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INSTITUTI BOTANICI PATAVINI ADJUTORIBUS

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PRÆMONITUS

Magister noster P. A. SACCARDO, dum in gravissimum laborem *Sylloges fungorum omnium* continuandæ totis viribus assidue incumbit, additamenta jam copiosa ad volumina edita colligere et ordinare, temporis defectu, in præsentī omnino vetitus est.

Qua de re consilium nobis benevole dedit hortatusque est sollicite, ut laborem istum aggredieremur. Propositum mox et libenter exsequi statuimus. Compertum est enim omnibus, scientiam mycologicam quotidie novis plurimisque inventis continuo augeri; quo factum est, ut *Sylloges* supplementum studiosis perutile et pergratum sine dubio foret.

Nobis vero hic labor multo facilior et, ut speramus, perfectior factus est ex eo quod bibliotheca mycologica Magistri nostri semper patuit nec umquam ejusdem defuit auxilium.

Supplementum hoc omnino redactum est, et quod ad methodum et quod ad typos attinet, ad normam *Sylloges*; ita ut vera hujus operis pars seu continuatio habendum sit.

Diagnoses ex opusculis, operibus, annalibus, diariis excerpimus et, latino semper idiomate redactas, ad genera et sectio-

nes *Sylloges* reduximus. Subinde diagnoses originales fungorum ineditorum attulimus.

Fortuna, quæ *Syllogi* Saccardianæ hucusque merito arrisit, Additamentis nostris sit quoque benigna! ¹⁾

A. N. BERLESE

P. VOGLINO

1) Numeri specierum *Syllogi* addendarum, in paginae dextero margine, progressionem in unaquaque cohorte ab ultimo numero *Sylloges* continuam designant. Numeri vero in margine lævo, asterisco aucti, indicant locum systematicum, quo species inserendæ sunt. Quod ad species jam in *Sylloge* recensitas, quæ vero in *Additamentis* repetitæ sunt ut novis notis vel emendationibus augeantur, numeri iidem ac in *Sylloge* adiecti sunt.

Summa specierum descriptarum.

Pyrenomycetæ	in <i>Sylloge</i> n. 6180;	in <i>Additamentis</i> n. 1384;	Tot. 7564
Sphærospideæ	» » 3655	» » 423	» 4078
Melanconieæ	» » 557	» » 49	» 606
Hyphomycetæ	» » 3583	» » 81	» 3664

PYRENOMYCETEÆ FR. em. DE NOT.

Fam. 1. *Perisporiaceæ* FR.

Subfam. 1. *Erysipheæ* LÉV.

Sect. 1. *Amerosporæ*. Sacc.

SPHÆROTHECA Lév. — Sacc. Syll. I, pag. 3.

- *1. **Sphærotheca lanestrís** Harkn. New Calif. Fungi p. 20. — Myc. 6181
celio denso, persistente, arachnoideo, brunneo-flaveolo; cæspitulis $\frac{1}{2}$ mm. diam., demum confluentibus, strato lanoso efformatis, quandoque totam paginam inferiorem occupantibus; peritheciis obscure brunneis, 90-108 μ . diam., tunica intus e cellulis magnis, refragentibus, hyalinis efformata; appendiculis a mycelio indistinctis; ascis ovatis, crasse tunicatis, sursum angustioribus, breviter pedicellatis, 75-102 μ . longis, octosporis; sporidiis ellipticis vel globosis granulosisque, 21 \approx 18. — *Status conidicus*: **Oidium ventricosum** Harkn. New Cal. Fung. pag. 20. Conidiis medio inflatis demum dolioliformibus, 34-38 \approx 20-22, nucleis numerosis, rotundis vel ellipsoideis, 5-6 \approx 2-4, (ex utraque extremitate conidiorum exeuntibus) repletis.

Hab. in ramulis vivis *Quercus agrifoliæ*, socio statu conidico, S. Francisco in California.

- *2. **Sphærotheca fugax** Penz. et Sacc. App. Fl. Mic. Monte Gen. p. 10. 6182
— Hypogena; mycelio tenui, pruinoso, persistente; peritheciis minutissimis, 100 μ . diam., nigris, sphæroideis, vix depressis, contextu parenchymatico; appendicibus hyalinis vel basi dilute fuliginis, simplicibus, continuis, longissimis, flexuosis; asco ovato, 80-90 \approx 75-80; sporidiis in asco octonis, ovoideis vel ellipticis, continuis, hyalinis, 20 \approx 12-14.

Hab. in pagina inferiore foliorum languidorum *Geranii silvatici* in Italia bor. (O. PENZIG). — Affinis *Sph. pruinosa*.

UNCINULA Lév. — Sacc. Syll. I, pag. 6.

- *13. **Uncinula australis** Speg. Fung. Guar. Pug. I, n. 167. — Epiphylla; 6183
mycelio arachnoideo, grisescenti-albo, late folia ambiente eis que arcte adnato, tenui, compactiusculo, non pulverulento; peritheciis densiuscule hinc inde sparsis, globoso-depressis, minutis, 100-120 μ .

diam. atris, glabris, membranaceo-coriacellis, contextu parenchymatico, parum perspicuo, fuligineo, basi 20-40 appendiculis radiantibus ornatis; appendicibus divaricatis, 100-130 \approx 4-7, utrinque gradatim attenuatis et levibus, medio sæpius incrassatulis ac minutissime densiusculeque granuloso-papillatis, apice sæpius semel plus minusve circumnatis (rarius rectis atque obtusatis) hyalinis; ascis et sporidiis non visis.

Hab. ad folia viva Myrtaceæ cujusdam prope Paraguay Brasil.

PLEOCHÆTA Sacc. et Speg. — Sacc. Syll. I, pag. 9.

1. **Pleochæta Curtisii** Sacc. et Speg. Fungi Arg. Pug. II, pag. 44, 32 et Sacc. Syll. II, p. 9, *Uncinula polychæta* Berk. et Curt. Grev. 1876, p. 159 et Ellis in Journ. of Myc. 1886, p. 43, *Uncinula Lynckii* Speg. Fungi Arg. Pug. II, p. 17, n. 54. — Perithecia 225-230 μ . diam., appendicibus numerosis circ. 200, hyalinis, continuis, apice attenuatis et incurvatis ornata et ascos circ. 50, bisporos continentia. — Cl. Ellis, in Journ. of Myc. l. c., speciei Spegazzinianæ et *Uncinule polychæte* B. et Curt. identitatem comprobavit, hinc nomen *Pleochæte Curtisii* servandum.

MICROSPHÆRA Lév. — Sacc. Syll. I, pag. 10.

- *13. **Microsphæra erineophila** Peck in Torr. Bot. Club. 1883, p. 75. 61 Mycelio arachnoideo, subpersistente; peritheciis 75-100 μ . diam., sæpe collapsis vel pezizæformibus; appendiculis 6-12 cir. diam.; perithecii longitudinem æquantibus vel minoribus, coloratis, apice pallidioribus bis, ter dichotome ramosis; ascis 4, sæpe 3-vel 5, octosporis; sporidiis 20-23 \approx 10-12, sæpe 1-2-nucleatis.

Hab. in foliis Fagi. *Erineo* invasis, Illinois, Amer. bor. (A. B. SEYMOUR).

- *15. **Microsphæra Nemopanthis** Peck in 38 Rep. St. Mus. pag. 102. 61 — Mycelio arachnoideo, parco, amphigeno; appendiculis raris, 5-12, longitudine diametrum perithecorum non vel vix æquantibus, in cymam 4-5-ies dichotomam desinentibus, coloratis, sæpe basi furcatis, ramulis extimis recurvis; ascis sæpe quatuor, 6-8-sporis.

Hab. in foliis vivis *Nemopanthis canadensis*, Karner Amer. bor. — Habitu *M. Berberidis* similis, sed ascis minus numerosis et appendiculis coloratis mox distinguenda.

26. **Microsphæra densissima** (Schw.) Peck 28 Rep. St. Mus. Sacc. 58 Syll. I, p. 15, Ell. et Mart. in Journ. of Myc. 1885, p. 101. — Pe-

perithecia nigra globosa, demum depressa, 120 μ . diam., appendicibus continuis, subhyalinis, bis dichotome ramosis, ramulis extimis curvatis, 95-120 \approx 7; asci sex, 6-8-spori; sporidia ovata, granuloso-nucleata, 21-25 \approx 12.

Hab. in foliis vivis *Quercus laurifoliæ*, Cove Springs Amer. bor.

ERYSIPHE Hedw. — Sacc. Syll. I, p. 15.

Erysiphe trina Harkn. New Calif. Fungi pag. 21. — Epiphylla; mycelio maculas orbiculares tegente, pruinoso, fugaci; peritheciis aggregatis, minutis, flavo-brunneis, 56-70 μ . diam., appendicibus nullis; ascis 3, subglobulosis, 32-38 μ . diam.; sporidiis 2, oblongo-ellipsoideis vel sæpe navicularibus, latis.

Hab. in foliis vivis *Quercus agrifoliæ* in California.

MONASCUS Van Tiegh. in Bull. Soc. Bot. 1884, p. 226. — (Etyim. *monos* unus et *ascus*). — Mycelium effusum septatum, album, ramosum. Hyphæ conidiferæ erectæ. Conidia solitaria vel catenulata. Perithecia globosa, pedicellata, membranacea, ramulis sursum incurvatis obvallata, monoasca. Asci polyspori vel 4-8-10-spori, globosi. Sporidia ovoidea vel globosa, minuta, hyalina.

1. **Monascus ruber** Van Tiegh. in Bull. Soc. Bot. Franc. 1884, pag. 227. — Mycelio repente, effuso, septato, pseudo-dichotome ramoso; hyphis fertilibus conidia catenulata sustinentibus; peritheciis breve pedicellatis, rufo-brunneis, minutis, 40-50 μ . diam. spheroides; pedicellis hyphâ crassioribus, bi-tri-septatis, verticillum ramulorum, apice incurvatorum, ad septum secundum insertum gerentibus, ramulis perithecium circum circa amplectentibus; asco globoso, tunica crassa prædito, breviter pedicellato, polysporo (vel quandoque 4-8-10-sporo et tum 11-16 μ . diam.); sporidiis ovoideis, continuis, 7-8 \approx 4-5, hyalinis.

Hab. in residuis Solani tuberosi, Paris Galliæ.

2. **Monascus mucoroides** Van Tiegh. in Bull. Soc. Bot. Fr. 1884, p. 229. — A præcedente differt præcipue hyphis conidiferis brevioribus crassioribusque, peritheciis longius pedicellatis, majoribus, 60-70 μ . diam., pedunculo pluriseptato et sporidiis spheroides, 8 μ . diam.

Hab. in..... Paris Galliæ.

Sect. 2. Scolecosporæ Sacc.

HYALODERMA Speg. Fung. Guar. Pug. I, n. 171 (Etym. a *hyalos* hyalinus et *derma* pellis). — Mycelium biogenum, tenue, dematiatum. Perithecia minutissima, globosa, astoma, deorsum merenchymatico-radiantia, persistentia, fusca, sursum anhyista, mucedinea, hyalina, mox fatiscientia, glabra. Asci obovati, octospori, aparaphysati. Sporidia acicularia, pluriseptata, hyalina.

1. **Hyaloderma imperspicuum** Speg. Fungi Guar. Pug. I, n. 171. — 618
Hypophyllum, rarius epiphyllum; mycelio tenuissimo vix perspicuo, arete epidermide foliorum adnato, mucedineo-fibroso, atro, radiante, plagulas fuscas hinc inde efficiente; peritheciis in plagulis laxè gregariis, minutissimis, 60-80 μ . diam., globosis, astomis, fuscidulis, postice membranaceis, persistentibus, contextu merenchymatico, radiante, antice anhyistis, hyalinis, fatiscientibus; ascis paucis, vix 8-12, obovatis, sursum late rotundatis ac crassissime tunicatis, deorsum attenuatis, breviter noduloseque stipitatis, 40 \approx 45 \approx 12-18, octosporis, aparaphysatis; sporidiis fusoideo-acicularibus, utrinque acutiusculis, 30-38 \approx 2-2,5, 4-septatis, ad septa non vel vix constrictis, loculo secundo supero crassiore, hyalinis.

Hab. ad folia viva Sapindacearum, Solanacearum etc. in silvis prope Guarapí Bras. — Species sæpius in consortio *Meliolarum* vel *Dimerosporiorum*, an potius parasitica?

Subfam. 2. Perisporiæ Sacc.

Sect. 1. Hyalospore. Sacc.

EUROTIIUM Link. — Sacc. Syll. I, p. 25.

4. **Eurotium lateritium** Mont. Sacc. Syll. I, p. 26, Bacc. et Avetta 104
Contr. Stud. Myc. roman. p. 5. — Perithecia celluloso-membranacea, lutea dein ochracea; floccis dense contextis, lanæformibus, luteo-aurantiacis immersa vel interdum fere denudata, 100-120 μ . lat.; asci globosi vel elliptici, 16 \approx 12, evanescentes, 8-spori; sporidia sphaeroideo-polygona vel biconvexa, lutea, 7 \approx 5, episporio crasso.

Hab. in foliis siccis Eucalypti in herbario Horti botanici Romani.

17. **Eurotium creatinum** Nyl. Anal. Myc. in Bidrag till Finlands 117
Nat. Etn. Stat. 4, h. 1858-59, Sacc. Syll. I, pag. 28, Karst. Rev.

Mon. p. 90. — Peritheciis primo albis, dein nigricantibus et nigris, parvis 200-300 μ . lat.; sporidiis sphæroideis, 10-15 μ . diam., hyalinis; hyphis albis, tenuiter effusis, parum articulatis vel saepe spatia longo inarticulatis, 22 μ . crassis.

Hab. supra carnem, Helsingfors Fennicæ.

MYRIOCOCCUM Fr. — Sacc. Syll. I, pag. 29.

1. **Myriococcum sparsum** Harkn. Californ. Fungi pag. 22. — Peri- 6190
theiciis sparsis, luteo-brunneis, 170-180 μ . diam., subiculo albo, parco cinctis; sporidiis numerosis, inæqualiter ellipsoideis, hyalinis, utrinque apiculatis, nucleo crasso præditis, 7-9 \times 4-6.

Hab. in truncis emortuis Aceris macrophylli inter corticem et lignum, Sunol Californiæ.

LASIOBOTRYS Kunze. — Sacc. Syll. I, pag. 29.

1. **Lasiobotrys affinis** Harkness New Calif. Fungi pag. 22. — Hy- 6191
pophylla, nigra, circulariter aggregata, depressa, hyphis radiantibus, continuis cincta; acervulis 2-6 mm. diam.; peritheciis reticulatis, brunneis, globosis, 70-100 μ . diam.; ascis breviter stipitatis, subcylindraceis, 60-70 \times 12-14; sporidiis fusoides, flavo-brunneis, uniseptatis, septo in parte majori, 15-17 \times 6-7.

Hab. in foliis vivis Loniceræ hispidulæ, Tamalpais in California.

Sect. 2. Phæosporæ Sacc.

CHÆTOMIDIUM Zopf. — Sacc. Syll. I, pag. 30.

*1. **Chætomidium Pircuniæ** Bacc. et Avett. Contr. Stud. Myc. roman. 6192
pag. 5, t. XVI, f. 1. — Peritheciis membranaceis, globosis, superficialibus, astomis, ochraceis, denique (ob sporidia atra inclusa) nigricantibus, undique pilis albis, longissimis, ramosis, vestitis, circulariter dehiscentibus, 330 μ . lat.; ascis cylindricis, 8-sporis, brevissime stipitatis, cito evanidis, aparaphysatis, 100 \times 18; sporidiis atris, ovoideis vel ellipticis, continuis, uno tantum apice appendicula hyalina, lenticulari præditis.

Hab. in trunco putrescente Pircuniæ dioicæ in Horto Panisperna, Roma Italiæ.

Sect. 3. Didymosporæ Sacc.

ASTERINA Lév. — Sacc. Syll. I, p. 39.

*6. **Asterina microthyrioides** Wint. in Hedw. 1885. — Subiculo nul- 6193

lo; peritheciis hypophyllis, sparsis vel laxe gregariis, rarius paucis densius aggregatis confluentibusque, depresso orbicularibus vel scutellatis, minutissimis, atris, rugulosis, opacis, centro subpapillatis, membranaceis, sub microscopio margine radiato-fimbriatis, fuscis, centro dilutioribus, fere ostiolatis, 300 μ . circ. latis; ascis ovatis vel elliptico-subclavatis, breve pedicellatis, 8-sporis, 40-50 \approx 18-21; sporidiis conglobatis, lanceolatis, utrinque anguste rotundatis, medio uniseptatis, non constrictis, hyalinis, tandem fuscidulis, 19 \approx 5.

Hab. ad folia subviva Eucalypti pilularis var. acmenoidis in Australia (MÜLLER).

- *7. **Asterina crustacea** Cooke in Grevillea XIV, p. 13. — Amphigena, crustacea, atra; peritheciis applanatis, in maculis orbicularibus confluentibus; margine radiato-fimbriato, arete adnato; ascis obovato-piriformibus, octosporis; sporidiis ellipticis, uniseptatis, medio constrictis, fuscis, 32-35 \approx 16-18.

Hab. in foliis emortuis Rhododendri prope Java (Dr. TH. ANDERSON).

- *8. **Asterina interrupta** Winter Exot. Pilze in Flora 1884, pag. 6. — Mycelio effuso, maculas rotundatas seu irregulares, 1½-7 mm. diam., demum sæpe confluentes, fusco-cinereas vel brunneas formante, ex hyphis ramosis, anastomosantibus, fuscis, passim tumidulis contexto; hyphis mycelicis septis inter se binis, proximatis præditis; peritheciis primo in centro macularum dispositis, demum in tota macula sparsis, planis, rotundatis, ambitu irregulariter fimbriatis, centro dilapsis, fusco-atris, 120-160 μ . diam.; ascis oblongis, apice late rotundatis, basi in stipitem brevem attenuatis, 8-sporis, 45-52 \approx 17-24; sporidiis conglobatis, ellipticis, fuscis, medio fascia hyalina, transversa præditis, 14-16 \approx 7-9.

Hab. in foliis languescentibus Leucospermi conocarpi et Leucadendri sp. in Promontorio Bonæ Spei Africae austr. (MAC-OWAN).

- *9. **Asterina Baileyi** Berk. et Br. IV. List. Fung. Brisb. Queesl. n. 269. — Mycelio fusco, nodoso-ramoso, maculas rufo-brunneas in foliis efformante; peritheciis minutis, rugosis, fuscis, fibrillis paucis adherentibus; ascis clavatis, 8-sporis; sporidiis distichis, ovoideo-oblongis, uniseptatis, septo constrictis, brunneis 37 μ . longis.

Hab. in foliis plantæ ignotæ, Brisbane.

- *13. **Asterina Licania** Cooke in Grevillea vol. XII, pag. 85. — Epiphylla; maculis suborbicularibus, tenuibus, 1 cm. diam., atro-fuli-

gineis; peritheciis appianatis, orbicularibus, margine hyphis fuscis, intertextis ornatis; ascis amplis, saccatis; sporidiis ellipticis, obtusis, medio constrictis, uniseptatis, atro-fuscis, 40-45 \times 22-26.

Hab. in foliis *Licania*, S. Carlos (SPRUCE).

- *17. **Asterina infuscans** Wint. in Hedw. 1885. — Mycelio ex hyphis 6198
ramosissimis, torulosis flexuosisque, septatis, fuscis, densissime intertextis constante, foliorum paginam inferiorem longe lateque obducente et infuscante; peritheciis gregariis sparsisque, minutissimis, depresso hemisphæricis, centro diffractis et demum evanescentibus, fusco-atris, ambitu fibrillosis, 95-130 μ . latis; ascis oblongis seu e basi parum ventricosis, sursum ellipticis, fere sessilibus vel in stipitem brevem attenuatis, 8-sporis, 30-35 \times 9-11; sporidiis conglobatis, clavatis, 2-cellularibus, medio non constrictis, hyalinis, 8-9,5 \times 2,5-3.

Hab. ad folia subviva *Euclea* undulatae ad latera montis Boschberg prope Somerset-East, Promont. Bonæ Spei (MAC-OWAN).

- *18. **Asterina Gaultheriæ** Curtis herb. Martin in Journ. of Myc. 1885, 6199
p. 134. — Peritheciis brunneo-nigris, appianatis, centro leniter elevatis, hypophyllis, sparsis, 170-250 μ . diam., mycelio parco, brunneo, ramoso cinctis; ascis ovatis, 22-25 \times 13-16; sporidiis hyalinis, obovatis, uniseptatis, cellula superiore latiore, 9 \times 3.

Hab. in foliis vivis *Gaultheriæ* procumbentis, Newton Americæ borealis.

- *19. **Asterina patelloides** E. et M. in Journ. of Myc. 1885, p. 136, 6200
Asterina erysiphoides E. et M. — Ell. N. Amer. Fungi n. 1359. — Peritheciis brunneis, orbicularibus, appianatis, centro depressis, hypophyllis, 275-300 μ . diam., mycelio radiante, albo, parco cinctis; ascis ovato-oblongis, 8-sporis, 36 \times 15; sporidiis, obovatis, 1-septatis, binucleatis, hyalinis, 15 \times 6.

Hab. in foliis vivis *Quercus laurifolia*, Florida Americæ borealis.

- *22. **Asterina subcyanea** Ellis New Spec. North Am. Fungi in 6201
Amer. Nat. 1884, pag. 1147. — Peritheciis hypophyllis, superficialibus, depressis convexisque, 250-350 μ . diam. parenchymaticis; cellulis subsphæroideis, 5-7 μ . diam., cyaneo-viridibus, extimis moniliformibus, circum circa basin peritheci in membranam tenuem septatam, superficiem foliorum adpressam contextis; ostiis papilliformibus, collapsis, siccis poro pertusis; ascis utrinque leniter acutis, sessilibus, 75 \times 15; sporidiis distichis, oblongo-clavatis, uniseptatis, 20 \times 5-7, hyalinis.

Hab. in foliis vivis *Quercus laurifoliæ*, Cove Springs in America boreali.

- *23. **Asterina lepidigena** Ell. New North Am. Fung. in Amer. Nat. 1884, pag. 1148. — Peritheciis atris, subglobosis vel oblongo-applanatis, tenuibus et fragilibus, 200-300 μ . diam., mycelio hyalino, parco insidentibus; ascis ovatis vel oblongis, 8-sporis, 30-42 \approx 12-15; sporidiis obovatis, hyalinis, biseptatis, 12 \approx 4. 620

Hab. in foliis vivis *Andromedæ ferruginæ*, Cove Springs Americæ borealis.

- *24. **Asterina pustulata** Ellis New North Am. Fungi in Amer. Nat. 1884, pag. 1148. — Peritheciis imperfecte evolutis, e nucleo centrali, celluloso, compacto formatis; cellulis subglobosis, brunneis, in hyphas ramosas, brunneas, fimbriatas desinentibus et membranam circularem, $1\frac{1}{2}$ - $3\frac{1}{4}$ mm. diam., in foliorum superficie formantibus; ascis subglobosis, 8-sporis, 55 μ . diam.; sporidiis obovatis, hyalinis, uniseptatis, 30-40 \approx 10-12. 620

Hab. in foliis *Quercus laurifoliæ*, Cove Springs Amer. bor.

- *25. **Asterina intricata** Ell. et Mart. Amer. Nat. Bot. 1884, p. 69. — Peritheciis sparsis, $1\frac{1}{2}$ - $3\frac{1}{4}$ mm. diam., suborbicularibus, applanatis, nigris, contextu parenchymatico, atro; ascis copiosis, obovatis, sessilibus, 15 \approx 10; sporidiis subtilibus, clavato-oblongis, hyalinis, mucro obvolutis, circiter 9 \approx 3, endochromate bipartito. 620

Hab. in pagina inferiore foliorum viventium *Quercus arenariæ*, New Florida Amer. bor. — Peritheciis latis, applanatis, sparsis, mycelio nullo mox dignoscenda.

- *26. **Asterina discoidea** Ell. New North Am. Fung. in Am. Nat. 1884, pag. 1148. — Peritheciis hypophyllis, orbicularibus, leniter centro depressis, olivaceis, tenuibus, $1\frac{1}{2}$ - $3\frac{1}{4}$ mm. diam., margine indistincte reticulato; ascis obovatis vel globosis, 30-40 \approx 30-35; sporidiis conglomeratis, clavato-oblongis vel piriformibus, uniseptatis, 12-16 \approx 4-5. 620

Hab. in foliis vivis *Quercus laurifoliæ*, Cove Springs in America boreali.

- *28. **Asterina Dodonæi** Pass. in Erb. Critt. Ital. Ser. II, n. 1460. — Acervulis orbicularibus, sparsis fumosis; peritheciis membranaceis, pluribus, fuscis ex hyphis intricatis, fuliginis vel (junioribus?) hyalinis, crebre articulatis, tandem quandoque exaridis («?») formatis; ascis, plurimis, parvulis, oblongis, 8-sporis; sporidiis distichis, ovato-oblongis, medio septatis et constrictis, loculo altero angustiore, 12,5 \approx 5, hyalinis. 620

Hab. in caulibus languidis *Epilobii Dodonæi* prope *Parma* Italiae borealis.

*29. **Asterina carnea** Ell. et Mart. in Amer. Nat. Bot. 1883, p. 1285. 6207

— Hypophylla; mycelio tenui, brunneo-nigro, subcrustaceo, hyphis subanastomosantibus, brunneis, adpressis, sæpissime marginem foliorum occupantibus et maculas orbiculares, circiter $\frac{1}{2}$ cm. diam. efformantibus composito; peritheciis minutis, 55-75 μ . diam., mycelio insidentibus, stipatis, globosis, astomis, sub lente carneis atque majore amplificatione luteolis; ascis 4-8, obovatis, sessilibus, 30-40 \approx 22-35, octosporis; sporidiis ovatis, bicellularibus, 16-17 \approx 7-8, mucro obvolutis.

Hab. in foliis vivis *Perseæ palustris*, New Florida Americae borealis.

*32. **Asterina stomatophora** Ell. et Mart. in Journ. of myc. 1885, p. 6208

98. — Peritheciis lenticularibus, sparsis, minutis, 170-185 μ . diam., mycelio reticulato insidentibus, centro pertusis, parenchymatice contextis; ascis oblongis vel oblongo-ovoideis, 30-35 \approx 6-8, stipitatis, basi abrupte contractis, aparaphysatis; sporidiis distichis, uniseptatis, subconstrictis, basi acutis, 7-12 \approx 2,5-3, hyalinis.

Hab. in foliis vivis *Quercus laurifoliae* in Amer. bor.

*33. **Asterina peribebuyensis** Speg. Fungi Guar. Pug. I, n. 173. — 6209

Epiphylla; mycelio late diffuso, folium totum sæpe obtegente, atro, tenui, mucedineo-crustaceo, e cellulis ellipsoideis vel e mutua pressione irregularibus, mediocribus (articulis hypharum), crasse 2-guttulatis, 5-7 \approx 3-4, olivaceis composito, arcte foliorum epidermidi adnato; peritheciis dense sparsis vel hinc inde plus minusve aggregatis, globosis, minutis, 80-100, astomis, atris, glabris, tenui-membranaceis, contextu parenchymatico, parum distincto, olivaceo; ascis paucis, ovatis vel obclavatis, antice truncato-rotundatis atque crassissime tunicatis, tunica 6-8 μ . crassa, postice abrupte attenuato-coaretatis, minute noduloseque stipitatis, 26-28 \approx 10-12, octosporis, aparaphysatis; sporidiis polystichis, elongato-ellipsoideis, 12-14 \approx 3, rectis vel inæquilateralibus, medio uniseptatis, vix constrictis, loculis centro 1-septatis, non constrictis, supero crassiore brevioraque, hyalinis.

Hab. ad folia viva arborum in silva montana, Naranjo Cordillera de Peribebuy Brasil. — Species, ut videtur, vulgatissima sæpius in consortio *Meliolarum* vel *Dimerosporiorum* et facillime in iis parasitica.

*36. **Asterina nuda** Peck in 38 Rep. St. Mus. pag. 102, tab. 2, fig. 6210

11-15. — Peritheciis numerosis, gregariis vel stipatis, superficialibus et nudis vel basi filamentis brevibus, minutis parce præditis, globosis vel subdepressis, 80-100 μ . diam. atris; ascis oblongis vel subcylindraceis, 40 \approx 12; sporidiis stipatis aut distichis, oblongis, uniseptatis, 10-12 \approx 5-6.

Hab. in foliis emortuis Abietis balsamæ in montibus Adirondack Amer. bor.

- *37. **Asterina Pearsoni** E. et E. Journ. of Myc. 1885. — Peritheciis 621
minutis 100 μ . crass., superficialibus, sursum inconspicue perforatis, parenchymaticis, mycelio subradiato, parce præditis; ascis sessilibus oblongis obtusis, aparaphysatis, 40 \approx 15; sporidiis distichis, clavato-oblongis, granulosis, 1-septatis, medio constrictis, 15-20 \approx 3,5-4,5, basi acutis, sursum obtusis, hyalinis.

Hab. in sarmentis putridis Rubi culti, Vineland Amer. bor. (PEARSON).

- *39. **Asterina delitescens** E. et Mart. in Amer. Nat. 1883, pag. 1281. 621
— Mycelio tenui, nigro, epiphylo, maculas orbiculares, minutas, 2-4 mm. diam., efformante, hyphis ramosis, copiosis, adpressis composito; peritheciis mycelio insidentibus, applanatis, stipatis, 75-100 μ . diam., contextu radiatim celluloso; ascis 30-35 \approx 18-22, obovatis vel subglobosis; sporidiis pallide luteis, bicellularibus, ova-to-oblongis, 15-18 \approx 6-7.

Hab. in foliis vivis Perseæ palustris, New Florida Amer. bor. — Habitu *A. pelliculosæ* proxima, a qua distinguitur sporidiis minus constrictis characteribusque mycelii.

- *42. **Asterina tenella** Cooke in Grevillea XIII, p. 67. — Epiphylla, 621
effusa, tenuis, atra; peritheciis minutis, 220 μ . diam.; applanatis, cum mycelio repente, brunneo immixtis; ascis saccatis, 4-8-sporis; sporidiis (in ascis octosporis) 28-30 \approx 12-14, (in ascis tetrasporis), 40 \approx 22, pallide fuscis.

Hab. in foliis Perseæ caroliniensis in Carolina America borealis (RAVENEL).

- *46. **Asterina quercigena** (Berk.) Cooke in Grevillea XIII, pag. 67. 621
Dothidea quercina Berk. in Herb. — Epiphylla vel amphigena; peritheciis orbicularibus, 1-2 mm. diam., convexis, rugosis, atris, opacis, margine radiante, fibroso; ascis clavatis; sporidiis ellipticis, continuis (immaturis?), hyalinis, 10 \approx 4.

Hab. in foliis Quercuum, Sikkim Indiæ or.

- *47. **Asterina mycoproides** Sacc. et Berl. Rev. Myc. 1885, tab. LIV, 621
fig. 1. — Amphigena; peritheciis fibrillis repentibus, ramosis, atris,

nodulosis, septatis insidentibus, scutiformibus, planis, fere $\frac{1}{2}$ mm. diam., ambitu circulari vel sæpe anguloso, radiato-contextis; ascis obovatis, crasse tunicatis, 50-60 \approx 20-22, octosporis; sporidiis distichis vel subtristichis, ovoideis, continuis, subhyalinis, 26-28 \approx 10-12.

Hab. in foliis vivis..... Santos in Brasilia. — Perithecium vere dimidiatum, hinc certe ad *Microthyriaceas* referenda species. Inquirendum an et pleræque *Asterinae* species aptius inter *Microthyriaceas* locandæ sint.

- * 48. **Asterina maculæformis** (Berk.) Cooke in Grevillea XIII, p. 66, 6216
Dothidea maculæformis Berk. in herb. — Epiphylla, atra, opaca, orbicularis, maculæformis; stromate discoideo, maculis piceis, orbicularibus insidente, fibrillis radiantibus cinto; ascis ovoideis, 20 \approx 15; sporidiis ellipticis, continuis (immaturis?), hyalinis, 5 \approx 3.

Hab. in foliis Drymidis, Valparaiso in Chile. — Habitu *A. compactæ*, sed ceterum diversa.

48. **Asterina clavuligera** Cooke. — Sacc. Syll. I, n. 48, Martin in Journ. 6217
of Myc. 1885, pag. 145. — Asci ovati, 30 \approx 18; sporidia hyalina, ovalia vel obovata, 1-septata, 21 \approx 6.

Hab. in foliis Vaccinii et Andromedæ, Florida Americæ borealis.

- * 49. **Asterina concentrica** Cooke in Grevillea XIV, p. 13. — Ma- 6218
culis atro-fuscis, orbicularibus vel confluentibus; peritheciis minutis, applanatis, concentricè dispositis, margine radiante; ascis clavatis, octosporis; sporidiis ellipticis, continuis, (?) hyalinis, 8 \approx 3, (valde immaturis visis).

Hab. in culmis Sacchari in India.

- * 51. **Asterina minor** E. et Ev. in Journ. of Myc. 1886, pag. 42. — 6219
Peritheciis applanatis, superficialibus, orbicularibus, $\frac{1}{4}$ mm. diam., atris; mycelio obsoleto; ascis obovatis, 25-30 \approx 12-15; sporidiis stipatis, oblongo-ovatis, 1-septatis, luteolis, 10-13 \approx 3-3 $\frac{1}{2}$ (demum brunneis?).

Hab. in ramulis emortuis, Huston, Texas Amer. bor. (H. W. RAVENEL). — Differt ab *A. ramulari* peritheciis et sporidiis minoribus.

- * 54. **Asterina Bambusella** Speg. Fungi Guar. Pug. I, n. 172. — Epi- 6220
phylla; mycelio nullo vel vix e fibris paucis crassis, brevibus, fuliginis, intricato-ramosis, composito; peritheciis hinc inde in plagulas lineares, strictas ac breves, 2-5 mm. longas, 0,2-0,5 mm. latas dispositis, dense constipatis, basi subconfluentibus et (an vere

confluentibus? tandem *Dothideaceis*?) globosis, 180-220 μ . diam., atris, glabris, rugulosis, astomis (?), sed per ætatem lacero-dehiscentibus, membranaceo-coriacellis, contextu crassiusculo, obscure parenchymatico-sinuoso, olivaceo-fuligineo; ascis cylindræis vel subcylindræo-clavatis, apice subtruncato-rotundatis crassiusculeque tunicatis, deorsum attenuatis breviterque noduloso-stipitatis, 65-75 \approx 8, paraphysatis, octosporis; sporidiis distichis vel oblique monostichis, elongato-ellipticis, 16-20 \approx 4-5, rectis vel leniter inæquilateralibus, centro 1-septato-constrictis, loculis crasse 1-2-guttulatis ac medio subcoarctatis, supero obtusiore crassioreque, infero graciliore acutioreque, per ætatem 3-septatis, hyalinis.

Hab. ad folia viva *Bambusaceæ* cujusdam in uliginosis silvæ Naranjo Bras.

- *62. **Asterina Celastris** E. et K. in Journ. of myc. 1885, pag. 2. — 6221
Peritheciis hypophyllis, gregariis vel sparsis, convexis, orbicularibus, $\frac{1}{4}$ mm. diam., atris, basi mycelio brunneo, radiato, parvo cinctis; ascis oblongo-ovoideis, 12-15 \approx 6-7, immaturis protoplasmate granuloso faretis.

Hab. in foliis vivis *Celastris* scandentis, Manhattan Kansas Americæ borealis.

DIMEROSPORIUM Fuck. — Sacc. Syll. I, p. 51.

- *1. **Dimerosporium eriophilum** Wint. Cont. Flor. myc. Lus. Ser. VI, 6222
p. 9. — Peritheciis hypophyllis, dense sparsis, globosis, minutissimis, membranaceis, fusco-atris, mycelio repente, ramoso, articulato, fusco insidentibus, superficialibus, astomis, 60-80 μ . diam.; ascis fasciculatis, aparaphysatis, e basi oblonga sursum parum attenuatis, sessilibus, 8-sporis, 30-35 \approx 7; sporidiis subdistichis, ellipsoideis, medio septatis et profunde constrictis, pallidissime fuscidulis. 7 \approx 3.

Hab. ad folia subviva *Quercus cocciferæ* in Campo Redondo prope Braganca in Lusitania (MOLLER).

- *2. **Dimerosporium Osyridis** Winter Ex. Pilze in Flora 1884, p. 7. 6223
— Hyphis mycelicis fuscis, ramosis, radiantibus, maculas atras, rotundatas seu irregulares, usque 2 mm. latas formantes; peritheciis gregariis, depresso globosis, rugulosis, glabris, atris, sub microscopio fere impellucidis, fascis, 150-210 μ . diam.; ascis cylindræo-clavatis, brevissime stipitatis, 8-sporis, 42-52 \approx 10-12; sporidiis oblique distichis, oblongis, bicellularibus, hyalinis, 9-12 \approx 4-5, ad septum constrictis; paraphysibus filiformibus, ascos æquantibus.

Hab. ad folia viva *Osyridis compressæ* in Promontorio Bonæ Spei Afr. austr. (MAC-OWAN).

- *3. **Dimerosporium eutrichum** Sacc. et Berl. in Rev. Myc. 1885, tab. 6224
LIV, fig. 4. — Peritheciis subiculo atro insidentibus, sphaeroideis, vix papillatis, atris, 140-150 μ . diam.; hyphis repentibus, ramosis, 8 μ . crassis, fuliginosis, septatis, ramulis brevibus, obovatis, 1-septatis, fere sporomorphis; ascis rosulatis, cylindræo-clavatis, apice rotundatis, sessilibus, 36-43 \approx 8-10, octosporis; sporidiis mono-vel distichis, oblongis, didymis, loculo superiore vix crassiore, apice rotundato, infero acutiore, ad septum leniter constrictis, 11-13 \approx 3, hyalinis.

Hab. in pagina inferiore foliorum..... Santos in Brasilia. — Sporidia subinde (spurie?) triseptata visa.

- *4. **Dimerosporium verrucicolum** Wint. in Hedw. 1885, p. 24. — Effu- 6225
sum, hypophyllum, fuliginosum; mycelio ex hyphis ramosissimis, torulosis flexuosisque, dense radiatimque contexto; peritheciis gregariis, globosis, tenuissime membranaceis, fuscis, verticem versus obscurioribus, in centro irregulari-rotundate dehiscentibus, 105 \approx 120 μ . lat.; ascis late oblongis, sursum parum longeque, deorsum stipiteforme attenuatis, 8-sporis, 35-44 \approx 12-14; sporidiis conglobatis, oblongo-subfusiformibus, medio uniseptatis, vix constrictis, hyalinis, 16-17,5 \approx 3,5-4.

Hab. ad folia viva *Oleæ verrucosæ* in monte Boschberg, Promont. Bonæ Spei (MAC-OWAN).

- *5. **Dimerosporium melioides** (B. et C.) Ellis in Journ. of Myc. 1885, 195
p. 146. *Asterina melioides* B. et C. Grev. 4, p. 10, Sacc. Syll. I, p. 46, *Meliola Baccharidis*, B. et Rav. Grev. 4, pag. 158, — Perithecia brunneo-atra, globosa, rugulosa, astoma, epiphylla, stipata, 80-95 μ . diam., hyphis radiantibus, brunneis insidentia; asci cylindrico-clavati, 8-spori, 33-40 \approx 10-13; sporidia hyalina, subcymbiformia, 1-septata, 1-2-seriata.

- *7. **Dimerosporium guarapiense** Speg. Fungi Guar. Pug. I, n. 169. 6226
— Epiphyllum; mycelio tenuissimo, epidermidi foliorum arcuato adnato, maculas atras, subparvulas, 1-3 mm. diam., laxiuscule sparsas, sæpe tamen confluentes ac fere totum folium occupantes efformante, e fibris gracilibus, 2-2,5 μ . crass. ramosis, dense intricato-intertextis, hyphopodiis destitutis, substantiâ mucosâ connexis, obscure septatis, brunneo-fuliginosis composito; peritheciis globosis, minutissimis, 80-150 μ . diam. hinc inde per mycelium laxè confertis, atris, astomis, pilis paucis, sæpius 8 vel 10, minutis, 30-

40 \approx 3-4,5, apice incurvis vel subcircinatis, non septatis, pallide olivaceis, fuliginis ornatis, membranaceis, contextu parenchymatico, olivaceo-pellucido, parum perspicuo; ascis teretibus vel obclavatis, antice truncato-rotundatis, postice subabrupte attenuato-coarctatis, brevissime noduloseque stipitatis, 28-40 \approx 9-12, octosporis, aparaphysatis; sporidiis distichis, primo continuis dein centro 1-septato-constrictis, rectis vel subinæquilateralibus, utrinque obtusissime rotundatis, 10-13 \approx 2,5-5, loculis crasse 2-guttulatis, medio non vel leniter coarctatulis, subinæqualibus vel infero nonnihil graciliore ac longiore, in juventute hyalinis, dein e chlorino pallide olivaceis.

Hab. ad folia viva arborum, Euphorbiacearum et Solanacearum in silvis prope Guarapi et Mbatobi Brasil. — Sporidia in hac specie et in *D. tropicali* facile per ætatem 3-septata sunt et tum ad genus *Asterina* pertinerent.

- *8. **Dimerosporium tropicale** Speng. Fungi Guar. I, p. 168. — 6227
Epi- vel hypophyllum, sæpissime in consortio (an parasiticum?) *Meliolarum*, subcrustaceum, tenuissimum, epidermidi foliorum arcte adratum, e fibris dense ramoso-intricatis, gracilibus, 5-6 μ . crassis, confertiuscule septatis, fuliginis, hyphopodiis destitutis, substantiâ mucosâ connexis compositum; peritheciis globosis, minutis, 70-100 μ . diam., astomis (?), atris, superficialibus, glabris, tenui membranaceo-coriacellis, contextu parenchymatico, cellulis minutis, 3-3,5 μ . diam., composito, fuligineo donatis; ascis teretibus vel obclavatis, antice truncato-rotundatis, deorsum breviter et abrupte attenuato-stipitatis, 25-40 \approx 6-8, non vel parce paraphysatis, octosporis; sporidiis distichis, ellipsoideis vel subclavulatis, 11-12 \approx 3-3,5, utrinque obtusis, centro 1-septato-constrictis, loculis subinæqualibus vel infero nonnihil minore acutioreque, crasse 2-guttulatis, sæpius medio leniter coarctatis, hyalinis.

Hab. ad folia viva arborum in silvis subvirginis prope Guarapi Brasil.

- *9. **Dimerosporium Olei** Wint. in Hedw. 1885, p. 25. — 6228
Mycelio ex hyphis plus minus radiatim repentibus, irregulariter sed copiose ramosis, fusco-atris, septatis constante, maculas rotundatas vel irregulares, usque 5 mm. latas formante; peritheciis gregariis, rotundato-ellipticis, subdepressis, demum vertice collabascensibus irregulariterque diffractis, tuberculoso-rugosis, atris, 210-300 μ . diam.; ascis late ovatis, subpiriformibus v. globoso-ellipticis, fere sessilibus, 8-sporis, 65-85 \approx 42-52; sporidiis inordinatis, elliptico-

oblongis, didymis, medio profunde constrictis, utrinque late rotundatis, cellula inferiori parum angustiori, intense fuscis, 30-33 \approx 16-17.

Hab. ad folia viva Melastomacearum speciei cujusdam in Brasilia, prope S. Francisco (E. ULE).

- * 10. **Dimerosporium paurotrichum** Sacc. et Berl. in Rev. Myc. 1885, 6229 tab. LIV, fig. 2 sub *D. oligotricho*. — Peritheciis paginam superiorem foliorum occupantibus, hyphis dendritice ramosis insidentibus, radiato-contextis, globoso-depressis, vix $\frac{1}{3}$ mm. diam., atris, subsparis; ascis crasse tunicatis, amplis, ovatis, stipite nullo, 50-55 \approx 35, octosporis; sporidiis inordinate tristichis, ovoideis, uniseptatis, ad septum constrictis, mucro obvolutis, 35 \approx 18, pallidissime luteis.

Hab. in pagina superiore foliorum nondum emortuorum... Santos Bras. — Peritheciis leviusculis, mycelio parco nec maculoso, ascis sporidiisque paullo minoribus, nec non colore subhyalino nec intense fusco sporidiorum, a *D. Ulei* distinguitur.

- * 11. **Dimerosporium venturioides** Sacc. et Berl. in Rev. Myc. 1885, 6230 tab. LIV, f. 3. — Peritheciis globosis v. globoso-conicis, astomis, subiculo atro insertis, contextu laxo parenchymatico, ochraceo; ascis minutis, cylindraco-rotundatis, octosporis, brevissime pedicellatis, 40-15 \approx 7-9, apophysatis; sporidiis mono-vel distichis, oblongo-ovoides, uniseptatis, non constrictis, 10 \approx 3, brunneolis.

Hab. in pagina sup. Convulvulaceæ cujusdam, Santos Bras. — Adest intermixtum pycnidium: *Chætophoma venturioides*: peritheciis majoribus, atris, globosis, setis erectis, clavatis, a mycelio exorientibus cinctis; sporulis ovoideis, 8 \approx 4, bi-guttulatis, pallide luteis.

- * 12. **Dimerosporium? dubiosum** Speg. Fung. Guar. Pug. I. n. 170. 6231 — Epiphyllum; mycelio foliorum epidermidi arcte adnato ac maculas subdefinitas, ellipticas (longitudinales), parvulas, 1-3 \approx 0,5-1 mm., laxe hinc inde gregarias, rarissime confluentes efficiente; crustaceo-puberulo, atro, compactiusculo, e fibris longiusculis, dense ramoso-intertextis, subgracilibus, 4-5 μ . crassis, densiuscule septatis, testaceis composito; peritheciis in maculis dense 8-15-aggregatis, globosis, parvulis, 120-130 μ . diam., atris, astomis (?), pilis brevibus, 20-30 \approx 5-8, dense crasseque septatis, apice obtusis ac sæpe incurvis, testaceis vestitis, contextu indistincte spongiosocoriacello, rufo-fuligineo, subopaco; ascis cylindracois, 78-100 \approx 6-7, apice truncato-rotundatis et crassiuscule tunicatis perforatisque,

basi breviter attenuato-stipitatis, aparaphysatis, octosporis; sporidiis distichis vel oblique monostichis, elliptico-lanceolatis, utrinque obtusiusculis, medio 1-septatis, non vel vix constrictis, rectis vel subcurvulis, 18-20 \approx 3-4, loculis non vel minute 2-guttuligeris, supero sæpe subbreuiore crassioreque, hyalinis.

Hab. ad folia viva Bambusaceæ cujusdam in uliginosis, Pastoréo de Caà-guazù Brasil.

MELIOLA Fr. — Sacc. Syll. I, p. 60.

- * 2. **Meliola manca** E. et M. Amer. Nat. 1885, p. 1284 et in Journ. of Myc. 1885, p. 148. — Maculis orbicularibus, 1-2 mm. diam., sæpius epiphyllis, sparsis, subinde confluentibus; mycelio nigro, repente, ramoso, ramis oppositis, ramulis brevibus, obovatis, alternis; peritheciis nigris, subglobosis, papillatis, collapsis, appendicibus et hyphis erectis, nullis; ascis ovato-oblongis, sæpius bisporis; sporidiis oblongo-cylindraceis, brunneis, 3-septatis, ad septa constrictis, leniter curvulis, 35-45 \approx 12-15.

Hab. in foliis vivis Myricæ ceriferæ, Florida Americæ borealis.

- * 4. **Meliola Niessleana** Winter in Hedwigia 1885, p. 260. — Mycelio plagas amphigenas, subminutas, rotundatas vel angulato-irregulares, atras, opacas, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. latas formante; hyphis dense intertextis ramosis, repentibus, septatis, fuscis, hyphopodia plerumque alternantia, forma varia (rhomboidea, angulata, sæpe tuberculata etc.), stipitata, 21-26 (cum stipite) \approx 14-17, gerentibus, setis rigidis, erectis, atris, obtusis, integris obsitis; peritheciis parvis, superficialibus, globosis, verruculosis, atris, 240-260 μ . diam., basi setis rigidis, subactis, atris, divergentibus cinctis; ascis oblongis (vel subclavatis), in stipitem brevem, crassum attenuatis, 2-4-sporis, 87-100 \approx 26-32; sporidiis conglobatis, elongato-oblongis, utrinque attenuatis et rotundatis, semper inæquilateralibus vel curvulis, 3-septatis, badiis, ad septa perparum constrictis, 47-54 \approx 14-16.

Hab. in foliis vivis Rhododendri Chamæcisti pr. cauponam «Hinterhorn» faucium «Strub» Salisburgi Germ. (G. NIESSL).

- * 5. **Meliola guaranítica** Speg. Fungi Guar. Pug. I, n. 177. — Amphigena; mycelio tenui, compactiusculo, subvelutino, atro, plagulas subparvas, 3-8 mm. diam., hinc inde efficiente, ex hyphis sterilibus, repentibus, dense ramoso-intricatis, crassiusculis, 6-7 μ . crassis, flexuosis, fuliginis, hyphopodiis destitutis composito, hyphis conidiferis erectis, rectis, longiusculis, 200-250 \approx 5-6, apice inte-

gris acutisque, opacis, non septatis sublaxe vestito; peritheciis centro macularum insidentibus, a setulis conidiferis suboccultatis, globosis, 150-200 μ . diam., glabris, levibus, atris, coriaccello-membranaceis, contextu parenchymatico, pellucido, atro-olivaceo; ascis mox diffluentibus; sporidiis elliptico-elongatis, utrinque obtuse rotundatis, 40-45 \approx 14-18, 3-septatis, fuligineis, loculis duobus extimis pallidioribus.

Hab. ad folia viva arborum in silvis subvirgineis prope Guarapí Bras.

- *8. **Meliola cryptocarpa** Ell. et M. Amer. Nat. 1883, p. 1284, Journ. Myc. 1885, pag. 147. — Maculis sæpius epiphyllis, suborbicularibus vel quandoque confluentibus; mycelio pallide brunneo, repente, septato, irregulariter ramoso; conidiis oblongo-fusoideis, pallide brunneis, 3-4-septatis, 30-40 \approx 5-9, sursum acutis vel obtusis, basi in pedicellum breve, hyalinum desinentibus; setis erectis, copiosis, simplicibus, multiseptatis, nigris, apice acuto, pallidiori; peritheciis nigris, subglobosis, parcis, subinde sterilibus, 180-200 μ . diam., collapsis, basi appendicibus divergentibus, brunneis, septatis, setuliformibus, sursum non vel vix undulatis cinctis; ascis oblongo-ovoides, 8-sporis; sporidiis brunneis, oblongis vel clavato-oblongis, distichis, 3-5-septatis, 30-60 \approx 10-12. 6235

Hab. in foliis *Gordoniae Lasianthus*, Florida Amer. bor.

- *7. **Meliola coronata** Speg. Fungi Guar. Pug. I, n. 175. — Epiphylla; mycelio tenuissimo, effuso, plagulas fuscescenti-atras, parum perspicuas, sæpe confluentes, hinc inde efficiente, ex hyphis sterilibus, radiantibus, repentibus, tortuosis, septulatis, hyphopodiis capitatis, 20 \approx 10, alternatim ornatis, fuligineis composito, hyphis conidiferis destituto; peritheciis majusculis, globosis, 200-250 μ . diam., centro plagularum insidenti-aggregatis, in sicco cupulato-collapsis, crasse papillulosis, deorsum nudis, sursum pilis longiusculis, rectis, 60-80 \approx 5, fuligineis, apice integris et obtusis, 1-2-septatis laxè donatis, facillime deciduis, coriaceo-membranaceis, contextu obscure crasseque parenchymatico (cell. 10-13 μ . diam.), olivaceo-fuligineo; ascis ellipticis, utrinque obtuse rotundatis, 40 \approx 15, primo hyalinis, continuis, dein opace fuligineis, 4-septatis, loculis crassissime 1-guttatis. 6234

Hab. ad folia viva *Lucheæ divaricatae* in silvis subvirgineis prope Guarapí Bras.

- *9. **Meliola obesa** Speg. Fung. Guar. Pug. I, n. 179. — Epiphylla; 284
mycelio subcrustaceo, subfragili foliorum epidermide arcte adha-

rente, tenui, plagulas orbiculares, magnitudine varias, 1-5 mm. diam., atras, opacas efficiente, ex hyphis sterilibus, repentibus, dense intertexto-ramosis, muco conjunctis, hyphopodiis ovoideo-capitulatis, 20 \approx 8-10, basi 1-2-septatis, suboppositis, ornatis efformato, hyphis conidiferis destituto; peritheciis globosis vel globoso-depressis, 140-200 μ . diam., atris, glabris, granulosis, membranaceo-coriaceis, contextu subindistincto, crasse parenchymatico-celluloso, subopaco, atro-fuligineo; ascis bisporis, cito diffluentibus; sporidiis ellipticis, utrinque rotundatis, 30-32 \approx 18-20, 4-septatis, ad septa constrictulis, loculis granuloso-guttulatis, primo hyalinis, dein opace fuligineis.

Hab. ad folia viva Rutaceæ speciei cujusdam in silvis subvirgineis prope Piragù Bras.

9. ***Meliola cladotricha*** Lév. — Sacc. Syll. I, p. 63, Winter in Hedw. 285
1885, I. — Asci ovato-piriformes, breviter pedicellati, 8-spori, 100-105 \approx 44-50; sporidia conglobata, cylindracea, utrinque late rotundata 3-septata, ad septa parum constricta, muco hyalino obvoluta, badia, 44-52 \approx 12-14.

Hab. ad Melaleucæ cujusdam folia viva, New-Guinea (M. TARLANE) et ad folia Eugeniæ in Australia (MÜLLER).

- *10. ***Meliola balsamicola*** Peck in 34 Rep. St. Mus. pag. 52, tab I. 623
fig. 22-27. — Peritheciis paucis, gregariis, minutis, ovoideis vel subconicis, atris, liberis, mycelio, parco, brunneo-nigricante, maculæformi insidentibus; ascis sæpe oblongis, raro subcylindraceis et elongatis; sporidiis stipatis vel distichis, raro monostichis, uni-septatis, hyalinis 8-11 μ . longis, sæpe 2-3 nucleatis, loculo paululum crassiore.

Hab. in foliis vivis vel languidis Abietis balsamæ in montibus Catskill Amer. bor.

- *11. ***Meliola ampullifera*** Wint. in Rev. Myc. 1885. — Mycelio tenuissimo, sæpe fere oblitterato, maculas rotundatas vel irregulares, usque 5 mm. latas, cinereo-atras formante, ex hyphis repentibus, ramosis septatisque, fuscis, 7 μ . crassis, dense intertextis formato; hyphopodiis sæpe oppositis, sessilibus, e basi ventricosa, in collum longum, cylindricum, sæpe flexuosum attenuatis, fuscis, 30 μ . longis, basim versus 5,5-6 μ . crassis, apice 3,5 μ . latis; peritheciis numerosis, gregariis, depresso globosis, mox collapsis, concavis, opace atris, verruculosis, 220-270 μ . diam.; ascis ellipsoideo-oblongis, sessilibus, 3-4-sporis, 80-96 \approx 35; sporidiis cylindrico-ob-

longis, utrinque rotundatis, 5-cellularibus, ad septa parum constrictis, fuscis, 47-58 \approx 17-19.

Hab. ad folia viva plantæ ignotæ, Paraguay Amer. austr.

- * 12. **Meliola sanguinea** F. et Ev. in Journ. of Myc. 1886, pag. 42. 6239

— Peritheciis membranaceis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., subastomis, levibus, sæpius epiphyllis, solitariis vel in maculis orbicularibus, subindeterminatis, mycelio repente, atro, ramoso, austoriis alternatis, obovatis prædito efformatis, dense gregariis; ascis oblongo-obovatis, bisporis; sporidiis oblongo-cylindræis, leniter curvulis, 3-septatis, 38-44 \approx 12-15, utrinque obtusis, primum hyalinis dein brunneis.

Hab. in foliis, caulibus petiolisque Rubi trivialis, Louisiana Amer. bor. (A. B. LANGLOIS). — Folia fungillo invasa rubescunt.

- * 13. **Meliola densa** Cooke in Grevillea XII, p. 85. — Hypo-rarius 6240

epiphylla, aterrima, velutina; maculis orbicularibus, 1 cm. latis, dein confluentibus; peritheciis globosis, atris, leniter verruculosis, 180 μ . diam., inter fibras erectas, apice curvulas, confertissimas quasi absconditis; ascis late clavatis, bisporis; sporidiis ellipticis, 4-septatis, constrictis, fuscis, 45 \approx 18.

Hab. in foliis Eucalypti, Herbert River, Queensland in Australia, et in foliis Ilicis (?) Khasia, India.

- * 14. **Meliola tomentosa** Winter in Rev. Myc. 1885. — Amphigena; 6241

mycelio tenui, ramosissimo, plagulas subparvas, 2-6 mm. latas, interdum confluentes, atras, rotundato-irregulares efficiens; hyphis repentibus, ramosissimis, dense intricatis, crassis, septatis, fuscis, 8,5 μ . crassis, hyphopodia plerumque alternantia, nunquam opposita, typicæ late piriformia, sæpe curvata, pedicellata, 14-18 μ . lata gerentibus; hyphis erectis nullis; peritheciis parvis, depresso globosis, ruguloso-granulosis, 180-240 μ . diam., demum collabascens, cupuliformibus, atris; ascis oblongo-ellipsoideis vel oblongis, sessilibus, bisporis, 70 \approx 35; sporidiis oblongo-cylindræis, utrinque late rotundatis, 4-septatis, ad septa parum constrictis, fuscis, 52-58 \approx 20-26, mucro hyalino, angusto circumdatis.

Hab. ad folia viva plantæ ignotæ, Paraguay Amer. austr. — Defectu setarum erectarum a *Meliola amphitricha* et affinis, sporidiis multo majoribus a *Meliola inermi* valde diversa.

- * 15. **Meliola ludibunda** Speg. Fung. Guar. Pug. I, n. 178. — Am- 6242

phigena; mycelio tenui, effuso, plagulas atras, velutinas, plus minusve latas sæpeque totum folium ambientes efformante, ex hyphis repentibus, dense intricatis, conferte oppositæque ramosis, ramis

hyphopodiis globoso-capitulatis, 10-12 μ . diam., numerosissimis ornatis, crassiusculis, 6-8 μ . crassis, fuliginosis composito, hyphis conidiferis rectis, setuliformibus, pluriseptatis, longiusculis, 100-300 \approx 5-10, apice integris ac subobtusis ornato; peritheciis globosis, in sicco sæpius cupulato-collapsis, 150-200 μ . diam., glabris, papuloso-rugulosis, atris, sparsis vel aggregatis, senescendo facillime deciduis, coriaceo-membranaceis, contextu parenchymatico, parum distincto, atro-olivaceo; ascis ellipticis, 45-55 \approx 30-35, bisporis, mox diffluentibus; sporidiis cylindræis vel subelliptico-cylindræis, magnitudine ludentibus, 28-45 \approx 9-14, 4-septatis, ad septa leniter constrictis, utrinque obtuse rotundatis, fuliginosis.

Hab. ad folia viva arborum herbarumque prope Guarapi et Paraguari Bras. — *Obs.* sub hoc nomine formas (species?) plurimas parum definitas (fere *M. amphitriche* varietates minores tantum proferentes) hyphis erectis, apice integris, simplicibus, hyphis repentibus, hyphopodiis 1-(rarius 2-)septatis, subglobosis vel ellipticis, oppositis ornatis colligentur; formis his tamen sedulius perscrutatis et characteribus definitis, species plurimæ certe inveniendæ.

- *29. **Meliola Heteromeles** (Cooke et Hark.) Berl. et Vogl. *Meliolopsis heteromeles* Cooke et Hark. in *Grevillea* XIII, p. 21. — Effusa, atra; mycelio subcrustaceo, moniliformi, ramoso-intertexto, *Capnodio* immixto; peritheciis globosis, 200 μ . diam., membranaceis, liberis; ascis clavatis, octosporis; sporidiis lanceolatis, 3-5-septatis, hyalinis, 40 \approx 8.

Hab. in foliis *Heteromeles* in California.

- *30. **Meliola loganiensis** Sacc. et Berl. *Misc. Myc.* II, n. 15. — Epiphylla; mycelio late effuso sed tenuissimo, fere nubiloso; hyphis repentibus, filiformibus, patule ramosis, septatis, subhyalinis; peritheciis globulosis, astomis, obtusis, 130-140 μ . diam., atris, setulis divergentibus, rectis, cuspidatis, septatis, fuliginosis, sursum pallidioribus parce conspersis; ascis fusoidæo-clavatis, brevissime stipitatis, apice obtusis, 45-50 \approx 18, suboctosporis; sporidiis subtristichis, fusoidæo-clavulatis, 28-32 \approx 7-8, deorsum acutioribus, 7-8-septatis, non constrictis, hyalinis.

Hab. in foliis submortuis *Smilacis* cujusdam, Logan Australiae. — Si sporidia constanter hyalina, species hæc genus novum v. saltem sectionem generis novam constitueret.

- *35. **Meliola Calendulæ** Malbr. et Roum. in *Rev. Myc.* 1886, p. 90. — Peritheciis globulosis, brunneis; ascis ovoideis, 85 \approx 60, 6-spo-

ris; sporidiis ovalibus, hyalinis, 27-30 \approx 18-20; hyphis subhyalinis.

Hab. in caulibus siccis *Calendulae arvensis*, Rouen Galliae (A. MALBRANCHE).

40. **Meliola ganglifera** Kalchbr. Teste Winter (Confr. Rev. Myc. 1885), 315
sporidia sunt cylindracea, utrinque rotundata, 3-septata, ad septa parum constricta, opace atro-fusca, 47-51 \approx 14.

TESTUDINA Bizz. Fungi Ven. novi vel crit. p. 1. (Etym. a quadam similitudine cum testa *Testudinis*). — Perithecia sparsa v. saepius dense gregaria, superficialia, carbonacea, astoma, globosa vel piriformia, dein in areolas subpentagonas regulariter rupta, basi subnuda. Asci globoso-clavati, stipite articulado, longo, subinde ramoso, inserti. Sporidia ellipsoidea, 1-septata, fuliginea, asperula.

1. **Testudina terrestris** Bizz. Fung. ven. nov. vel crit. pag. 1, t. II, 6246
fig. 1. — Peritheciis $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., dense gregariis, superficialibus, basi nudis vel hyphulis paucis septatisve donatis, astomis, minute foveolatis et rugosis, dein vel levi pressione in fragmenta regulariter pentagona, prosenchymatica, atra diffractis; ascis cito diffluentibus, rotundato-ovalibus, 11-13 \approx 10,5-11, pseudostipite hyphoideo, elongato, septato, subramoso insertis; sporidiis ellipsoideis, utrinque rotundatis, 7-8 \approx 4,4-5, fuligineis, asperulis.

Hab. ad terram cretaceo-sabulosam in Horto botanico Patavino.

CAPNODIUM Mont. — Sacc. Syll. I, p. 73.

- *2. **Capnodium Juniperi** Phill. et Plowr. in Grevillea XIII, p. 75. — 6247
Peritheciis globoso-cylindraceis, basi constrictis, circ. 200 \approx 100, mycelio crasso, nigro insidentibus, basi hyphis numerosis, septatis, nigris cinctis; ascis ovatis, 50 \approx 20; sporidiis ovoideis, utrinque acutis, triseptatis, brunneis, distichis, 25 \approx 10.

Hab. in ramulis *Juniperi*, Forres Britanniae (Dr. KERN).

- *7. **Capnodium Heteromeles** Cooke et Hark. in Grevill. XIII, pag. 21. 6248
— Effusum, atrum, subvelutinum; hyphis densissime intertextis, ramosis, septatis moniliformibusque; peritheciis cylindraceo-ventricosis, erectis, subtenuibus, simplicibus, 200 \approx 20; sporidiis incertis (potius triseptatis, muriformibus, fuscis) 18 \approx 9.

Hab. in foliis *Heteromeles* in California.

- *9. **Capnodium Rhamni** Cooke et Hark. in Grevillea XIII, p. 21. — 6249
Maculaeforme, atrum; hyphis repentibus, plerumque moniliformibus, ramosis, stratum tenuem efformantibus; peritheciis erectis, cylindricis, sursum attenuatis, 300 \approx 40 simplicibus, ore fimbriato; spo-

ridiis ellipticis, triseptatis, fuscis, 18-20 \approx 8, uno loculo transversaliter diviso; conidiis liberis, fuscis, uniseptatis 12 \approx 6.

Hab. in foliis Rhamni in California. — Certe a *Cap. rhamnicolo* distinctum.

- *21. **Capnodium Tuba** Cooke et Hark. in Grevillea XIII, p. 21. — Effusum, crustaceum, atrum; hyphis intertextis, ramosis, repentibus, alteris septatis, alteris moniliformibus, crustam crassam, deciduam efformantibus; peritheciis erectis, numerosis, cylindraceutis, 120 \approx 14, sursum ciliatis, divisis, infundibuliformibus, expansis, conidiis (?) ovatis, continuis, hyalinis, repletis: ascis nondum visis.

Hab. in foliis Umbellulariæ in California.

27. **Capnodium pelliculosum** B. et Rav. — Sacc. Syll. I, p. 79. Martin in Journ. of Myc. 1885, p. 98. — Mycelium epiphyllum, crustam subtilem, filamentis intricatis brunneis subrectangulariter ramosis, 5-8 μ . crassis, conidiferis compositam, superficiem foliorum occupantem efformans; conidia 3-4-stellato-ocularia, *Triposporio* similia, primum hyalina dein fusca; hyphæ 4-5-septatæ nucleatæque, 50-76 \approx 7-9, sursum attenuatæ; perithecia pycnidica membranacea, contextu parenchymatico, mycelio insidentia, oblonga, 70-200 \approx 30-50, apice subobtusato vel subfimbriato; sporulæ minutæ, hyalinæ, oblongæ, 3-4 \approx 1; perithecia ascigera mycelio insidentia, depresso globosa, membranacea, 100-150 μ . diam., appendicibus 15-25, brunneis, septatis, 75-100 μ . longis prædita; asci primum oblongi dein ellipsoidei, 40 \approx 25; sporidia stipata, late fusoidea, hyalina, primum 1-septata, demum 3-septata, 15-22 \approx 4-7.

Fam. 2. Sphæriaceæ FR.

Sect. 1. Allantosporæ Sacc.

CŒLOSPHÆRIA Sacc. Syll. I, pag. 91.

2. **Cœlosphæria tristis** (Pers.) Sacc. Syll. I, p. 92. Winter in Hedwigia 1886, p. 104. — Perithecia $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; asci pedicello longo, tenui præditi, octospori, 40-15 \approx 8-9; sporidia plerumque recta, 9,5-11 \approx 2-2,5. — Sec. vero exemplaria anglica (in Fraxino) in herb. Saccardi, asci p. sp. 26-30 \approx 10; sporidia curvula vel recta, 4-guttata, 15 \approx 2. An ergo duæ species?
- *2. **Cœlosphæria anceps** Sacc. et Malbr. Fung. Gall. ser. V, n. 2153. — Peritheciis erumpenti-superficialibus, in soros minutos, subcir-

culares, 1 mm. circ. diam. dense stipatis, globosis, mox cupuliformibus, levibus, nigris, $\frac{1}{5}$ - $\frac{1}{6}$ mm. diam., ostiolo obsolete, contextu parenchymatico nigricante; ascis clavatis, deorsum attenuatis, 60-65 \approx 8-10, paraphysibus (spuriis?) crassis, septulatis obvallatis, octosporis; sporidiis distichis, botuliformibus, rectis curvulisve, 10-14 \approx 3, bi-quadriguttulatis, hyalinis.

Hab. ad ramos emortuos corticatos Tiliæ, Rouen Galliæ. — Sporidia fere *Cœl. tristis*, sed perithecia multo minora. Hæc in quoque soro 10-12 adsunt.

- * 3. **Cœlosphæria Suberis** Winter Contr. Fl. Myc. Lus. V, pag. 17. — 6252
Peritheciis sparsis vel gregariis, superficialibus, absque subiculo, lentiformibus, demum collapsis-concavis, atris, rugulosis et parcissime pilis brevissimis, fuscis, articulatis obsitis, 0,23-0,26 mm. diam.; ascis cylindraceis, utrinque parum attenuatis, sessilibus, 8-sporis; 80-90 \approx 10; paraphysibus filiformibus obvallatis; sporidiis inordinate distichis, allantoideis, fere semiorbiculatim curvatis, hyalinis, continuis, 17-23 \approx 3,5.

Hab. ad Quercus Suberis corticem prope Coimbra in Lusitania (MOLLER).

FRACCHIÆA Sacc. Syll. I, p. 93.

- * 1. **Fracchiæa Saccardiana** Schulz. in Rev. Myc. 1884. Schulz. Ill. 253
Fung. Slav. n. 109. — Peritheciis gregariis vel hinc inde subaggregatis, globulosis, superficialibus, imo basi coarctatis, vertice rotundatis, vix pertusis, atris, setulis brevissimis, densiusculis vestitis, intus pallidis, $\frac{1}{8}$ - $\frac{1}{5}$ mill. diam.; ascis clavatis, breve stipitatis, paraphysatis, polysporis; sporidiis allantoideis, utrinque rotundatis triguttatis, curvis, hyalinis, 14 \approx 3.

Hab. in ramis decorticatis Cydoniæ vulgaris prope Vinkovce Slavoniæ.

- * 2. **Fracchiæa Cordæana** Schulz. et Sacc. in Rev. Myc. 1884. Schulz. 6254
Ill. Fung. Slav. n. 101. — Peritheciis hinc inde in acervulos coadunatis, subsuperficialibus vel superficiali-globosis vel globoso-conoideis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., minute rugulosis, atris, vertice obtusiusculis, minute pertusis, intus pallidis, denique collabescendo umbilicato concaviusculis; ascis paraphysatis, clavatis, mediocriter stipitatis, polysporis; sporidiis allantoideis, sæpius 3-guttatis, 14 \approx 3, utrinque rotundatis, hyalinis.

Hab. in cortice trunci Cydoniæ vulgaris prope Vinkovce Slavoniæ.

CALOSPHERIA Tul. — Sacc. Syll. I, p. 95.

- *6. **Calosphæria hylodes** (Ell. et Ev.) Berl. et Vogl. *Valsa hylodes* 6255
E. et E. in Journ. of Myc. 1886, p. 40. — Pustulis in seriebus vel lineis dispositis; peritheciis membranaceis, globosis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam., epidermidem vix elevantibus, in quaque pustula 4-6, substantia fibrosa parum mutata, corticis interioris immersis, ostiolis cylindræis, rugosis, atris, $\frac{1}{3}$ mm. longis, poro minuto pertusis, apice rotundatis, in fasciculum epidermidem perforantem congestis; setis interpositis brunneis, asperulis, fasciculum æquantibus v. longioribus superficiem matricis cæspituloso-velutinam reddentibus; ascis clavatis, in pedicellum gracilem filiformem desinentibus, 18-22 \approx 5 p. sp. parte superiore latiore et obtusa; sporidiis cylindræis, hyalinis, pallide luteis, sæpe curvis, circiter 5 \approx 1, utrinque uninucleatis.

Hab. in cortice arborum emortuarum, Louisiana Amer. bor.
(REV. A. B. LANGLOIS).

QUATERNARIA Tul. — Sacc. Syll. I, pag. 106.

- *1. **Quaternaria abnormis** (Fr.) Berl. et Vogl. *Sphæria abnormis* 4208
Fries. S. M. II, p. 411 et Sacc. Syll. II, p. 487, *Valsa abnormis*
Cooke in Grevillea XIII, p. 39. — Sporidia allantoidea, hyalina, minuta.

BIZZOZERIA Sacc. et Berl. Misc. Myc. II, p. 28 (Etym. a cl. bot. JAC. BIZZOZERO de flora veneta meritissimo). — Perithecia superficialia v. basi ligno insculpta, discreta, subcarbonacea, globoso-papillata, numquam collabentia. Asci paraphysati, octospori (breve pedicellati). Sporidia allantoidea, majuscula, continua, subhyalina. A gen. *Calosphæria* peritheciis discretis, subcarbonaceis, numquam collabentibus, sporidiis magnis etc. statim distinguitur.

1. **Bizzozzeria veneta** Sacc. et Berl. Misc. Myc. II, pag. 28, n. 114, 6256
tab. VIII, f. 4. — Peritheciis discretis sed dense gregariis, extus olivaceo-atris, levibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo brevi papillato; ascis tereti-fusoides, 110 \approx 14, breviter stipitatis, apice rotundatis, octosporis; paraphysibus filiformibus, asco brevioribus; sporidiis oblique monostichis v. distichis, eximie allantoideis, curvulis, utrinque rotundatis, 35-40 \approx 5-6, dense et minutissime granulosis vel guttulatis, olivaceo-hyalinis.

Hab. in ramis decorticatis *Quercus pedunculatæ* in silvula Cervarese prope Padova Ital. bor.

VALSA Fr. — Sacc. Syll. I, p. 108.

- *1. **Valsa Opulifoliae** Peck 38 Rep. St. Mus. p. 103. — Stromatibus 6257
subconicis vel subhemisphaericis, erumpentibus; peritheciis 5-20 in
quoque stromate, in cortice interiore nidulantibus, stipatis, mutua
pressione saepe angulatis; ostioliis stipatis, atris in disco griseo laten-
tibus; ascis subclavatis, pedicellatis, 30-40 \approx 6-8 p. sp.; sporidiis
allantoideis, sursum inordinatis, basi monostichis, 10-12 \approx 2-2,5.

Hab. in ramis emortuis Spiræae opulifoliae, West Albany
Americæ borealis.

- *2. **Valsa guarapiensis** Speg. Fung. Guar. Pug. I, n. 181. — Peri- 6258
theciis hinc inde monostiche aggregatis, in cortice nidulantibus epi-
dermidemque pustulatim minute 0,4-0,6 mm. diam. elevantibus
globulosis, membranaceis, contextu parenchymatico-elongato, dilu-
te olivaceo, ostioliis brevibus, carbonaceo-atris, convergentibus ac
disculum irregularem et vix exertum efformantibus ornatis; ascis fu-
soidis, parte sporifera, subfusioidea, 30-35 \approx 6, apice truncatis, basi
in stipitem mox fatiscentem, elongatum, 70-80 \approx 1-2, hyalinum pro-
ductis, octosporis; sporidiis distichis, botuliformibus, 5-6 \approx 1, utrin-
que 1-guttulatis, hyalinis.

Hab. ad ramos plantæ scandentis (Cissus?) cujusdam prope
Guarapi Bras.

- *3. **Valsa morigena** B. et C. in Grevillea XIV, p. 46. — Peritheciis 6259
globosis, linea nigra circumscriptis stromateque pallido, corticali
immersis, demum crusta nigrificata tectis, ostioliis in discum minu-
tum, atrum, subconfluentibus, prominulis; ascis cylindraceo-clavatis;
sporidiis allantoideis, hyalinis, 10 \approx 2.

Hab. in cortice Mori multicaulis in Carolina inferiore
Americæ borealis.

- *4. **Valsa pusio** B. et C. in Grevillea XIV, p. 46. — Pustulis par- 6260
vulis, erumpentibus; peritheciis atris, subglobosis in cortice ni-
dulantibus, epidermide fissurato cinctis; ostioliis subrugosis, brevi-
bus, truncatis in disco orbiculari emergentibus; ascis clavatis sub-
sessilibus, octosporis; sporidiis allantoideis, hyalinis, subfuscidulis,
8 \approx 2.

Hab. in cortice Mori multicaulis in Carolina inferiore
Amer. bor.

- *5. **Valsa cornina** Peck in 38 Rep. St. Mus. p. 102. — Stromatibus 6261
minutis, sparsis, primum epidermide tectis demum, eâ longitudi-
naliter ruptâ, nudis; peritheciis 2-5 in quoque stromate, in parte
interiore corticis nidulantibus, nigris; ostioliis vix exertis; ascis

clavatis sursum rotundatis, 50 \approx 10; sporidiis in asci parte superiore congestis, allantoideis, 15-17 \approx 4.

Hab. in ramis emortuis Corni paniculatæ, Albany in America boreali.

- *6. **Valsa fraxinina** Peck in Torr. bot. Club. 1884, pag. 28. — Pustulis parvis; peritheciis minutis, in quoque stromate 3, cortice interiore nidulantibus; ostiolis minutis, punctiformibus, nigris; ascis subclavatis, 50-60 \approx 8; sporidiis allantoideis, stipatis, 12-17 \approx 4-5, hyalinis.

Hab. in ramis emortuis Fraxini americanæ, Canada in America boreali (MACOUN).

- *7. **Valsa rubincola** (Schw.) Cooke in Grevillea XII, p. 38, *Sphaeria rubincola* Schw. Syn. Amer. bor. n. 1331, et Sacc. Syll. II, p. 380. — Sporidia allantoidea, 9 \approx 2.

- *8. **Valsa modesta** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphaeria modesta* Schw. Syn. Amer. bor. n. 1337, et Sacc. Syll. II, p. 381. — Sporidia allantoidea, 7,8 \approx 3,2.

- *9. **Valsa conspurcata** (Schw.) Cooke in Grevillea XIII, pag. 39, *Sphaeria conspurcata* Schw. Syn. Amer. bor. n. 1336, et Sacc. Syll. II, p. 383. — Sporidia allantoidea, hyalina 6 \approx 2.

- *10. **Valsa expers** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphaeria expers* Schw. Syn. Amer. bor. n. 1396 et Sacc. Syll. II, p. 387. — Sporidia allantoidea, 20 μ . longa.

- *11. **Valsa rimicola** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphaeria rimicola* Schw. Syn. Amer. bor. n. 1397 et Sacc. Syll. II, p. 388. — Sporidia allantoidea, 6,5 μ . longa.

- *12. **Valsa pullula** B. et C. in Grevillea XIV, p. 47. — Pustulis parvulis, primo tectis (statu imperfecto in Herb. Berk.); ascis clavatis, octosporis; sporidiis cylindræis, utrinque rotundatis, leniter curvulis (sæpe rectis), hyalinis, 8 μ . longis.

Hab. in ramulis Castaneæ in Pennsylvania Amer. bor. (MICHENER).

- *13. **Valsa coryneoides** B. et C. in Grev. XIV, p. 47. — Pustulis minimis, primo tectis demum erumpentibus; peritheciis paucis, subglobosis, in disco fuligineo compactis; ascis clavatis; sporidiis allantoideis, hyalinis, 10-12 μ . longis.

Hab. in cortice Juniperi virginianæ, New Jersey in America boreali.

- *14. **Valsa lasiostoma** Ell. et Ev. in Torr. bot. Club. 1883, p. 89. — Peritheciis circinatis, 330-500 μ . diam., globosis, tuberculoso-

rugosis, superficie corticis, interioris insidentibus vel vix infossis, in colla, 100-150 μ . longa, cylindracea, tecta, epidermidem fasciatim perforantia discum non efficientia desinentibus; ascis 35-40 \approx 4-5 p. sporif.; sporidiis cylindraceis, hyalinis, leniter curvulis, 5-6 \approx 1,5-2.

- *16. **Valsa Mulleriana** Cooke in Grevillea XIV, p. 46. — Pustulis 6266
convexis, erumpentibus, majusculis, suborbicularibus; peritheciis atris, ovatis, sursum in colla levia productis, hinc illinc cum macrostylosporibus in eadem pustula immixtis; ascis clavatis, octosporis; sporidiis inordinatis, allantoideis, hyalinis 8 \approx 2, saepe 1 μ . crassis; macrostylosporibus in eadem vel altera pustula, piriformibus, 2-3-septatis, longitudinaliter divisis, fuscis, 12-14 \approx 9.

Hab. in ramis Quercus, Eastbourne Britanniae (MULLER).

- *17. **Valsa rhizina** (Schw.) Cooke in Grevillea XIII, p. 31, *Sphaeria* 4215
rhizina Schw. Syn. Amer. bor. n. 1398 et Sacc. Syll. II, p. 388. — Sporidia allantoidea, 9 \approx 3.

- *18. **Valsa Radicum** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphaeria* 4182
Radicum Schw. Syn. Amer. bor. n. 1335 et Sacc. Syll. II, p. 380. — Sporidia allantoidea, 10 μ . longa.

- *19. **Valsa juglandicola** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphaeria* 4173
juglandicola Schw. Car. n. 102 et Sacc. Syll. II, p. 379. — Sporidia allantoidea, 6 \approx 2.

- *23. **Valsa variolaria** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphaeria* 4189
variolaria Schw. Syn. Amer. bor. n. 1371 et Sacc. Syll. II, p. 380. — Sporidia allantoidea, 7,8 \approx 3,2.

- *24. **Valsa prunicola** Peck in 33 Rep. St. Mus. 1883, p. 33. — Pustulis 6267
sparsis, leniter prominulis, epidermide perforantibus vel transverse erumpentibus; peritheciis 10-12 ligno immersis vel cortice interiore nidulantibus; ostioliis stipatis, vix exertis; ascis fusiformibus vel subcylindraceis, rectis aut vix curvulis, quadrinucleatis, hyalinis, 12-15 \approx 4.

Hab. in ramis emortuis Pruni pensilvanicae, Sandlake Amer. bor.

- *25. **Valsa agnostica** Cooke et Harkness in Grevillea XIII, p. 17. 6268
— Erumpens, subrotunda convexa; caespitulis in cortice nidulantibus, primo tectis, demum disco suborbiculari nudo; peritheciis 8-12, subglobosis, atris, in stromate pallido aggregatis; ostioliis brevibus rectis, obtuso-rotundatis, nitidis; ascis subclavatis, octosporis; sporidiis allantoideis, rectis vel curvulis, biserialibus, hyalinis, 6-7 \approx 1,5.

Hab. in ramis Ribis in California (HARKNESS).

- *26. **Valsa aractina** (Fr.) Cooke in Grevillea XIII, p. 39, *Sphæria* 4198
aractina Fries S. M. II, p. 391 et Sacc. Syll. II, p. 384. — Sporidia allantoidea, 10 μ . longa.
- *30. **Valsa deformis** (Fr.) Cooke in Grevillea XIII, p. 39. *Sphæria* 4201
deformis Fries. S. M. II, 398 et Sacc. Syll. II, p. 485. — Sporidia allantoidea, hyalina, 6-8 \approx 1,5.
- *37. **Valsa Sallei** (Berk.) Cooke in Grevillea XIII, p. 38, *Sphæria* 4177
Sallei Berk. En. Fungi St. Domingo, pag. 12, et Sacc. Syll. II, p. 379. — Sporidia allantoidea, hyalina, minuta.
- *40. **Valsa Cathartocarpi** (Lév.) Cooke in Grevillea XIII, pag. 38, 4178
Sphæria Cathartocarpi Lév. Ann. scienc. nat. 5, 1846, p. 459, et Sacc. Syll. II, p. 380. — Sporidia allantoidea, hyalina 10 \approx 3.
- *47. **Valsa minutella** Peck in Torr. bot. Club. 1884, pag. 27. — 6269
Pustulis minutis; peritheciis 6-20 in quaque pustula, cortice nidulantibus nigris; ostioli in discum minutum, subferrugineum, epidermide rupta cinctum, erumpentibus, nigris; ascis brevibus, clavatis vel subfusiformibus, breviter pedicellatis, 22-30 \approx 5-6; sporidiis allantoideis, stipatis, 5-6 μ . longis.

Hab. in cortice Fagi ferrugineæ, Canada Americæ borealis (J. MACOUN). — Minuta, stromatibus parvis, disco subferrugineo mox dignoscenda.

- *48. **Valsa fagicola** Ell. et Ev. in Bull. Torr. bot. Club. 1883, p. 118. 6270
— Stromate e cortice parum mutata formato; peritheciis circinatis, 10-15, subglobosis, membranaceis, collapsis, 330 μ . diam., in collum cylindricum, gracile 330 μ . longum abrupte contractis; ostioli convergentibus, epidermidem perforantibus, apice obtusis, late perforatis, in discum parvum papillæformem, nigrum collectis; ascis 18-20 \approx 3 p. sp., apice convexo, hyalino, mox evanido et tum truncatis; sporidiis distichis, cylindræis, hyalinis, curvis, 2,5-3,5 \approx 0,5-0,7.

Hab. in ramulis emortuis Fagi ferrugineæ, West Chester Americæ borealis.

- *58. **Valsa Lupini** Cooke et Harkn. in Grevillea XIV, p. 8. — Acer- 6271
vulis gregariis, erumpentibus; peritheciis 4-8, subglobosis, atris, in cæspitulos subconicos congestis, ostioli convergentibus, minutis; ascis clavatis, deorsum longe attenuatis, octosporis; sporidiis allantoideis, subrectis, hyalinis, 7 \approx 2.

Hab. in caule Lupini in California (HARKNESS).

- *59. **Valsa conseptata** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæ-* 4191

ria conseptata Schw. Syn. Amer. bor. n. 1374 et Sacc. Syll. II, p. 382. — Sporidia allantoidea, hyalina, $8,3 \approx 3,2$.

- *61. **Valsa quadrifida** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphaeria quadrifida* Schw. Syn. Amer. bor. n. 1378, et Sacc. Syll. II, pag. 381. — Sporidia allantoidea, hyalina, $9 \approx 3,2$. 4183

- *82. **Valsa Lavateræ** Cooke et Harkn. in Grevillea XIV, pag. 8. 6272
— Acervulis gregariis, ligno nigrificato immersis, epidermide tectis; peritheciis 3-6, subglobosis, atris; ostiolis elongatis, cylindraceis, tenuibus, emergentibus; ascis clavatis, octosporis; sporidiis allantoideis, hyalinis, $8 \approx 2$.

Hab. in caulibus *Lavateræ* assurgentifoliæ in California (HARKNESS).

- *83. **Valsa indistincta** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphaeria indistincta* Schw. Syn. Amer. bor. n. 1377, et Sacc. Syll. II, p. 382. — Sporidia reniformia, hyalina, $6 \approx 4,5$. 4187

- *84. **Valsa Menispermii** E. et Hol. in Journ. of Myc. I, p. 4. — Peritheciis circinatis stromate corticali, non linea circumscripto, 6-10 immersis, circiter $\frac{1}{4}$ mm. diam., contextu celluloso, membranaceo, ostiolis brevissimis atque in discum circularem, $\frac{1}{2}-\frac{1}{8}$ mm. d., epidermide linea nigra, circulari signata tectum coalitis; ascis clavatis, $70 \approx 12$; sporidiis numerosis, cylindraceis, luteis, curvatis, $15-20 \approx 4-6$. 6273

Hab. in caulibus emortuis *Menispermii* canadensis in America septentrionali.

- *85. **Valsa subseriata** Cooke in Grevillea XIV, p. 47. — Pustulis convexis, erumpentibus, subdiscoideis, 3-4, vix ultra, longitudinaliter seriatis; peritheciis 10-16, subglobosis, sursum in ostiolis elongatis, levibus congestis; ascis clavatis, breviter stipitatis; sporidiis majusculis, allantoideis, hyalinis, $30 \approx 6$. 6274

Hab. in ramis Fagi, Shiere Britannicæ (D. CAPRON).

- *86. **Valsa aperta** (Fr.) Cooke in Grevillea XIII, p. 40, *Sphaeria aperta* Fr. S. M. II, p. 407 et Schw. Syn. Amer. bor. n. 1381. — Circinata; peritheciis exiguis, cortice interiore immersis, subinde irregulariter aggregatis, superne crusta tegente junctis; ostiolis peritheciis duplo longioribus, erumpentibus, primo pro more convergentibus dein erectis, apice perforatis; ascis clavato-cylindraceis; sporidiis allantoideis, hyalinis, $18 \approx 6$. 6275

Hab. in ramis Populi in Suecia et America bor.

- *87. **Valsa Ceanothi** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphaeria* 4192

Ceanothi Schw. Syn. Amer. bor. n. 1376, et Sacc. Syll. II, p. 383.
— Sporidia allantoidea, 20 \approx 6.

- *107. **Valsa grisea** Peck in Torr. bot. Club. 1884, p. 28. — Stromatibus parvis; peritheciis 4-5 in quoque stromate, in cortice interiore nidulantibus, collis convergentibus atque discum orbicularem, minutum, erumpentem, griseum vel brunneum perforantibus; ostioli punctiformibus, nigris; ascis clavatis, 50-60 μ . longis; sporidiis allantoideis, 10-12 μ . longis, hyalinis.

Hab. in ramis emortuis Fraxini Americanæ et Aceris rubri, Canada Amer. bor. (Macoun).

- *109. **Valsa leucostomoides** Peck 38 Rep. St. Mus. p. 103. — Stromatibus numerosis, minutis, epidermide, disco orbiculari, albo vel griseo perforata. tectis; peritheciis 2-6, vel magis, in quoque stromate; ostioli punctiformibus, nigris; ascis clavatis vel subfusiformibus, 40-50 \approx 8,5-10; sporidiis stipatis, allantoideis, 12-15 \approx 4-5, hyalinis.

Hab. in ramis emortuis Aceris saccharini in montibus Hedelberg Amer. bor. — *Valsa leucostomati* affinis.

EUTYPELLA (Nits.) — Sacc. Syll. I, p. 147.

- *4. **Eutypella parvula** Sacc. Misc. Myc. I, n. 2198. — Stromatibus laxè parallele gregariis, elongato-lanceolatis, erumpentibus basi ligno infossis, convexiusculis, nigris, 1½ mm. long., ½ mm. crassis; ostioli exiguis, vix extantibus, obtusis, angulosis; peritheciis globosis, atris, paucis, monostichis, extus albido-furfurellis; ascis clavatis, longe stipitatis, 110 \approx 10, p. sporif. 50-60 μ . longa, octosporis; sporidiis distichis, allantoideis, curvulis, 11-14 \approx 3, pallide olivaceis.

Hab. in ramulis denique decorticatis Symporicarpi racemosæ, Saintes (BRUNAUD). — Stromatibus lanceolatis, minutis imprimis dignoscenda species.

- *8. **Eutypella aleurina** (B. et Cooke) Berl. et Vogl. *Valsa aleurina* B. et C. in Grevillea XIV, p. 46. — Pustulis convexis, orbicularibus, dense gregariis, erumpentibus, epidermide circum ostiola stellatim fissa; peritheciis atris, in cortice nidulantibus, collis sulcatis, convergentibus; ascis clavatis, octosporis; sporidiis allantoideis, hyalinis, 8 μ . longis.

Hab. in cortice Platani in Carolina inf. Amer. bor.

- *9. **Eutypella Mori** Schulz. et Sacc. in Rev. Myc. 1885, Schulz. Ill. Fung. Slav. n. 980. — Stromatibus laxè gregariis, innato-erumpenti-

bus corticolis, verruciformibus, $\frac{1}{2}$ -2 mm. cr., atris, intus pallidis, linea nulla nigra infra limitatis; peritheciis stromate immersis, valsoideis, ovatis, collis convergentibus, in ostiola emergentia incras-satula, noduloso-rimosa desinentibus; ascis clavatis, stipitatis (spu-rie?) paraphysatis, octosporis; sporidiis distichis, allantoideis, hya-linis, 9-12 \approx 3.

Hab. in ramis corticatis Mori nigræ prope Vinkovce Slavo-niæ. — Forte non specificè distinguenda a forma eutypellacea *Eu-typer ludibundæ*.

9. **Eutypella stellulata** (Fr.) Sacc. Syll. I, pag. 149. Var. **Ravenelii**, 571
Rehm. Ascomyc. fasc. XV, p. 10. — Stromatibus valseis, sub cor-tice nidulantibus, nulla linea nigra circumscriptis, intus albidis; peritheciis 12, monostichis; sporidiis ut in *E. stellulata*.

Hab. ad Moros in Hungaria. — Var. **Liquidambaris** Rehm. l. c. — Stromatibus linea nigra vix circumscriptis; sporidiis 9 \approx 3.

Hab. ad ramos Liquidambaris in Hungaria.

- * 10. **Eutypella Halseyana** (Schw.) Berl. et Vogl. *Sphæria Halseyana* 4188
Schw. Syn. Amer. bor. n. 1319 et Sacc. Syll. II, p. 382, *Valsa Halseyana* Cooke in Grevillea XIII, p. 39. — Sporidia allantoi-dea, 8 μ . longa.

- * 11. **Eutypella gonio-stoma** (Schw.) Berl. et Vogl. *Sphæria gonio-* 4189
stoma Schw. Syn. Amer. bor. n. 1373, et Sacc. Syll. II, p. 382, *Valsa gonio-stoma* Cooke in Grevillea XIII, p. 39. — Sporidia allantoidea, hyalina, 7 \approx 2.

- * 39. **Eutypella constellata** (B. et C.) Berl. et Vogl. *Valsa constel-* 6281
lata B. et C. in Grevillea XIV, p. 46. — Pustulis orbicularibus, in lineas vel inordinate dispositis, erumpentibus, dense gregariis; peritheciis atris, globosis, paucis, 4-6 congestis, collis abbreviatis, ostiolo sulcato; ascis clavatis, octosporis; sporidiis allantoideis, hyalinis.

Hab. in ramis Caryæ etc. in Carolina inf.

VALSELLA Fuck. — Sacc. Syll. I, p. 158.

- * 16. **Valsella Papyrifera** (Schw.) Berl. et Vogl. *Valsa papyrifera* 4184
Cooke in Grevillea XIII, p. 39, *Sphæria Papyrifera* Schw. Syn. Amer. bor. n. 1375, et Sacc. Syll. II, p. 381. — Sporidia nume-rosa, allantoidea, minuta.

CRYPTOSPHERIA Grev. — Sacc. Syll. I, p. 182.

- * 2. **Cryptosphæria Schulzeri** Sacc. in Rev. Myc. 1884, Schulz. Ill. 6282

Fung. Slav. n. 525 et 526. — Peritheciis densiuscule gregariis, cortice, subimmutato immersis, globosis, 400 μ . diam.; ostiolis conoideis non rimosis, breviter stipitatis, octosporis; sporidiis subdistichis, botuliformibus, $5 \approx 1,5-2$, biguttulatis, hyalinis.

Hab. in cortice Ulmi suberosæ pr. Vinkovce Slavoniæ, sociâ formâ helminthosporioideâ; conidiis cylindræis, curvulis, denique 5-7-septatis, fuscis, 18 μ . longis.

- *14. **Cryptosphæria Crepiniana** Sacc. et Roum. in Rev. Myc. 1883, tab. 39, fig. 1. — Stromate late effuso, sed vix manifesto; peritheciis cortice immutato immersis, dense et æqualiter gregariis, globosis, minutis, vix $\frac{1}{2}$ mm. diam.; ostiolis perforantibus, vix exstantibus, punctiformibus, levibus; ascis fusoideo-clavulatis, longe stipitatis, p. s. 30 \approx 6, octosporis; sporidiis allantoidæis, 6-8 \approx 1, 4-1,5, hyalinis.

Hab. in cortice levi ramorum emortuorum Meliæ Azedarach cultæ Malmedy in Arduennis.

ENDOXYLA Fuck. — Sacc. Syll. I, p. 181.

- *3. **Endoxyla Populi** Romell in Hedwigia 1885, p. 263. — Peritheciis sparsis vel gregariis, ligno immutato vel dealbato omnino immersis; ostiolis emergentibus, levibus, minutis, atris, convexis, (non pezizoideo-collapsis), pertusis; ascis cylindræis, stipitatis, 8-sporis, paraphysatis, 100-140 \approx 5-10; sporidiis submonostichis, (interdum distichis), allantoidæis, curvulis, olivaceo-fuscis, 13-18 \approx 3-4- $\frac{1}{2}$.

Hab. in ligno decorticato ramulorum emortuorum Populi Tremulæ prope Upsala in Suecia (L. ROMELL). — Ligni superficies primo levis et subimmutata, nisi circa ostiola indeterminate nigrefacta, deinde in fungo perfecto vel obsoleto, supra perithecia pustulato-elevata et nigrefacta.

EUTYPA Tul. — Sacc. Syll. I, p. 162.

- *8. **Eutypa confusa** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria confusa* Schw. Syn. Amer. bor. n. 1306 et Sacc. Syll. II, p. 378. — Ostiola rugosa; sporidia allantoidæa.
- *9. **Eutypa allostoma** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria allostoma* Schw. Syn. Amer. bor. n. 1332 et Sacc. Syll. II, p. 384. — Sporidia allantoidæa, 9 \approx 3.
- *10. **Eutypa mela** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria mela* Schw. Syn. Amer. bor. n. 1308 et Sacc. Syll. II, p. 377. — Non distincta ab *E. maura* videtur.

- *20. **Eutypa oppansa** (Fr.) Cooke in Grevillea XIII, p. 38, *Sphæria* 4160
oppansa Fr. S. M. II, 374 et Sacc. Syll. II, pag. 376. — Sporidia
allantoidea, circiter 10 μ . longa.
- *23. **Eutypa Mori-rubræ** (Schw.) Cooke in Grev. XIII, p. 33, *Sphæria* 4166
Mori-rubræ Schw. Syn. Amer. bor. n. 1302 et Sacc. Syll. II, p. 375.
— Sporidia cylindracea, vix curvula, pallide fusca, 8 μ . longa.
- *36. **Eutypa ludens** Speg. Fung. Guar. Pug. I, n. 180. — Stromatè plus 6285
minusve late effuso e cortice v. ligno nigrefacto efformato; peri-
theciis plus minusve dense constipatis, laxè v. dense bullatim erum-
pentibus, globulosis, submembranaceis, contextu subindistincte pa-
renchymatico, olivascente, ostiolo breviusculo, atro, carbonaceo,
obscure cruciato-rugoso, stromatis superficiem vix attingente do-
natis; ascis clavatis, parte sporifera subfuscoidea, 30-40 \simeq 4-5, apice
truncato-rotundatis, deorsum attenuatis et in stipitem gracilem
30-50 \simeq 1-2, hyalinum productis, aparaphysatis, octosporis; spori-
diis allantoideis, 7-8 \simeq 1,5, utrinque 1-guttulatis, dilute chlorinis.
Hab. ad ramos ac truncos emortuos putrescentes pr. Guarapi Bras.
- *40. **Eutypa elevans** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæ-* 4169
ria elevans Schw. Syn. Amer. bor. n. 1303 et Sacc. Syll. II,
p. 376. — Sporidia allantoidea, 8 μ . longa.
- *44. **Eutypa polyscia** (Berk. et Broom.) Berl. et Vogl. *Sphæria* 6286
polyscia Berk. et Broome IV, List. Fung. Brisb. Queensland. n. 266,
tab. XV. fig. 19-21. — Stromate aterrino, punctulato; peritheciis
immersis, apice impressis; ascis clavatis, basi leniter attenuatis,
86 μ . longis, octosporis; sporidiis distichis, guttulatis, allantoideis,
majusculis, 22 μ . longis.
Hab. in epicarpio Cucurbitæ lagenariæ, Brisbane.

DIATRYPE Fr. — Sacc. Syll. I, p. 191.

- *1. **Diatrype roseola** Winter Fung. Missouri. in Journ. of Myc. 1885, 6287
p. 121. — Stromatibus sparsis v. subgregariis disciformibus, orbi-
cularibus vel parum irregularibus, non raro confluentibus, planis
vel parum convexis, erumpentibus, lateribus a peridermii fissi laci-
niis erectis cinctis, 1,5-2,5 mm. latis, superne sordide pallidissime-
que roseis, demum nigricantibus, rimulosis, intus albidis; perithe-
ciis in singulo stromate 12-30, dense stipatis, ellipticis, ostiolis sub-
longis, tenuibus, obtusissimis, vix vel non prominulis, radiatim 4-
5-sulcatis præditis; ascis anguste oblongis, longissime pedicellatis,
8-sporis, 50-60 \simeq 7 (parte sporif.); sporidiis conglobatis, cylindra-
ceis, parum curvatis, fuscis, 12-14 \simeq 2,5-3.

Hab. ad ramos aridos *Quercus tinctoriæ*. — Ascis sporidiisque majoribus a *Diatrype disciformi*, ostiolis minoribus, non v. vix prominulis, sporidiis crassioribus, a *D. asterostoma* valde diversa.

- *2. **Diatrype friabilis** (Pers.) Cooke in Grevillea XIII, p. 38, *Sphaeria friabilis* Person. Syn. 24. Fr. S. M. II, 361 et Sacc. Syll. II, p. 373. — Sporidia allantoidea, 10 μ . longa. 4150
- *3. **Diatrype variolosa** (Schw.) Cooke in Grevillea XIII, pag. 38, *Sphaeria variolosa* Schw. Syn. Amer. bor. 1272 et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 7-8 μ . longa. 4153
- *4. **Diatrype sambucivora** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphaeria sambucivora* Schw. Syn. Amer. bor. n. 1275 et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 8 μ . longa. 4154
- *5. **Diatrype concolor** (Schw.) Cooke in Grevillea XIII, p. 37, *Sphaeria concolor* Schw. Syn. Amer. bor. n. 1254 et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 7,5-8 μ . longa. 4143
- *6. **Diatrype euphorea** (Fr.) Cooke in Grevillea XIII, p. 37, *Sphaeria euphorea* Fr. S. M. II, p. 353 et Sacc. Syll. II, p. 368. — Sporidia allantoidea, 10 μ . longa. 413
- *7. **Diatrype virescens** (Schw.) Cooke in Grevillea XIII, pag. 37, *Sphaeria virescens* Schw. Syn. Amer. bor. n. 1239 et Sacc. Syll. II, p. 369. — Sporidia allantoidea, pallide fusca, 8 μ . longa. 4134
- *8. **Diatrype collecta** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphaeria collecta* Schw. Syn. Amer. bor. n. 1271 et Sacc. Syll. II, p. 374. — Sporidia.... Adsunt tantum sporulæ minutæ. 4156
- *10. **Diatrype Brassicæ** Cooke in Grevillea XIII, p. 100. — Stroma expanso, atro, indeterminato, sæpe 50-75 mm. lato, linea nigra, atra circumscripto; peritheciis globosis, plerumque sparsis, stroma immersis, sæpius 6-8-aggregatis, stroma in discum convexum elevantibus; ostiolis obtusis, fere obsolete vel elongatis et flexuosis, 1-2 mm. longis; ascis stipitatis, clavatis, 22 \approx 6, in parte superiore, octosporis; sporidiis minutis, allantoideis, hyalinis, 6 \approx 1,5. 628
- Hab.* in caule putri Brassicæ, Kew Britannicæ.
- *12. **Diatrype subaffixa** (Schw.) Cooke in Grevillea XII, p. 5, *Sphaeria subaffixa* Schw. Syn. Amer. bor. n. 1226, *Nummularia subaffixa* Sacc. Syll. I, p. 401. — Sporidia allantoidea, hyalina, 8 μ . longa. — Peraffinis *D. Stigmati*. 154
- *13. **Diatrype Rhois** (Schw.) Cooke in Grevillea XIII, p. 37, *Sphaeria Rhois* Schw. Car. n. 62, et Sacc. Syll. II, p. 369. — Sporidia allantoidea, 7,5 \approx 8 μ . longa. 628
- *14. **Diatrype Ceanothi** Cooke et Harkness in Grevillea XIII, p. 17. 629
— Acervulis verrucæformibus, innato-erumpentibus, atris, rotun-

datis, peridermio arcte cinctis, intus concoloribus; peritheciis compressis difformibusque, ostioliis brevibus, stellato-sulcatis; ascis clavatis, octosporis; sporidiis cylindræcis, curvulis, utrinque rotundatis, luteolis, hyalinis, 12-14 \approx 2.

Hab. in ramis *Ceanothi* in California (HARKNESS).

- * 17. **Diatrype megastoma** Ell. et Ev. in Journ. of Myc. 1885, p. 141. — 6291
Stromatibus orbicularibus, corticalibus, 2-3 mm. lat. linea nigra, in lignum penetrante circumscriptis, subinde confluentibus v. subconfluentibus, in 5-10 series dispositis, rima longitudinali epidermidem rumpentibus; peritheciis 15-20 in quoque stromate, orbicularibus, vel ovatis, contextu denso, atro, membranaceo, sursum in collum subtile desinentibus; ostioliis latis, prominulis, 4-5-stellato-sulcatis; ascis gracilibus, clavatis, 75-80 \approx 6-7, p. sp. 35-40; paraphysibus copiosis primum distinctis, asco longioribus, demum obsolete; sporidiis cylindræcis, luteolis, arcte curvatis, sæpius utrinque uninucleatis, sursum subdistichis, 5-6 \approx 2.

Hab. in truncis emortuis *Alni serrulatae*, Newfield Amer. bor. — Adest intermixta *Libertellæ* sp. sporulis filiformibus, curvatis, 20-25 \approx 1, verisimiliter status spermogonicus.

- * 27. **Diatrype minima** Ell. et Ev. in Journ. of Myc. 1885, p. 91. — 6292
Stromatibus corticalibus, ex cortice parum mutato efformatis, 1-2 mm. diam. linea nigra in lignum penetrante circumscriptis; peritheciis 8-12 in quoque stromate, globosis, 1,6-1,5 mm. diam., membranaceis, ostioliis nigris, nitentibus, demum distincte perforatis; ascis cylindræcis, 78-80 \approx 2- $\frac{1}{3}$ -3, obscure (vel non?) paraphysatis; sporidiis monostichis, oblongo-ellipticis, 2-nucleatis, luteolis vel fere hyalinis, 5-7 \approx 2.

Hab. in ramis *Magnoliæ glaucæ*, Newfield Amer. bor.

- * 29. **Diatrype sordida** (Pers.) Cooke in Grevillea XIII, p. 38, *Sphæria sordida* Pers. Syn. 25 et Sacc. Syll. H, p. 373. — 4145
Sporidia allantoidea, 12 μ . longa.
- * 30. **Diatrype annulans** (Schw.) Cooke in Grevillea XIII, pag. 38, 4157
Sphæria annulans Schw. Syn. Amer. bor. n. 1270 et Sacc. Syll. II, p. 375. — Sporidia allantoidea, 8 μ . longa.
- * 33. **Diatrype albo-pruinosa** (Schw.) Cooke in Grevillea XIII, p. 37, 4143
Sphæria albo-pruinosa Schw. Syn. Amer. bor. n. 1238 et Sacc. Syll. II, p. 371. — Sporidia allantoidea, pallide fusca, 20-22 \approx 4.
- * 34. **Diatrype Berberidis** Cooke in Grevillea XIV, p. 14. — 6293
Stromatibus verrucæformibus, innato-erumpentibus, oblongis vel confluentibus, scabris, atris, ligno affixis; peritheciis minimis, nume-

rosis; ascis clavato-stipitatis, octosporis; sporidiis allantoideis in parte sporifera stipatis, hyalinis, 14 \approx 2.

Hab. in ramis Berberidis vulgaris, Near Bristol (C. BUCKNALL).

37. **Diatrype smilacicola** (Schw.) Berk. North Amer. fungi p. 165, 62
 Confr. Cooke in Grevillea XIII, p. 37, *Sphæria smilacicola* Schw.
 in Fr. Elench. Fung. II, p. 71, *Sphæria smilacicola* Schw. Syn.
 Amer. bor. n. 1251 et Sacc. Syll. I, p. 370, n. 4137. — Sporidia
 allantoidea, 12-14 μ . longa.

DIATRYPEOPSIS Speg. Fungi Guar. pug. I, pag. 186 (Etym. a *Diatrype*). — Stroma a matricis substantia heterogeneum, erumpenti-superficiale, effusum. Perithecia stromate immersa, ostiolis rectis; Ascii octospori. Sporidia cylindraceo-elliptica, utrinque truncato-subrotundata, hyalina.

Obs. Genus pulchellum stromatis ac perithecorum habitu generi *Hypoxyton* et generi *Diatrype* accedens; sporidiis tamen ab utroque satis distinctum.

1. **Diatrypeopsis laccata** Speg. Fung. Pug. I, n. 186. — Stromatibus ligno subinnatis, primo tectis dein, ob corticem secedentem, nudis, irregulariter elliptico-elongatis, 5-10 mm. long. 1-2 mm. lat. 0,5-1 mm. crass., glabris, levissimis (vix sub lente valida dense minutissimeque punctulatis) atris, sublaccato-nitentibus; peritheciis dense constipatis, rectis, ellipticis v. obovatis, sæpe e mutua pressione angulosis, 250-300 μ . alt. 100-150 μ . diam., atris, coriacellis, ostiolo minuto, recto non v. vix stroma perforante donatis; ascis cylindraceis, 70-75 \approx 4, apice obtusissime rotundatis, basi modice attenuato-stipitatis, octosporis aparaphysatis; sporidiis recte monostichis, cylindraceis v. cylindraceo-subellipticis, utrinque truncatis v. vix rotundatulis, 6-7,5 \approx 3-4,5. grosse 2-guttulatis, hyalinis.

Hab. ad truncos emortuos putrescentes in silvis subvirginis prope Guarapi Bras. — Species prædistincta; an huc *Hypoxyton stygium* ducendum.

DIATRYPELLA Ces. et De Not. — Sacc. Syll. I, p. 200.

- *1. **Diatrypella Populi** E. et Hol. in Journ. of Myc. 1885, pag. 4. — 62
 Peritheciis cartilagineis, ovoideis vel mutua pressione subangularibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam. in stromate orbiculari, 2-3 mm. diam., extus brunneo-nigro. intus sordide albo, cortice interiore immerso nidulantibus; ostiolis brevibus, crassis, obscure 4-sulcatis, in disco ob-

seure nigro coalitis vel separate epidermidem perforantibus; ascis longis, clavatis, 100-115 \approx 15; sporidiis cylindraccis, luteolis, curvis 10-12 \approx 1,5 \approx 2.

Hab. in ramis emortuis Populi in Amer. bor.

Sect. 2. Phæosporæ Sacc.

CERATOSTOMA Fr. — Sacc. Syll. I, p. 215.

10. **Ceratostoma caulincolum** Fuck. — Sacc. Syll. I, p. 317, Winter ¹⁾ 780
in Hedwigia 1886, p. 101. — Perithecia demum sæpe emersa, tenuissime membranacea, 180-210 μ . diam., rostro sæpe curvato prædita; sporidia conglobata, cuboidea h. e. late ellipsoidea, utrinque truncata, longitudinaliter striata, 7-8 \approx 5-6.

*10. **Ceratostoma melanosporioides** Winter in Hedwigia 1886, p. 101, 6297
C. caulincolum forma *Echii* Winter. — Peritheciis immersis, plerumque gregariis, depresso-subglobosis, membranaceis, fuscidulis 180-210 μ . diam., rostro longissimo, sæpe curvato, fusco, apice albo-fimbriato emersis; ascis ovatis vel piriformibus, breviter stipitatis, 8-sporis, 23-26 \approx 10-11; sporidiis subellipsoideis, utrinque rotundatis, pallide fuscis, 6 \approx 4.

Hab. in caulibus emortuis *Echii*, Leipzig Saxoniam.

*22. **Ceratostoma ?? foliicolum** Fuck. in Die zweite deutsch. Nordpolarf. 6298
p. 94, t. I, fig. 7. — Peritheciis *Gnomoniarum* habitu, sparsis, primo tectis, ostiolo longissimo, aterrimo exserto, demum subliberis, globosis, minutis, atris; ascis nondum visis; sporidiis perfecte globosis, nucleatis, episorio levi, luteolo, 8 μ . diam.

Hab. in pagina inferiore foliorum aridorum *Salicis arcticæ* Sabine Insel Grœnlandiæ.

MICROASCUS Zukal Ein nev. Pilze Myx. Bakt. pag. 9, fig. 3 (Ety. *micro*s parvus et *ascus*). — Perithecia subcarbonacea, rostrata (setulosa, fimicola). Asci globulosi, subgelatinosi, octospori in quoque sporophoro septato plures, pleurogeni. Sporidia lunulata, fusca (muco obvoluta). Genus *Ceratostomati* affine, a quo distinguitur sporophoris septatis, irregularibus, ascos globosos, gelatinoso-tunicatos subsessiliter pleurogenos gerentibus.

1. **Microascus longirostris** Zukal Ein nev. Pilze Bakt. Myx. pag. 9, 6299
tab. XV, fig. 3. — Peritheciis globosis, nigris, carbonaceis, sparsis vel gregariis, 400 μ . altis, matrice subimmersis, ostiolo cylin-

1) Emendationes quedam ad diagnoses Sylloges a cl. Winter in Hedwigia 1885-86 datae, tam parvi momenti sunt ut potius ætati vel constitutioni individui tribuendæ sint; quare hic consulto omittuntur.

draceo, pilis rigidis, cuspidatis obsito, 150-200 \approx 18-24; ascis globosis subgelatinosis, 30-36 μ . diam., aparaphysatis, octosporis, in sporophoris septatis, irregularibus, pleurogeno-subsessilibus; sporidiis crasse lunulatis, utrinque acutis, strato mucoso angusto obvolutis, 4-5 \approx 2-3, levibus, brunneis.

Hab. in stercore canino, socio *Exoasco Reesii*, Wien Austriae.

CHÆTOMIUM Kunze. — Sacc. Syll. I, p. 220.

9. **Chætomium Fieberi** Corda. — Sacc. Syll. I, p. 223, * **C. Saccardia-** num Bomm. et Rouss. in litt. Sacc. in Misc. Myc. I, pag. 17. — Peritheciis minutis, $\frac{1}{8}$ mm. diam., mox collabascendo cupulatis; setulis filiformibus, fuligineis, 150 \approx 200 \approx 3, modice flexuosis, sursum denticulato-conidiophoris, conidia sphaerica, hyalina dein fuscidula, distincte muriculata, 8-9 μ . diam. gerentibus; sporidiis limoniiformibus, 9 \approx 7, fuligineis.

Hab. in charta putrescente. — Conidia modo descripta ab auctoribus nullis describuntur: an ergo species distinguenda?

*9. **Chætomium velutinum** E. et E. in Journ. of Myc. 1885. — Peritheciis ovatis, membranaceis, gregariis, non vel vix confluentibus, subiculo velutino, denso immersis, setis olivaceo-nigris, apice rectis, basi subtilioribus, ramosis praeditis; sporidiis amygdaloideis, brunneis, 11-12 \approx 6-7.

Hab. in ligno Aceris udo in Amer. bor. (CARPENTER).

*12. **Chætomium cymatotrichum** Cooke in Grevillea XII, p. 21. — Gregarium; peritheciis depresso globosis, 200 μ . d., ubique lanosis, olivaceo-fuligineis, ostiolo atro; pilis tenuibus, simplicibus, glabris, intertextis, numerosissimis, gyroso-flexuosis, fuscis; ascis piriformibus; sporidiis globosis ovatisve, leniter utrinque apiculatis vel obtuse rotundatis, fuligineis, 10 \approx 8.

Hab. in foliis Solani Dallachii, Johnstone River, N. Queensland Australiae (BERTHAND).

BOMMERELLA Marchal in Bull. Soc. Royal Bot. Belg. 1885, p. 1 (Etym. a dom. Bommer, peritissima mycologa Bruxellensi). — Perithecia superficialia, sparsa, ostiolata, contextu parenchymatico fuligineo, setis vestita. Ascis octospori, pedicellati, aparaphysati. Sporidia eximie triangularia, depressa. — Partibus externis similis est *Chætomio* a quo sporarum forma mox dignoscitur. Sistit etiam status conidiophorus *Oosporam* exhibens.

1. **Bommerella trigonospora** March. in Bull. Soc. Royal. Bot. Belg. 1885, p. 1. — Peritheciis e filamentis conidiophoris oriundis, primum

globosis dein ovoideis vel ellipsoideis, brevissime ostiolatis, 200-350 μ . \approx 150-200 μ . undique setosis; setis fuliginosis, sæpius rectis, remote septatis, initio asperulis dein levibus. terminalibus longioribus et densioribus, 300-430 μ . \approx 4,4-5 μ .; ascis numerosis clavatis, apice acutiusculis, breviter stipitatis. aparaphysatis, 50-70 μ . \approx 7,5-9 μ .; sporis subdistichis, plane triangularibus, biconvexis, 7,6-9 μ . diam. et 4-4,3 μ . crassis, primitus 1-3-guttulatis et hyalinis tandem fuliginosis.

Hab. supra fimum leporinum in ericetis prope Ærschot Belgii. — Status conidicus: **Oospora trigonospora** March. in Rev. Myc. 1886, pag. 101. Cæspitulis tenuibus, late effusis, albis; hyphis repentibus intricatis, vage ramosis, filiformibus, initio continuis dein remote septatis, 1,5-2,5 mm. altis, 2-3,2 μ . crassis; conidiis copiosissimis, nonnullis secus hypharum partes inferiores sessilibus v. breviter pedicellatis, plerisque in catenulas elongatas, flexuosas adscendentesque digestis, globosis, hyalinis, 7,3-9 μ . diam. — Cum statu ascophoro ibidem.

SORDARIA Ces. et De Not. — Sacc. Syll. I, p. 230.

*20. **Sordaria sparganicola** Phill. et Plowr. in Grevillea XIII, p. 76. 6303
— Peritheciis atris, globosis, superficialibus, setis atris, intricatis tectis; ostioliis prominentibus, rotundatis; sporidiis ellipticis, obscure brunneis, utrinque truncatis et appendicula hyalina, cylindrica ornatis, 12 \approx 8.

Hab. in emortuo Spargano, Vattan Britannicæ (BUCKNALL).

HYPOCOPRA Fuck. — Sacc. Syll. I, p. 240.

*3. **Hypocopa Saccardo** March. Fungi Coproph. pag. 23, tab. III, 6304
f. 7-9. — Perithecia subgregaria, semiimmersa, atra, 240-280 μ . alta, globosa, cum ostiolo conico brevi, crasso, setulis nigrofuscis, rigidis, 20-25 μ . \approx 2-3 instructo, deorsum villo fusco obsita; asci cylindraceuti, breviter stipitati, apice rotundati, 8-spori, 120-160 μ . \approx 8,8-10 μ ., aparaphysati; sporidia oblique monosticha, ellipsoidea, initio flavida, translucida, dein fuliginea, strato muco hyalino fluxili obvoluta, 17-17,5 μ . \approx 7,5-8. μ .

Hab. in fimo cuniculorum prope Neufchâteau Belgii. — Species eximio mycologo P. A. Saccardo merito dicata,

COPROLEPA Fuck. — Sacc. Syll. I, p. 248.

*3. **Coprolepa Kickxii** March. Bull. Soc. Roy. Bot. Belg. 1885, p. 1. — 6305

Peritheciis aggregatis, saepe omnino stromate crustaceo, late effuso, extus nigro, villosa, pilis septatis, 150-250 \approx 3-4,5, brunneo-fuliginosis vestito, immersis, globosis, ostiolo papillaeformi, nigro, matricis superficiem vulgo vix superante; ascis cylindratis, stipitatis, 8-sporis, 145-180 \approx 13-17, paraphysibus linearibus, remote septulatis, 5 μ . crassis, insigniter guttulatis obvallatis; sporidiis oblique monostichis, ovoideis, primum sordide luteolis dein fuscis, opacis, 13-14,5 \approx 6,7-7, strato hyalino, lato obvolutis.

Hab. supra fimum leporinum in abietis circa pagum Beggenendijck in Belgio. — *C. equorum*, cui affinis, paraphysibus atque exiguitate sporidiorum distincta.

MÜLLERELLA Hepp. in Müller, Principes de Classif. des Lichens, in Mémoires de la Société de Phys. et d'Hist. nat. de Genève t. XVI, II.^{eme} partie et Wint. in Hedw. 1886, pag. 18 (Etym. a cl. botanico MÜLLER). — Perithecia plus minusve immersa, globosa, atra, poro pertusa. Asci polyspori. Sporidia unicellularia, fusca. Paraphyses indistinctae.

1. **Müllerella polyspora** Hepp. in Müller Principes de Classification des Lichens, in Mémoires de la Société de Phys. et Hist. nat. de Genève t. XVI, II.^{eme} partie et Wint. in Hedw. 1886, pag. 18. — Peritheciis minutissimis, globosis, primo fere omnino immersis, demum plus minusve prominulis, vertice pertuso, $\frac{1}{6}$ - $\frac{1}{8}$ mm. latis, sparsis vel 2-3 aggregatis; ascis oblongo-vel cylindratis-ovatis, membrana tenui praeditis, 50-60 μ . longis, 150-sporis; paraphysibus mucosis; sporidiis oblongo-ellipticis, guttulis 2 oleosis, fuscis, 5-7 \approx 2 $\frac{1}{2}$ -3,5.

Hab. in thallo Biatorae luteolae in Germania.

HAPLOSPORIUM Mont. Ann. 2, XX, p. 372 et Fl. Alg. I, 543, cum icone (Etym. ab *Haplos* et *spora*). — Perithecium innato-erumpens, integrum, ovato-conoideum, apice poro pertusum, atrum, nitidum. Nucleus gelatinoso-filamentosus, ascis monosporis mature solutis et evanidis paraphysibusque continuis hyalinis intricatis fartus. Spora magna, globosa, rugosa, tandem nigra, opaca, episporio celluloso, subfoveolato, fragili nucleoquo granuloso insignis.

1. **Haplosporium Bulborum** Dur. et M. Syll. Crypt. n. 956, l. l. c. e., t. 25, f. 2. — Characteres iidem ac generis; ascis clavato subpiriformibus, 100-120 \approx 20-30; sporidiis globosis, 50 μ . d. (generis).

Hab. in tunicis exterioribus bulborum Scillæ peruvianæ cica Oran Africæ borealis (DURIËV).

ROSELLINIA (Fr.) De Not. — Sacc. Syll. I, p. 252.

1. **Rosellinia aquila** (Fr.) Ces. et De Not. Sacc. Syll. I, p. 252, Win- 916
ter in Hedwigia 1885, p. 100. — Var. **glabra**: ascorum parte sporif. 140-165 \approx 7; sporidia 19-23 \approx 6. — Var. **byssiseda**: subiculo pulvinato, parum effuso, ex hyphis ramosissimis, dense intricatis contexto; peritheciis globosis, papillâ minutâ præditis, opacis, atris, confertissime greges parvos formantibus.

*2. **Rosellinia Macouniana** Ell. et Ev. in Torr. bot. Club. 1884, p. 6308
74. — Gregaria, superficialis; peritheciis ovatis, 330 μ . diam., tomento purpureo, brevi, tenui undique (excepto ostiolo prominulo) tectis; ascis acutis, 100 et ultra μ . longis; sporidiis monostichis, 19-22 \approx 6, binucleatis, brunneis, oblongis vel subnavicularibus.

Hab. in ligno putri, Ottawa, Canada Amer. bor. (MACOUN).

*3. **Rosellinia quercina** Hart. Lehr. Baumkrank. p. 100, t. VIII, IX. 6309
— Peritheciis sparsis vel subgregariis, subiculo filamentoso *Rhizoctonicæ* insidentibus, atris, majusculis, globosis, obtuse papillatis, circ. 1 mm. diam., levibus; ascis cylindræis vel subclavatis, basi sensim attenuatis, longe stipitatis apice foveolatis, 160-170 \approx 8-10, octosporis; sporidiis oblique monostichis vel sursum distichis aut fere tristichis, fusoides, guttatis, utrinque acutis, 28 \approx 6-7, fuscis.

Hab. in radicibus juvenilibus *Quercus Rhizoctonicæ* affectis, Berlin Germaniæ.

4. **Rosellinia Pardalios** (Berk. et Curt.) Cooke in Grevillea XIII, 4126
p. 37, *Sphæria Pardalios* B. et C. in Pac. expl. p. 128, n. 157, et Sacc. Syll. II, p. 367. — Sporidia elliptica, brunnea, μ . longa.

*25. **Rosellinia callimorpha** Karst. in Hedw. 1884, n. 6, p. 1. Rev. 6310
atque Synop. Ascom. fenn. p. 75. — Peritheciis conglomeratis vel confluentibus, superficialibus, sphæroideis, ostiolo papillæformi, levibus, glaberrimis, tenuibus, non collabentibus, fragilibus, opacis, fusco-atris, 5-8 mm. lat.; ascis 80 (pas. sporif.) \approx 6; sporidiis monostichis, oblongatis, vulgo inæquilateralibus, eguttulatis, utrinque obtusiusculis, muticis, dilute fulvis, 9-11 \approx 3-4.

Hab. in ligno vetusto Alni incanæ prope Mustiala.

34. **Rosellinia obliquata** (Somm.) Sacc. Syll. I, pag. 260, Winter in 940
Hedwigia 1885, p. 100. — Perithecia gregaria, plerumque conferta, globosa vel late conoidea, sæpe in ostiolum attenuata, rarius ostiolo distincto, papillæformi prædita, interdum demum collapsa atra, glabra, levia, nitida, sæpe oblique insidentia, 0,3-0,4 mm,

diam.; asci cylindracei, deorsum longe attenuati, apice truncati incrassatique, 8-spori, 130-140 \approx 8; sporidia monosticha, late ellipsoidea, compressa, fusco-atra, 10-12 \approx 7; paraphyses filiformes, diffluentes.

- *36. **Rosellinia Molleriana** Wint. Cont. Flor. myc. Lus. Ser. VI, p. 10, 631
 — Peritheciis superficialibus, sparsis seu 3-6 (rarius plur.) densissime aggregatis, sæpe confluentibus seu concrenentibus, globosis vel irregularibus, rugoso-subtuberculosis, atris, opacis, glabris, non raro in collum conicum seu subcylindricum attenuatis, 1-1 $\frac{1}{4}$ mm. lat.; ascis elongato-subclavatis, in stipitem longum attenuatis, sursum parum angustatis, apice rotundatis, non incrassatis, 8-sporis, 140-150 \approx 16; sporidiis inordinatis seu oblique monostichis, in asci parte media subdistichis, oblongis, utrinque parum attenuatis, inæquilateralibus, fusco-nigris, guttula magna præditis, muticis, 19-21 \approx 7.

Hab. in cortice vetusto Lauri nobilis circ. S. Bento prope Coimbra in Lusitania (MOLLER).

53. **Rosellinia pulveracea** (Ehrh.) Fuck. — Sacc. Syll. I, p. 264, var. 698
platysporella Speg. Fung. Guar. Pug. I, n. 187. — Peritheciis densissime confertis, plagas atras granulosas, subcrustaceas, latissime matricem obtegentes efficientibus, globosis, minutis, 120-180 μ . diam., nigris glabris, dense granuloso-rugosis, coriaceis subcarbonaceis, opacis, ostiolo impresso, pertuso donatis; ascis cylindraceis, apice truncatis, basi modice attenuato-stipitatis, 65-70 \approx 8, octosporis, paraphysibus crassiusculis, septulatis, raris obvallatis; sporidiis oblique vel recte monostichis e fronte ellipsoideo-sphæroideis, 8-10 \approx 7-8,5 e latere compressis, 2-3 μ . crassis, primo olivaceis, dein opace fuliginis.

Hab. ad lignum denudatum truncorum Citri Aurantii pr. Guarapì Bras.

- *56. **Rosellinia rugulosa** Schulz. et Sacc. in Rev. Myc. Schulz. Ill. 631
 Fung. Slav. n. 259. — Peritheciis gregariis v. subsparsis, superficialibus, globoso-conicis obtusiusculis, minutissime rugulosis, atris, $\frac{1}{6}$ - $\frac{1}{7}$ mill. diam.; ascis cylindricis paraphysatis, subsessilibus, octosporis; sporidiis oblique monostichis, ellipsoideis utrinque rotundatis, 10 \approx 6,1-4, guttatis, fuliginis.

Hab. in cortice emortuo Piri Mali prope Vinkovce Slavoniæ.
 — Affinis *Roselliniæ rimiricolæ*.

- *76. **Rosellinia horridula** Sacc. in Barbey Fl. Sard. Comp. p. 248. 631
 — Peritheciis gregariis e basi insculpta superficialibus, globoso-

conicis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., atris carbonaceis, setulis longis, atris parce vestitis; ostiolo papillato saepe longiusculo; ascis teretibus, deorsum attenuato-stipitatis, 140-150 \approx 15-20, paraphysatis, 8-sporis; sporidiis oblique monostichis ellipsoideo-subrhombeis, 25-30 \approx 12-14, 1-guttatis, fuliginis.

Hab. in trunco decorticato Opuntiae prope Torralba Sard. (MARCUCCI).

79. **Rosellinia sordaria** (Fr.) Rehm. — Sacc. Syll. I, p. 270, Winter in Hedwigia 1885, p. 100. — Perithecia glabra. 994
- * 89. **Rosellinia rhynchospora** Harkn. New Calif. Fungi p. 21. — Peritheciis globoso-conoideis, dense aggregatis, superficialibus, areas latas tegentibus, sursum setis nigris, brevibus, omnino tectis; ascis octosporis, cylindraceutis, 96 \approx 10, paraphysibus filiformibus obvallatis; sporidiis oblique monostichis, continuis, ovoideis vel ellipsoideis, obscure brunneis, utrinque appendicula curvula, $\frac{1}{3}$ - $\frac{1}{2}$ longitudinem sporidii aequante, 15-18 \approx 9. 6314
- Hab.* in ramis decorticatis Sambuci glaucae, Blue Canon Californiae.
86. **Rosellinia subcorticalis** Fuck. Sacc. Syll. I, p. 272, Winter in Hedwigia 1885, p. 100. — Sporidia elliptica, 9-12 \approx 7-8. 1001
- * 98. **Rosellinia spinosa** Harkn. New Calif. Fungi p. 22. — Peritheciis superficialibus, gregariis, globosis, 300 μ . diam., setis numerosis, flaveolis, saepe ramosis, 200-300 \approx 18-22, tectis; ascis 8-sporis, cylindraceutis, breviter stipitatis, 50 \approx 12; paraphysibus filiformibus; sporidiis ovato-ellipticis, bicellularibus, loculo superiore $\frac{2}{3}$ - $\frac{3}{4}$ sporidii longitudinem aequante, olivaceo-brunneo, crasse 1-nucleato, loculo inferiore (vel appendicula) conoideo, hyalino, 9 \approx 4. 6315
- Hab.* in corticibus putridis Eucalypti, S. Francisco Californiae.
- * 99. **Rosellinia? arctica** Fuck. in Die zweite deutsch. nordpolar. p. 95, tab. I, fig. 10 sub *Rhizomorpha*. — Stromate adnato, crustoso vel tenuissime effuso, fusco; peritheciis gregariis, saepe confluentibus, raro sparsis, semi vel totis liberis, carbonaceis atterimis, $\frac{1}{2}$ mm. diam.; subrugulosis, globosis sed antice late conicis, ostiolo brevi, cylindraceuto, truncato, perforato; sporidiis (endosporis?) fusiformibus seu subovatis, plerumque inaequilateralibus, guttulatis, fuscis, 12-14 \approx 6-8. 6316
- Hab.* in radicibus putridis Salicis arcticae, Kaiser-Franz-Josephs-Fjord, Grœnlandiae.
- * 100. **Rosellinia ipalustris** Schröter Über ein. von R. Fritze Mad. und Ten. ges. Pilze p. 4. — Peritheciis gregariis, globulosis, carbona- 6317

ceis, fragilibus, circiter 0,5 mm. diam., ostiolo conoideo, minuto apice pertuso, basi tomento myceliali, nigro cinctis et undique setis brunneo-nigris, rigidis, 50-60 \approx 5-7, subulatis vestitis; ascis cylindraceis, longe pedicellatis, 260-300 \approx 10-11 p. sp., apice truncatis, octosporis; sporidiis oblique monostichis, ellipsoideo-fusiformibus, inæquilateralibus, 27-35 \approx 10-12, brunneo-nigris.

Hab. in algis gelatinosis limo tectis in insula Madeira.

ANTHOSTOMELLA Sacc. — Syll. I, p. 278.

- *8. **Anthostomella palmicola** (Auersw.) Rabenh. Fungi eur. n. 2522 631
in Barbey Fl. Sard. Comp. p. 205. — Peritheciis globosis, minutissimis, hypophlæoideis, sparsis, membranaceis, e cellulis minutis contextis, (astomis); ascis creberrimis, cylindricis, 8-sporis, paraphysibus filiformibus, mucosis obvallatis; sporidiis uniserialibus, ovalibus, integris, fuscis, maturis impellucidis.

Hab. in foliis Chamæropis humilis pr. Alyhero Sardiniae.

- *10. **Anthostomella paraguayensis** Speg. Fungi Guar. Pug. I, n. 188. 631
— Peritheciis matrice pallide nigrescente insidentibus, primo tectis, dein erumpenti-semiimmersis, densiuscule gregariis, sæpius subseriatim dispositis, e globoso-conoideis, parvulis, 150-200 μ . diam., atris, levibus, glabris, coriaceo-membranaceis, contextu atro, subopaco, dense minuteque parenchymatico-rimoso, ostiolo papillulato, per ætatem deciduo, sæpe subhysteriatim dehiscente coronatis; ascis cylindraceis, apice truncatis vel obtuse rotundatis, basi modice attenuato-stipitatis, 60-75 \approx 4-6, octosporis, aparaphysatis; sporidiis recte vel oblique monostichis e fronte ellipsoideis, rarius subinæquilateralibus, 10 \approx 5, e latere compressis, 2,5 \approx 3, utrinque rotundatis, non vel 1-2-crasse guttulatis, obscure fuligineis.

Hab. ad culmos dejectos Sacchari officinarum in cultis prope Guarapí Bras.

- *25. **Anthostomella pholidigena** (Ell.) Berl. et Vogl. *Sphæria pho-* 632
lidigena Ell. in Torr. bot. Club. 1883, p. 51. — Peritheciis subcuticularibus, erumpentibus, hemisphæricis, rugosis, 330-500 μ . diam.; ostiolis vix prominulis, poro amplo pertusis; ascis cylindraceis, 114 \approx 7, paraphysibus copiosis obvallatis; sporidiis monostichis, acutis, ellipsoideis, continuis, brunneis, 7-10 \approx 5-6.

Hab. in strobilis Pini in America boreali.

- *27. **Anthostomella Oreodaphnes** (Cooke et Harkn.) Berl. et Vogl. 632
Sphæria oreodaphnes Cooke et Harkn. in Grevillea XIII, p. 18.
— Sparsa, innata epidermide, tecta; peritheciis globosis, epider-

mide tumidula et leniter nigrificata velatis, vix papillatis; ascis cylindraceis, octosporis; sporidiis arcte ellipticis, utrinque rotundatis, fuscis, 14-15 \approx 4.

Hab. in foliis Umbellulariæ in California (HARKNESS).

- *28. **Anthostomella ostiolata** Ell. et Ev. in Torr. bot. Club. 1884, 6322
p. 42. — Peritheciis solitariis vel 2-4 aggregatis, 0,33-0,5 mm. diam. in cortice interiore, immutata fere penitus immersis, sursum prominentibus, epidermide nigrefacta tectis et ostiolo brevi, obtuso perforata; ascis cylindraceis, 80-85 \approx 7-8, paraphysibus linearibus obvallatis; sporidiis oblique monostichis, oblongo-ellipsoideis, brunneis, 1-2 nucleatis, 10-13 \approx 4-5.

Hab. in ramulis emortuis Lauri, Benzoin Amer. bor. — Affinis *A. limitatæ* et *A. intermediæ*

- *29. **Anthostomella phormicola** (Cooke) Berl. et Vogl. *Sphæria phormicola* Cooke in Grevillea XII, p. 85. — Sparsa, tecta; peritheciis globosis, atris, sub cuticula dealbata nidulantibus, ostiolo impresso; ascis cylindraceis; sporidiis ovalibus, continuis, atro-fuscis, 90-100 \approx 7.

Hab. in florum pedunculis Phormii, New Zealand (KIRK).

- *30. **Anthostomella africana** (Kalchbr. et Cooke) B. et V. *Sphæria africana* Kalch. et Cooke in Grevillea. — Sparsa, caulicola, erumpens; peritheciis subglobosis, atris, nitidis, pertusis, semiemersis; ascis cylindraceis; sporidiis uniseriatis, amygdalæformibus, atro-fuscis, opacis, 22-32 \approx 12-15.

Hab. in caulibus herbaceis in Africa australi.

- *31. **Anthostomella brachystoma** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, p. 5. — Peritheciis globosis, $\frac{1}{3}$ mm. diam., ligno immersis in ostiolum crassum, breve, obtusum, late perforatum desinentibus; ascis non visis; sporidiis oblongo-ellipsoideis vel subnavicularibus, brunneis, dein opacis, 22-25 \approx 11-12.

Hab. in ligno putri Tsugæ Pattonianæ in Monte Paddo Americæ borealis.

- *32. **Anthostomella? Rhizomorpha** (Kunze) Berl. et Vogl. *Sphæria Rhizomorpha* Curr. On the fructific. Sph. n. 370, tab. LIX, fig. 139. — «Peritheciis.....»; ascis amplis, saccatis sursum rotundatis, basi in pedicellum brevem attenuatis, 138 \approx 46, octosporis; sporidis stipatis, brunneis vel dein obscuris, sed non opacis, 30-40 μ . longis.

Hab. in foliis..... verisimiliter in Britannia.

ANTHOSTOMA Nits. — Sacc Syll. I, p, 293.

- * 1. **Anthostoma atro-fuscum** (Berk. et Curt.) Berl. et Vogl. *Fuckelia* 63
atro-fusca Berk. et Curt. in Herb. Berk. 9004 et Cooke in Grevillea
 XII, p. 51. — Erumpeas, pustulis minimis, vix $\frac{1}{2}$ mm. diam., ellipti-
 cis, cortice marginatis; peritheciis inæqualiter in stromate atro,
 depresso congestis; ascis cylindricis, stipitatis; sporidiis ellipticis,
 fuscis, 13 \approx 7.

Hab. in cortice Rhois glabræ in montanis Virginia Ame-
 ricæ borealis.

1. **Anthostoma melanotes** (B. et Br.) Sacc. Syll. I, p. 294 ***A. longiascum** 10
 Berl. Fungi Moric. fasc. II, t. 3, f. 1-7. — Stromate crustaceo, effuso,
 ligno parum prominenti vel ejus superficiem nigrificante ac ma-
 culas elongatas aut subrotundas, sæpe confluentes, fuscescentes vel
 tandem nigricantes, opacas efficiente, postremo intus quoque ni-
 grolimitato; peritheciis majusculis, depresso globosis, omnino in
 subiculo furfuraceo, flavido immersis, laxè sparsis, ostiolo exer-
 to, minutissimo, integro, conico vel hemisphærico, nitidulo, tan-
 dem perforato instructis; ascis cylindricis, longissime pedicellatis,
 190-200 \approx 6-7 et parte sporifera 70-75 \approx 6-7, apice 1-2-foveolatis,
 paraphysibus filiformibus, simplicibus obvallatis, tunica crassiu-
 scula præditis, octosporis; sporidiis oblique monostichis, obtuse
 fusiformibus vel ovoideis, rectis vel rarius nonnihil inæquilatera-
 libus, 10-12 \approx 5, fuliginèis, sæpe biguttulatis.

Hab. in ligno decorticato et indurato Mori albæ, Fiumicello
 Ital. bor.

- * 6. **Anthostoma amplisporum** (Cooke) Berl. et Vogl. *Fuckelia ampli-* 63
spora Cooke in Grevillea XII, p. 51. — Stromate diatrypoideo, pu-
 stulato, peridermio primo tecto, demum stellato-fissurato, promi-
 nulo, 1-2 mm. diam.; peritheciis paucis, in singulo stromate, 4-6,
 monostichis, majusculis globosis, tenuibus; ascis cylindricis, bre-
 viter stipitatis; sporidiis uniserialibus, ellipticis, utrinque obtusis,
 fuscis, 16 \approx 10.

Hab. in corticibus verisimiliter Quercus in America boreali.

- * 10. **Anthostoma chionostomum** Speg. Fung. Guar. Pug. I, n. 189. 63
 — Stromate longe lateque effuso, cortice non vel vix mutato in-
 nato parumque manifesto, intus atro; peritheciis hinc inde subse-
 riatim aggregatis, epidermide tectis, stromate immersis, e conoi-
 deo-globosis, 750-900 μ . diam., coriaceo-membranaceis, contextu
 inconspicuo, atro, opaco, ostiolo crassiusculo, brevi, recto, subte-
 rete, matricis stromatisque superficiem attingente, non vel vix

exerto ac corticem subpustulatum elevante, disculum parvulum, centro pertusum, niveum exerente; ascis cylindræis, antice obtuse rotundatis atque crassissime tunicatis perforatisque, postice breviter attenuato-pedicellatis, 150-180 \approx 15-20, paraphysibus crassiusculis, guttulatis, raris, obvallatis, octosporis; sporidiis oblique monostichis, ellipticis, 26-34 \approx 12-20, utrinque rotundatis, rectis vel inæquilateralibus, plus minusve intense ac subopace fuliginis.

Hab. ad corticem putrescentem arborum in silvis subvirginis prope Guarapí Bras. — Species pulcherrima, corticem ostioli candidis perforantibus, mox dignoscenda!

- *13. **Anthostoma stomaticum** (Cooke) Berl. et Vogl. Cooke *Botryo-* 6330
sphæria stomatica Cooke in Grevillea XIII, pag. 102, *Sphæria stomatica* Schwein. in Herb. Berk. — Latissime effusa, emergens, lignum atro inquinans; peritheciis semiimmersis, majusculis, ostioli validis, prominentibus, cylindræis, obtusis, insignibus; ascis clavatis, octosporis; sporidiis ellipticis, continuis, fuscis, 12-13 \approx 5.

Hab. in ligno putri, Indiana Amer. bor. (SCHWENIZ).

- *22. **Anthostoma? gigasporum** (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6331
ria gigaspora Cooke et Hark. in Grevillea XIII, p. 18. — Sparsum, subimmersum, tuberculis orbicularibus, elevatis tectis e substantia matricis efformatis; peritheciis globosis, magnis, 1½-2 mm. diam., ostiolo obtuso, nigro præditis; ascis amplis, saccatis, octosporis; sporidiis elongato-ellipticis, utrinque leniter attenuatis, continuis, 65-80 \approx 25-30, atro-fuscis.

Hab. in sarmentis decorticatis in California (HARKNESS).

— Habitu *Anth. cubiculari* affine.

- *23. **Anthostoma Carteri** (Berk. et Cooke) Berl. et Vogl. *Fuckelia* 6332
Carteri Berk. and Cooke in Grevillea XII, p. 51. — Erumpens, hemisphæricum, demum liberum, atrum, compositum, ½-1 mm. d., stromate corticali primitus fusco, velato; peritheciis tenuibus, membranaceis, subglobosis, immersis, vix papillatis; ascis cylindræis, substipitatis; sporidiis ovalibus, atro-fuscis, 12 \approx 9.

Hab. in corticibus, Bombay in India (D. CARTER).

- *32. **Anthostoma insidens** (Schw.) Berl. et Vogl. *Fuckelia insidens* 2341
Cooke in Grevillea XII, pag. 52, *Sphæria insidens* Schw. in Fr. S. Myc. II, 422, *Mirmaccium? insidens* Sacc. Syll. I, p. 601. — Effusum; stroma subrotundum, innatum, fusco-nigrum; perithecia emergentia, conferta, ovata, flexuosa (nec carbonacea), subpapillata; asci cylindrici; sporidia uniseriata, elliptica, pallide fusca, 8 \approx 4.

- Hab.* in ramis in America boreali. — Teste Fuckel, in exemplaribus Schweinitzianis, sporidia elliptica, continua, pallide fusca.
33. **Anthostoma gastrinum** (Fr.) Sacc. Syll. I, p. 303. Hue spectat teste Cooke (Grevillea XII, p. 49) *Sphæria irregularis* Fr. Syst. Myc. II, p. 361, Soverby t. 374, fig. 9, et Sacc. Syll. II, p. 372.

XYLARIA Hill. — Sacc. Syll. I, p. 309.

1. **Xylaria polymorpha** (Pers.) Grev. *var. fastigiata* Speg. Fungi Guar. Pug. I, n. 210. — Stromatibus basi longe repenti-rhizomorphae, simplicibus, tectis, dein erumpenti-exertis, erectis, brevibus, glabris, fusco-atris, abrupte 8-20 fasciculato-ramosis, ramis subteretibus, 5-10 cm. long., 2-4 mm. crass., apice obtusis, extus nigris, albo-pruinulosis, intus albis. Specimina nondum matura, iterum inquirenda.

Hab. ad radices truncorum putrescentium in silvis prope Guarapi Bras.

- *1. **Xylaria Mascarensis** Cooke in Grevillea XIII, p. 9. — Suberosa claviformis, simplex; clavula falcata, æquali, 17 cm. alta, 4 cm. lata, sicco-rugulosa, rubro-fusca, deorsum in stipitem æqualem, 7 cm. longum producta; peritheciis atris, globosis, subprominulis, ostiolo atro, punctiformi instructis; contextu albo; ascis immaturis.

Hab. in lignis, Central Madagascar (REV. R. BARON).

- *2. **Xylaria herculea** (Miquel) Cooke in Grevillea XIII, p. 9, *Sphæria* (Cordyceps) *herculea* Miquel Exot. fung. pag. 197, *Sphæria herculea* Sacc. Syll. II, pag. 442. — Receptaculo coriaceo-corneo, intus albido, extrorsum nigrescente ac carbonaceo-crustaceo, brevissime stipitato, oblongo vel subclavato, obtusissimo vel subattenuato, ostioli subprominulis nigro-punctato, ceterum griseo fuscidule obducto; ascis angustis, basi attenuatis, obscuris paraphysibus intermixtis; sporidiis simplicibus, ellipticis, obtusis.

Hab. in trunco denudato Artocarpi incisæ, Paramaribo.

30. **Xylaria biceps** Speg. — Sacc. Syll. I, p. 315 *var. microsperma* Speg. Fungi Guar. Pug. I, n. 212. — A typo vix differt sporidiis conspicue minoribus, 8-9 \approx 3-3,5, opace fuliginis.

Hab. ad truncos dejectos putrescentes in silvis prope Guarapi Bras.

- *36. **Xylaria Thwaitesii** Berk. et Cooke in Grevillea XII, pag. 1. — Suberosa, cylindrica, rigida, fragilis, obtusa, demum cava, 2,5-5 cm. alta, 0,6 cm. crassa; stipite brevi vel obsoleto, subcrasso, glabro; peritheciis carbonaceis, subglobosis, mediis ostioli haud pa-

pillatis; ascis cylindricis; sporidiis fusiformibus rectis curvulisve, fuscis, 15-18 \approx 5.

Hab. in lignis in insula Ceylon. — Affinis *X. fistulosa*, sed sporidiis latoribus, stromatibus externe levibus.

- * 44. **Xylaria cynoglossa** Cooke in Grevillea XII, p. 1. — Umbrina, 6335
linguæformis, 12-15 cm. longa, 3 cm. lata, brevissime stipitata, carne alba; peritheciis congestis, cylindraceis, atris, ostiolis leniter papillatis, atris; ascis cylindraceis; sporidiis arcte fusiformibus, rectis curvulisve, fuscis, 16-18 \approx 4.

Hab. in ligno, Tweed River in Britannia «(?)» (R. FITZGERALD).

- * 134. **Xylaria Fockei** (Miquel) Cooke in Grevillea XIII, p. 8, *Spha-* 4516
ria (Cordyceps) *Fockei* Miquel Fungi Exot. pag. 138, *Sphaeria Fockei* Sacc. Syll. II, pag. 442. — Stipite cylindrico, nigro receptaculum ellipsoideum v. obovoideum, obtusum superante, intus omnino coriaceo-corneo vel carbonaceo, nigrescente, crustula gilvo-albida partim obducto interque ostiola atra, punctiformia, tenera, subradiatim nigro-punctulato; sporidiis naviculari-ellipticis, acutis, simplicibus.

Hab. in truncis, Surinam.

USTULINA Tul. — Sacc. Syll. I, p. 350.

- * 1. **Ustulina tessulata** (Berk.) Cooke in Grevillea XII, p. 3, *Hypo-* 6336
wylon tessulatum Berk. in Herbario. — Stromate superficiali, pulvinato-lobato, undulato, maximo, crasso, tessulato-ruguloso, atrofulgineo, intus demum excavato; peritheciis compressis, stipatis, monostichis, periphericis; ostiolis punctiformibus; ascis cylindraceis; sporidiis lanceolatis, magnis, fuscis, 40-50 \approx 8-9.

Hab. in ligno, Bombay in India.

- * 2. **Ustulina microspora** Speg. Fungi Guar. Pug. I, n. 191. — Stro- 6337
matibus erumpenti-superficialibus, repando-pulvinatis, minutis, 5-6 mm. diam. 1-2 mm. crass., determinatis, margine tumidulo, rotundato, sæpe confluentibus, subcolliculosis, carbonaceis, glabris, atris, opacis, basi coarctatis, applanato-adnatis, intus (deorsum præcipue) albis; peritheciis stromate immersis, globoso-ellipticis, 750-900 μ . altis, 550-750 μ . diam. coriaceo-membranaceis, atris, opacis, ostiolo minuto, superficiem stromatis attingente ac non vel vix prominulo donatis; ascis cylindraceo-clavatis, sursum non vel vix rotundatis, p. sp. 80-110 \approx 8-14, deorsum plus minusve attenuato-pedicellatis, octosporis; paraphysibus densis, gracillimis obvallatis; sporidiis monostichis vel distichis, elongato-ellipticis, 20-25 \approx 7-8, utrinque acu-

tato-rotundatis vel subapiculato-limoniformibus, inæquilateralibus, subopace fuliginis.

Hab. ad corticem putrescentem truncorum in silvis pr. Guarapi Bras. — Species ludens inter genera *Hypoxylon* et *Ustulina*, sed secundum specimina observata, melius sub postremo militare videtur.

HYPOXYLON Bull. — Sacc. Syll. I, p. 353.

1. **Hypoxylon coccineum** Bull. — Sacc. Syll. I, pag. 353, *var. microcarpum* Bizz. Fung. Ven. novi v. crit. pag. 2. — Typo habitu subsimile; ascis cylindricis, longissimo pedicellatis, p. sp. 40-46 μ . longa; sporidiis oblique monostichis, oblongis, inæquilateralibus, 7-7,5 \approx 3,5-4.

Hab. in trunco emortuo decorticato Ulmi campestris in calidario Horti botanici patavini. — Status conidicus *Isaria umbrina*.

- *1. **Hypoxylon nectrioides** Speg. Fungi Guar. Pug. I, n. 196. — Stomatibus tuberculoso-pulvinatis, pulvinulis irregularibus, sparsis v. hinc inde aggregato-confluentibus, 3-5 mm. lat., 0,5-1 mm. crass., margine determinatis atque subcoarctatulis, primo rubris dein rubiginosis, pruinuloso-furfuraceis v. squarrulosis; peritheciis in pulvinulis, ad medium fere usque prominulis, globulosis, extus rubiginoso-squarrulosis, hyphis repentibus, septulatis, 3-3,5 μ . crass. ornatis, intus carbonaceis, atris, ostiolo mammillato, apice discoideo-applanato, 150 μ . diam. ac medio poro, 50-70 μ . diam. pertuso donatis; ascis mox diffluentibus, paraphysibus densis, obvallatis; sporidiis ellipsoideo-navicularibus, utrinque obtusiusculis, 12-15 \approx 7, opace fuliginis.

Hab. ad corticem putrescentem arborum frondosarum in silvis prope Guarapi Bras. — Species pulchella, externa facie formæ depauperatæ ac senescenti *Nectria cinnabarinæ* simillima.

- *4. **Hypoxylon dubiosum** Speg. Fungi Guar. Pug. I, n. 200. — Stomatibus majusculis, 5-10 mm. diam., solitariis v. aggregatis sæpeque confluentibus, hemisphærico-pulvinatis, 5-6 mm. crass., ambitu rotundato-coarctatulis, non v. vix repandulis, obsoletissime ruguloso-papillois, primo sordide griseo-fuscis (pruina deterrentis) dein (nudis) atris, intus fusco-griseis v. plumbeo-atris, radiatim fibrosis, non v. vix sericeo-nitentibus; peritheciis periphericis, monostichis, dense constipatis ellipticis v. subobovatis, e mutua pressione sæpe angulosis, 700-800 \approx 400-450, coriacellis, in stroma-

tis superficie non v. vix prominulis sed obsolete discoideo-applanatis, ostiolo vix lente valida perspicuo, non exertulo ac sæpe hysterioideo ornatis; ascis mox diffluentibus, non visis; sporidiis ellipticis v. navicularibus, utrinque obtuse acutatis, 12-14 \times 6-6,5, opace fuligineis.

Hab. ad corticem duriolem arborum dejectarum, putrescentium in uliginosis nemorosis prope Guarapí Bras. — Species pulchra *H. hypomitto* affinis; cum *H. solido* certe cognata, sed descriptione nimis imperfecta.

- * 5. **Hypoxylon polyporoideum** Berk. in Herb. Cooke in Grevillea XII, 6340 p. 53. — Pulvinatum, convexo-applanatum, ochraceum, demum rufescens 1-2 cm. latum; peritheciis minimis, numerosis, congestis, papillatis; ascis cylindræis; sporidiis ellipticis, fuscis, 12-14 \times 6.

Hab. in corticibus et lignis, River Binne, Tschaddi in Africa.

- * 33. **Hypoxylon subvinosum** Speg. Fung. Guar. Pug. I, n. 192. — 6341
Stromatibus latissime irregulariterque subpulvinato-effusis, 2-3 cm. subtenuibus, 0,5 mm. crassis, matrici arcte adnatis, margine sterili nullo, plus minusve undulato-tuberculosis vel scruposis, hinc inde rimulosis, densissime granulato-mammillosis, extus tenuissime pruinuloso-velutinis, griseo-subvinosis vel fusco-violascentibus, intus primo coffeicoloribus, dein fusco-atris; peritheciis monostichis, perdense constipatis, globosis, 300-400 μ . diam., e mutua pressione non vel vix angulosis, ad tertium superum tantum prominulis ac hemisphæricis, centro minute abrupteque papillulato-ostiolatis, carbonaceis; ascis cylindræis, longe stipitatis, p. sp. 70-80 \times 6-6,5, ped. 40-50, apice subtruncato-rotundatis, octosporis, paraphysibus subfluxilibus, vix longioribus, dense obvallatis; sporidiis recte vel oblique monostichis, elliptico-navicularibus, utrinque acutiusecule rotundatis, 10-11 \times 5-6, non vel crasse 1-guttulatis, opace fuligineis.

Hab. ad corticem putrescentem arborum in silvis prope Guarapí Bras. — Species *H. vinoso* affinis, sed intus non luteo-cerrina, nec margine sterili donata.

- * 34. **Hypoxylon plumbeum** Speg. Fungi Guar. Pug. I, n. 193. — 6342
Stromatibus matrice pulverulento-nigra facta insidentibus, discoideo-repandis ac convexo-pulvinatis, 3-6 mm. diam., 1-2 mm. crassis, margine determinatis, non vel vix coarctatis, sparsis vel subaggregatis sæpeque confluentibus, dense mammillosis, fere rubiformibus, extus primo pruinula subcrustacea, non deterrenti, plumbeo-vel argenteo-grisea vestitis, dein nudis, atris, intus fusco-rubiginosis

vel fusco-atris; peritheciis 10-50 aggregatis, ad tertium superum tantum prominulo-hemisphæricis, levissimis, ostiolo minutissimo, imperspicuo, non papillato donatis; ascis cylindræcis, modice stipitatis, 100-110 \approx 6-6,5, apice subtruncato-rotundatis, octosporis, paraphysibus densis, filiformibus obvallatis; sporidiis recte vel oblique monostichis, ellipticis vel elliptico-navicularibus, utrinque acutato-obtusatis, 10-12 \approx 5-6, 1-2-guttulatis, opace fuligineis.

Hab. ad ligna cariota putrescentia in nemerosis prope Guarapi Bras. — Species II. *subvinoso* affinis sed peritheciis majoribus distinctissima.

- *36. **Hypoxylon subnigricans** Speg. Fungi Guar. Pug. I, n. 201. — Stromate ligno denudato nigrificatoque late ambiente, 5-15 cent. d., appanato-pulvinate, 0,5-1 mm. crass., ambitu repando-subdeterminato, non effuso, non vel leniter undulato, dense regulariterque granulato-mammilloso, primo pulvere fusca vestito, dein nudo, atro-sæpeque subnitente; peritheciis e globoso-ellipsoideis, 300-350 μ . diam., densissime constipatis, parce prominulis, ostiolo minutissimo, umbonato-papillulato donatis, carbonaceis, atris; ascis et paraphysibus mox fluxilibus; sporidiis elliptico-navicularibus, utrinque acutato-rotundatis, 10-11 \approx 4-4,5, opace fuligineis.

Hab. ad ramos decorticatos putrescentes arborum in dumetis prope Guarapi Bras.

89. **Hypoxylon turbinatum** Berk. — Sacc. Syll. I, p. 372, *var. guaranicum* Speg. Fungi Guar. Pug. I, n. 206. — Stromatibus obconicis, solitariis v. dense gregariis, rarissime confluentibus, superne appanato-truncatis, 7-8 mm. alt. 9-16 mm. d. sup., margine recto, prominulo, obtuso, disco convexulo, centro plano v. depressulo, glabris, atris, opacis, levibus v. minutissime (vix sub lente valida) rugulosis v. sparse papillulosis; cortice crassiuscula, 0,2-0,4 mm. crass., dura, corneo-carbonacea, in fracturis resinose nitente, diu persistente, vix centro disci apicalis per ætatem oblitterata ac evanescente, a substantia interna stromatis distinctissima; substantia interna totum corticis stromatis cavum implectente, homogæna, fusco-atra v. coffeicolori, obsolete fibrosula, in fracturis sericeo-nitente; peritheciis sub disco supero in cavitate lenticulari dense aggregatis, verticalibus cylindræco-ellipticis, 1-2 mm. long., 0,3-0,4 mm. diam., membranaceo-coriacellis, per ætatem fragilibus ac friabilibus, ostiolo minuto (vix evoluto) disci stromatis superficiem vix attingente imperspicuoque donatis; ascis obovato-clavatis, p. sp. 32-40 \approx 12-15, longissime pedicellatis, sed facile deciduis, paraphysibus densissimis

guttulatis v. *septulatis*, granulosis, obscure chlorinis, 2-3,5 μ . crass., obvallatis, 8-sporis; sporidiis distichis v. polystichis, inordinatis, ellipticis, utrinque obtusissime rotundatis, 10-12 \approx 5-6, e latere non compressis rectis, intense ex olivaceo chlorinis.

Hab. ad truncos vetustos emortuos Citri aurantii in silvis prope Guarapí Bras. — Species pulcherrima a genere certe satis desciscens ac facile in novum genus erigenda inter *Hypocylum* et *Camilleam*.

- * 100. **Hypoxylon guarapiense** Speg. Fung. Guar. Pug. I, n. 199. — 6344
 Stromate majusculo 10-25 cent., primo epidermide tecto, dein ea secedente nudo, matrici arcte adnato, effuso, ambitu indeterminato, sterili, gradatim centrum versus subpulvino, 1-1.5 mm. crass., leniter undulato, non v. obsoletissime granuloso, primo furfureo-griseo, dein rufescente, postremo sordide fusco-rubiginoso; peritheciis monostichis, obovato-globosis, substantia atra stromatis immersis, coriaceis, 300-350 μ . diam., fuscis; ascis cylindraceutis, antice rotundato-truncatis, postice attenuato-pedicellatis, p. sp. 60-65 \approx 6,5-7, ped. 25-30, 8-sporis, paraphysibus filiformibus, densis, obvallatis; sporidiis oblique v. recte monostichis, elliptico-navicularibus, utrinque acutato-rotundatis, 10 \approx 5, e latere (præcipue ad medium) compressis, 3 μ . crass., primo crasse 2-guttulatis dein opace fuliginis.

Hab. ad ramos dejectos putrescentes Citri aurantii in nemorosis prope Guarapí Bras. — Species pulchella sed externa facie sæpe ludibunda, *H. atro-purpureo* ut videtur, satis affinis.

- * 101. **Hypoxylon albo-stigmatosum** Speg. Fungi Guar. Pug. I, n. 197. 6345
 — Stromate late effuso, 5-25 cm. longo, 0,5-1 mm. crasso, crustaceo, duro, superne applanato, plus minusve seruposo-undulato, margine non sterili, repando-sinuoso, sordide rubiginoso vel fusco-ferugineo, non v. obsoletissime granuloso, laxe papilloso-stigmatoso, stigmatibus (ostiolis peritheciolorum) griseis v. albis, furfurellis, intus atro; peritheciis non vel vix prominulis, densissime constipatis, monostichis, ellipticis, 300-350 μ . diam., coriaceis, atris, ostiolo minuto, vix perspicuo, stroma perforante ac vix exerto, apice umbilicato-perforato, albo notato donatis; ascis cito diffluentibus, paraphysibus filiformibus, mucosis, densis obvallatis; sporidiis ellipticis, sæpius inæquilateralibus, utrinque obtuse acutatis, 9-10 \approx 3,5-4, 1-guttulatis, opace fuliginis.

Hab. ad ligna cariosa putrescentia in umbrosis uliginosis prope Guarapí Bras.

- * 113. **Hypoxylon Caaguazu** Speg. Fungi Guar. Pug. I, n. 205. — Stromatibus matrice denudata ac nigrificata insidentibus, latiuscule effuso-pulvinatis, 5-10 cm. diam., 1-1,2 mm. crass., ambitu repandulis, quandoque rotundatis quandoque effusis, superficie scrupuloso-undulatis ac per ætatem sæpius dense minutissimeque diffracto-rimulosis, confertissime papilluloso-asperis, fusco-atris, opacis, glabris; peritheciis globulosis, minutis, 200-250 μ . diam., densissime stipatis, conoideo-prominulis ostioloque parvulo coronatis, atris, carbonaceis, strato stromatico tenui, fusco-fibrosulo insidentibus; ascis et paraphysibus mox fatiscentibus; sporidiis oblique monostichis, navicularibus, utrinque acutato-rotundatis, 9-11 \approx 4-5, opace fuligineis.

Hab. ad ligna putrida in umbrosis prope Paraguari Bras. — Species pulchella ac satis distincta, in iuventute plurimis characteribus *H. fusco-purpureo* ac *H. vinoso* ut videtur affinis.

- * 117. **Hypoxylon subeffusum** Speg. Fungi Guar. Pug. I, n. 204. — Stromate erumpente, matrice nigrificata insidente, late ambiente, 15-20 cm. long., 0,5-1 mm. crass., elongato-repandulo, modice pulvinato-undulato, margine acutato-diffuso, dense majusculeque granuloso, atro, glabro, opaco; peritheciis densissime confertis, globulosis vel obovatis, majusculis, 550-780 μ . diam., parce e stromate prominulis atque apice minute discoideo-depressis, disculo marginato, medio papillato-ostiolato; ascis cylindraceutis, antice rotundato-truncatis, postice longissime attenuato-pedicellatis, p. sp. 55-65 \approx 2,5, 8-sporis, paraphysibus paucis, exilissimis, subfluxilibus obvalatis; sporidiis recte laxèque monostichis, elliptico-elongatis, 6-7 \approx 2,5, utrinque late rotundatis, leniter inæquilateralibus, non vel 2-guttatis, opace fuligineis.

Hab. ad truncos emortuos non putrescentes *Eugenia* speciei cujusdam, in nemorosis prope S. Tomas Bras. — Species *H. effuso* peraffinis; an tantum ejusdem varietas?

- * 153. **Hypoxylon intermedium** Speg. Fungi Guar. Pug. I, n. 203. — Stromatibus primo epidermide tectis dein erumpentibus v. cortice secedente nudis, matrice nigrificata innato-effusis, 3-5 cm. diam., vix pulvinatis ac undulatis, laxè gregariis v. confluentibus, ambitu irregulariter repandis, intus extusque sordide fusco-atris, opacis, minutissime (vix oculo nudo) et laxè punctulatis, superficiem *Diatrypes Stigmatis* in mentem revocantibus; peritheciis elliptico-globosis, 350-400 μ . diam., monostichis, densissime constipatis, atris, carbonaceis, non prominulis, ostiolo papillulato, e stro-

mate breviter exerto donatis; ascis cylindræis, apice rotundatis, basi breviter pedicellatis, 65-75 \approx 7, paraphysibus paucissimis immixtis, 8-sporis; sporidiis ellipticis, utrinque late rotundatis, 9-10 \approx 6, rectis vel vix inæquilateralibus, oblique monostichis, opace olivaceo-fuliginæis.

Hab. ad ramos truncosque putrescentes in silvis vetustis prope Guarapi Bras. — Species primo visu *H. anthracoidi* (sec. Speg. Fung. Arg. p. IV, n. 131) simillima, sed mox dignoscenda ostioli prominulis sporidiisque utrinque rotundato-obtusis.

- * 154. **Hypoxylon mbaiense** Speg. Fungi Guar. Pug. I, n. 202. — 6340
 Stromatibus matrice squarrulosule nigrefacta insidentibus, sparsis vel paucis aggregatis, oligocarpis, rotundatis vel elongatis, parvulis, 1-3 mm. long., 0,5-1 mm. lat., pulvinatis, 0,5 mm. crass., margine obtusato-determinatis, ruguloso-scrupulosis, subpruinuloso-asperis, primo fuscescenti-atris, dein extus intusque atris; peritheciis 5-20-aggregatis, globulosis, 400-450, e mutua pressione angulosis, non v. vix prominulis, disco (si perspicuo) applanato v. subumbilicato, ostiolo minutissimo, non visibili nec papillato perforatis, subcarbonaceis, nigris; ascis cylindræis, apice rotundatis, p. sp. 70-75 \approx 8-9, ped. 25-30 \approx 2-3, 8-sporis, paraphysibus filiformibus, densissimis obvallatis; sporidiis recte monostichis, valide navicularibus v. rarius elliptico-rhomboides, 10-11 \approx 6-7,5, utrinque obtusis, primo olivaceis, pellucidis, crasse 1-2-guttulatis, dein opace fuliginæis.

Hab. ad truncos decorticatos putrescentes Quebrachie Lorentzii in silvis subvirgineis prope Mbay Bras. — Species externa facie formam depauperatam *H. fuscii* simulans, sed characteribus internis prædistincta.

KRETZSCHMARIA Fr. — Sacc. Syll. II, Add. XXIX.

- * 1. **Kretzschmaria guaranitica** Speg. Fungi Guar. Pug. I, n. 207. 6350
 — Stromate solitario, extus atro, intus albo-farcto, glabro; stipte deorsum insititio recto v. curvo, irregulariter incrassato-scrupuloso, glabro v. vix pruinuloso, sursum recto, erecto gracili, 20-30 mm. long., 0,5-1 mm. crass., terete, apicem versus gradatim leniterque attenuato, fusco-atro, longitudinaliter minute denseque granuloso, glabro, vertice abrupte in clavulam expanso; clavula plus minusve regulariter hemisphærico-lenticulari. 5-8 mm. diam., 1 mm. crass., margine acute rotundata, inferne sterili, levi, superne convexula, fertili, densiuscule mammoso-papillata, atra; pe-

peritheciis monostichis, globoso-subdepressis, 400-450 μ . diam., extus atris, crassiusculis, coriaccellis, e stromate parum prominulis, ostiolo umbonato-papillato, apice sæpius minute umbilicato ac zona fulvella, vix perspicua, cincto donatis; ascis cylindræcis, sursum obtusissime rotundatis, crassissime tunicatis, obturaculo majusculo, medio perforato, jodii ope intense cœrulescente ornatis, p. sp. 130-150 \approx 10-13, deorsum attenuato-stipitatis, 8-sporis, paraphysibus densis obvallatis; sporidiis elliptico-v. ovoideo-navicularibus, primo crasse 1-guttulatis, guttula sæpe ocellulata, dein opace fuligineis, utrinque rotundatis, 20-22 \approx 9-10, extremitate infera cristula hyalina, decidua, hemisphærica, stricta ornatis.

Hab. ad ramos dejectos putrescentes in silvis subvirginis prope Guarapí Bras. — Species pulchra distinctissima, generibus *Kretzschmaria* et *Poronia* intermedia.

- *2. **Kretzschmaria Berkeleyana** (Cooke) Berl. et Vogl. *Hypoxylon cœnopus* var. Berk. in Herb. *Rhopalopsis Berkeleyanum* Cooke in Grevillea XII, p. 2. — Cæspitibus suborbicularibus, 2,5-5 cm. latis; stromatibus clavatis, stipitatis, superne applanatis, dense congestis, atris, opacis, simplicibus, rarissime confluentibus, in stipitem brevem, rugulosum, infra attenuatis; peritheciis minutis, numerosissimis, compressis, prominulis; ascis cylindræcis; sporidiis ellipticis, inæquilateralibus, continuis, fuscis, 8-10 \approx 4.

Hab. in corticibus in Brasilia et in insula Ceylon. — Habitu *K. cœnopodi* sed peritheciis minoribus, sporidiis diversis.

- *3. **Kretzschmaria confusa** (Berk. et Cooke) Sacc. Syll. II, add. c. XXIX, *Rhopalopsis confusum* Berk. et Cooke in Grevillea XII, p. 2. — Gregaria, stipitata, simplex; capitulis globoso-depressis, glaucis, demum nigris, in stipitem flexuosum attenuatis; peritheciis innatis, globosis, ostiolis punctiformibus; ascis sporidiisque non visis.

Hab. in ligno in Brasilia.

NUMMULARIA Tul. — Sacc. Syll. I, p. 395.

- *1. **Nummularia Clypeus** (Schw.) Cooke in Grevillea XII, p. 6, *Sphæria Clypeus* Schw. Syn. Car. n. 42, *N. Bulliardii* Sacc. Syll. I, p. 396 p. p. — Explanata, ambitu elliptico, immersa, atro-nitens, ostiolis conicis, prominulis exasperata, 25-75 mm. diam., margine ligneo undulato cincta; ascis cylindræcis; sporidiis ellipticis, utrinque attenuatis, amygdalæformibus, continuis, fuscis, 20 \approx 8.

Hab. in ramis Catalpæ etc. in Amer. bor. (Doct. CURTIS).

- *2. **Nummularia Macula** (Schw.) Cooke in Grevillea XII, pag. 6, c.

Sphæria macula Schw. Syn. Car. n. 38. — Suborbicularis, erumpens, convexo-applanata, atra, ostiolis minutis punctiformibus notata; ascis cylindraceis; sporidiis late ovalibus, atro-fuscis, 11 \approx 9.

Hab. in cortice Platani in Amer. bor.

- * 3. **Nummularia scutata** Berk. et Cooke in Grevillea XII, p. 6. — 6355
Tenuis, orbicularis, applanata, atra, erumpens; ostiolis minutis punctiformibus, vix perspicuis; ascis cylindraceis; sporidiis ellipticis, minutissimis, fuscis 4-5 \approx 2,5.

Hab. in ramis in insula Mauritio.

- * 4. **Nummularia pezoides** Ell. et Ev. in Torr. bot. Club. 1884, p. 74. 6356
— Stromate carbonaceo, erumpenti-superficiali, depresso obconico, externe nigro, intus rufo-brunneo, circiter 1 cm. lato, 0,5 cm. alto, margine sublobato, attenuato; disco ostiolis prominentibus punctato; peritheciis piriformibus vel mutua pressione angulosis, circiter 1 mm. altis; sporidiis anguste ellipsoideis, uno latere inflatulis, brunneis, 1-2-nucleatis, 11-13 \approx 4-5.

Hab. in corticibus, Ottawa Canada Amer. bor.

- * 6. **Nummularia testudinea** Cooke in Grevillea XII, p. 7. — Subor- 6357
bicularis, convexa, fusca; margine tenui sterili; superficie demum in plagas minutas, hexagonas fissurato-diffracta, plagis cum peritheciis innatis convenientibus; peritheciis centralibus, congestis, globosis; ascis cylindricis; sporidiis ellipticis, fuscis, 5 \approx 3.

Hab. in corticibus in Africa occid.

- * 8. **Nummularia mauritanica** Berk. et Cooke in Grevillea XII, p. 6. 6358
— Discoidea, demum confluens irregularisque, erumpens, convexo-applanata, levis, atra; ostiolis obsolete; peritheciis elongato-compressis; ascis cylindraceis; sporidiis ellipticis, utrinque rotundatis, fuscis, 8 \approx 4.

Hab. in corticibus in insula Mauritio.

- * 10. **Nummularia Baileyi** (B. et Br.) Cooke in Grevillea XII, p. 6, 6359
Hypoxyton Baileyi B. et Br. — Erumpens, orbicularis, cupulata margine incrassato, 4-7 mm. diam., elevato, disco ostiolis prominulis asperato; peritheciis elliptico-ovatis, centro immersis; ascis cylindricis; sporidiis ellipticis, fuscis, variabilibus, 13-20 μ . longis.

Hab. in ligno, Brisbane Australiae (BAILEY).

- * 13. **Nummularia australis** Cooke in Grevillea XII, p. 6. — Stromate 6360
cortice innascente, erumpente, effuso, determinato, sæpe disciformi, convexo, impolito, atro; peritheciis subglobosis, parvulis, 1-2 serialibus; ostiolis externis, vix visibilibus; ascis cylindraceis; spori-

diis vere polymorphis, aliis fusiformibus, $21 \approx 9$, aliis ovatis, $12 \approx 8$, aliis intermediis, plerumque magnis, fuscis.

Hab. in corticibus, Clarence River Australiæ (Miss THORNETON).

18. **Nummularia glycyrrhiza** Schw. — Sacc. Syll. I, pag. 401, Cooke in Grevillea XII, p. 6. — Sporidia $11-13 \approx 4,5-5$.

*21. **Nummularia hypophlæa** (B. et Rav.) Cooke in Grevillea, pag. 51. — *Huc* ducendum, teste Cooke, *Anthostoma hypophleum* Sacc. Syll. I, pag. 306.

*22. **Nummularia guaranítica** Speg. Fung. Guar. Pug. I, n. 190. — Stromatibus erumpentibus, orbicularibus, 5-10 mm. diam., pulvinatulis, 1-1,5 mm. crassis, laxe gregariis, rarius confluentibus, applanatis vel vix medio depressulis, margine acute rotundatis, disco primo pruinula sæpe subcrustacea, cœrulescenti, alba vestito, dein nudo, glabro, fusco-atro, levi, vel vix sub lente valida minutissime punctulato; peritheciis elliptico-cylindræcis, erectis, densissime constipatis, 1 mm. altis, 250-300 μ . diam., atris, coriaceis, ostiolo minutissimo, non vel vix stromatis superficiem attingente donatis; ascis cylindræcis, sursum rotundato-truncatis, crassiusculeque tunicatis, deorsum modice attenuato-stipitatis, p. sp. 75 \approx 6, ped. 12-15 \approx 2, octosporis, pseudoparaphysisibus fluxilibus, crassissimis, prælongis obvallatis; sporidiis ellipticis, 10 \approx 5, recte monostichis, minutissime granuloso-papillulosis, non vel vix granuloso-farctis, chlorino-carneis.

Hab. ad ramos ac truncos dejectos putrescentes in silvis subvirgineis prope Guarapi Bras. — Species pulchella distinctissima sporidiis vix coloratis, a genere nonnihil recedens.

*24. **Nummularia rumpens** Cooke in Grevillea XII, pag. 51, *Anthostoma rumpens* Sacc. Syll. I, p. 306.

Sect. 3. Hyalosporæ Sacc.

CERATOSTOMELLA Sacc. Syll. I, p. 408.

*2. **Ceratostomella microcarpa** Karst. in Hedw. 1884, p. 86. — Rev. atque Synop. Ascom. Fenn. p. 73. — Peritheciis gregariis, erumpentibus, denique liberis, vulgo sphæroideis, atris, circ. 0,3 mm. lat., rostro cylindræceo, æquali, levi, perithecium æquante vel eo duplo longiore; ascis crasse clavatis, 18-25 \approx 4; sporidiis conglobatis vel tristichis, elongatis vel cylindræcis, curvulis, simplicibus, hyalinis, 4 \approx 0,5-1.

Hab. in ligno vetusto Populi tremulæ prope Mustiala Fennicæ. — A cæteris speciebus minutie partium omnium statim tutaque dignoscitur.

10. **Ceratostomella stricta** (Pers.) Sacc. Syll. I, p. 410, var. **majuscula** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. III. Fung. Slav. n. 845. — A typo recedit sporidiis paullo majoribus, nempe 12-14 \approx 3, pariter 2-3-guttatis, hyalinis.

Hab. in ligno putri populino prope Vinkovce Slavonicæ.

GNOMONIELLA Sacc. Syll. I, p. 413.

- * 13. **Gnomoniella vagans** Johans. Svamp. fran. Island. p. 163, t. XXIX, fig. 6. — Peritheciis sparsis vel gregariis, parenchymate innatis, sphaeroideis, siccis depressis basi que collapsis, atris, 270-330 μ . d., rostro cylindræo, rigido, circ. 200 μ . longo, epidermidem perforante; ascis cylindræis seu subcylindræis, aparaphysatis, in pedicellum brevissimum acute attenuatis, 35-57 \approx 8-11, octosporis: sporidiis distichis, ovoideo-elongatis, sæpe inæquilateralibus, simplicibus, hyalinis, eguttulatis, membrana tenui, apice incrassata, 9-13 \approx 4-5. 6363

Hab. in petiolis et pedunculis emortuis Dryadis octopetalæ Eskifjördur Islandicæ orientalis.

LÆSTADIA Auersw. — Sacc. Syll. I, p. 421.

- * 3. **Læstadiæ Malbrancheana** Sacc. Fung. Gall. ser. V. n. 2158. — Peritheciis minutis, globoso-depressis, epidermide velatis, in maculis arescendo cinerascentibus, vagis, sparsis, amphigenis; ascis clavato-teretibus, subsessilibus, aparaphysatis, octosporis, 48 \approx 7; sporidiis distichis, ellipsoideis, continuis, granulato-guttulatis, 13-14 \approx 4, hyalinis. 6364

Hab. in foliis Pyrolæ secundæ, Montauvert Gallicæ. — Socia adest *Septoria Pyrolæ* Sacc.: peritheciis epidermide velatis, punctiformibus, macula nulla v. obsoleta insidentibus; spermatiis fusoidæo-bacillaribus, 20-23 \approx 3-4, curvulis, hyalinis.

- * 6. **Læstadiæ Potentillæ** Rostrup Islands Svampe p. 11. — Peritheciis lenticularibus, umbilicatis, nitidis; ascis cylindræo-clavatis, curvulis, 30-35 \approx 8-12; sporidiis distichis, fusoidæo-oblongatis, hyalinis, 9-12 \approx 3-4. 6365

- * 7. **Læstadiæ guarapiensis** Speg. Fung. Guar. Pug. I, n. 181. — Peritheciis laxè gregariis, epidermide tenui, albescente tectis eaque 6366

sæpe adnatis, lenticulari-globosis, 150-200 μ . d., atris, glabris, membranaceis, coriacellis contextu subindistincto; ascis clavatis sursum obtusissime rotundatis crasseque tunicatis, deorsum breviter attenuato-stipitatis, 75-85 \approx 15-18, octosporis aparaphysatis; sporidiis distichis, ellipticis, medio tumidulis, utrinque subtruncato-rotundatis, rarius acutatis, 18-20 \approx 8, non v. vix inæquilateralibus, granuloso-faretis, hyalinis.

Hab. ad ramulos dejectos putrescentes Ricini communis prope Guarapí Bras. — Species eximia, distinctissima; an huc *Botryosphaeria Delilei*?

- * 10. *Læstadia celata* Harkn. New Calif. Fungi p. 23. — Peritheciis hypophyllis, omnino immersis, sparsis; ascis clavatis, longe stipitatis, 45 \approx 15; paraphysibus nullis; sporidiis hyalinis, turbinatis, nitentibus; endochromate in parte acutiori sporidii diviso, 12 \approx 6.

Hab. in foliis emortuis *Quercus densifloræ*, Tamalpais in California.

- * 11. *Læstadia Orontii* (Ellis et Ev.) Berl. et Vogl. *Physalospora Orontii* Ell. et Ev. in Journ. of Myc. 1885, p. 150. — Maculis elongatis, siccis, 3-4 \approx 1 cm.; peritheciis erumpentibus, orbicularibus, depressis, 150-180 μ . diam., centrum macularum occupantibus, poro minute pertusis, membranaceis; ascis oblongo-cylindraceis, basi abrupte attenuatis, sessilibus, apice truncatis; sporidiis distichis, granulosis, 14-16 \approx 6,7 subhyalinis.

Hab. in foliis vivis *Orontii* aquatici, Newfield Amer. bor.

- * 12. *Læstadia fusispora* Sacc. et Berl. Miscell. Myc. p. 26, n. 115, tab. VIII, f. 3. — Maculis epiphyllis vagis, subochraceis; peritheciis subsparsis, globoso-lenticularibus, breve papillatis, tectis dein erumpentibus, 100-110 μ . diam., membranaceis; ascis cylindraceis, aparaphysatis, breviter stipitatis, 80-90 \approx 8, octosporis; sporidiis 1-stichis, fusoides, 20-22 \approx 4-5, subinde inæquilateralibus, hyalinis, eguttatis.

Hab. in foliis putrescentibus *Quercus pedunculatæ*, Cervarese prope Padova Ital. bor. — Ab affini *Physalospora fusispora* differt peritheciis minoribus, ascis aparaphysatis et dimidio angustioribus.

- * 14. *Læstadia auripunctum* Harkn. New Calif. Fungi p. 23. — Hypophylla; peritheciis sparsis, 5-20 in maculis flaveolis, orbicularibus, 2-5 mm. diam., linea obscure brunnea marginatis; nucleo aurantiaco; ascis 8-sporis, fusiformibus, 54-10, longe stipitatis; sporidiis hyalinis, ovatis vel clavatis, 10 \approx 6.

Hab. in foliis vivis *Quercus Wislizeni*, Folsom in California.

- * 15. **Læstadia polystigma** (Ell. et Ev.) Berl. et Vogl. *Sphaerella polystigma* Ell. et Ev. in Bull. Torr. bot. Club. 1883, pag. 117. — Peritheciis latis, in pagina inferiore foliorum sparsis, epidermide nigrificata tectis, subhæmiphæricis, collapsis; ostiolo papilliformi, perforato; ascis 35-40 \approx 8, oblongis, sessilibus; sporidiis distichis, ovato-ellipsoideis, continuis, subhyalinis, 10-12 \approx 3-4.

Hab. in foliis delapsis, Ohio Amer. bor. (KELLERMANN).

- * 16. **Læstadia Buxi** (Fuck.) Sacc. Syll. II, Add. XXXI, Winter in Hedwigia 1886, p. 22. — Asci breviter pedicellati, 50-60 \approx 10, sporidia 14-17 \approx 4,5-5.

- * 19. **Læstadia Iridis** (Cooke) Berl. et Vogl. *Sphaerella Iridis* Cooke in Grevillea XIII, p. 33. — Caulicola; peritheciis laxè gregariis punctiformibus, epidermide ostiolo minuto perforata tectis; ascis clavatis, sessilibus, octosporis; sporidiis ellipticis, utrinque leniter attenuatis, 12-14 \approx 4-5, hyalinis.

Hab. in pedunculis florum *Iridis Germanicæ*, Kew Britannicæ.

- * 20. **Læstadia microscopica** (Niessl) Berl. et Vogl. *Ascospora microscopica* Niessl in Rabenh. Fungi europ. 1939 et Winter Hedw. 1886, p. 11. — Peritheciis epiphyllis, dense sparsis vel hinc inde gregariis, minutissimis, fere globosis, atris nitidis, vertice poro per-tusis; ascis oblique ovatis vel oblongis, breviter stipitatis, 20 \approx 8-10; sporidiis subcylindricis, rectis, utrinque obtasis, guttulis 4 præditiis, hyalinis, 12-14 \approx 2-3.

Hab. in foliis emortuis *Rubi fruticosi* in Styria Germanicæ.

- * 21. **Læstadia Zaviana** Sacc. et Berl. Misc. Myc. II, p. 27, n. 117, tab. VIII, fig. 2, *Diaporthe Zaviana* Sacc. Spec. Myc. Ven. p. 139, t. XIV, f. 5-7 et Syll. I, p. 668. — Stroma absolute nullum ostiolumque brevissimum, nec non defectus foveolarum in apice asci suadent hanc speciem in genus *Læstadium* potius ducere; asci 27-30 \approx 6-8; sporidia disticha, 6-7 \approx 3-4, 3-guttata, hyalina, initio utrinque apiculo 1-2 μ . longo aucta.

Hab. in sarmentis corticatis *Rubi fruticosi*, Fiumicello Ital. bor. — Iterum reperta et e genere novo studio remota.

- * 24. **Læstadia depressa** (Peck) Berl. et Vogl. *Sphaerella depressa* Peck in 33 Rep. Stat. Mus. p. 34. — Peritheciis numerosis, minutis, depressis vel subinde siccitate concavis, atris; ascis oblon-

go-clavatis; sporidiis simplicibus, oblongo ellipsoideis vel subfusiformibus, 12-15 μ . longis.

Hab. in caulibus emortuis Mulgedii, Center Amer. bor.

- *25. **Læstadia caryophyllea** (Cooke et Harkn.) Berl. et Vogl. *Sphaerella caryophyllea* Cooke et Harkn. in Grevillea XIV, p. 9. — Peritheciis minutis, punctiformibus, densissime gregariis, aterrimis, convexis, emergentibus; ascis obclavatis, octosporis; sporidiis obtuse lanceolatis, biserialibus, continuis, hyalinis, 20 \approx 7,5.

Hab. in caulibus Dianthi in California (HARKNESS).

- *28. **Læstadia Camilleæ** (Cooke) Berl. et Vogl. *Sphaerella Camilleæ* Cooke in Grevillea XIII, pag. 4. — Epiphylla, sparsa; peritheciis semiimmersis, membranaceis, 250 μ . diam., atro-fuscis; ascis clavatis, octosporis; sporidiis biserialibus ellipticis, continuis, 12 \approx 5, pallidis, hyalinis.

Hab. in foliis Camilleæ theæ, Johore pr. Perak Malesiæ.

- *35. **Læstadia guaranitica** Speg. Fung. Guar. Pag. I, n. 183. — Maculis amphigenis, suborbicularibus, 2-8 mm. diam., determinatis, tenui griseo-arescentibus, subpellucidis; peritheciis epiphyllis in maculis laxe gregariis, tectis, globulosis, minutis, 80-90 μ . d., glabris, levibus, atris, membranaceis, ostiolo minuto, rotundo, contextu crasse celluloso-parenchymatico, fuligineo-olivaceo; ascis clavatis, antice obtuse rotundatis et suberassiuscule tunicatis, postice breviuscule attenuato-stipitatis, 50-55 \approx 10, octosporis, aparaphysatis; sporidiis distichis v. monostichis, ellipticis, medio tumidulis, utrinque subtruncato-rotundatis, 10-11 \approx 5, non v. vix inaequalateralibus, nubiloso faretis, hyalinis.

Hab. ad folia viva Monesiæ speciei cujusdam in dumetis colinis, Cerro Hu prope Paraguari Bras.

- *10. **Læstadia Rhodoræ** (Cooke) Berl. et Vogl. *Sphaeria Rhodoræ* Cooke in Grev. XIII, p. 99. — Epiphylla; peritheciis gregariis, in maculis latis, irregularibus, ferrugineis insidentibus, parenchymate immersis, subglobosis, atris, ostiolis punctiformibus epidermidem perforantibus; ascis clavatis, aparaphysatis, 80-120 \approx 16; sporidiis ellipticis, hyalinis, continuis, 15 \approx 7.

Hab. in foliis vivis Rhododendri, Kew Britanniae. — A *L. Rhododendri* distincta.

- *12. **Læstadia destructiva** (Berk. et Br.) Berl. et Vogl. *Sphaerella destructiva* Berk. et Broom. IV List. Fung. Brisb., Queesl. n. 268, tab. XV, fig. 22-21. — Peritheciis minutis, in maculis brunneis sitis; ascis brevibus, 75 μ . longis; sporidiis monostichis vel inor-

dinate distichis, subellipticis, basi subattenuatis 12 μ . longis hyalinis.

Hab. in foliis.... Brisbane.

- *43. **Læstadia Polypodii** Sacc. et Magn. *Miscell. Myc.* II, pag. 27, 6380
n. 116, tab. VIII, fig. 6. — Maculis vagis, ferruginosis, amphigenis; peritheciis hinc inde densissime gregariis, amphigenis, innato-prominulis, globulosis, vix pertusis, 90-100 μ . diam. atris; ascis tereti-clavatis, aparaphysatis, 60 \approx 15, breve stipitatis, octosporis; sporidiis distichis, ovato-oblongis, continuis, 11-12 \approx 5-6, granulosis, hyalinis.

Hab. in foliis *Polypodii vulgaris*, Sassari Sardinia et Albano Latii (MAGNUS).

PHOMATOSPORA Sacc. *Syll.* I, p. 432.

- *1. **Phomatospora Luzulae** Cocc. et Mor. *Enum. Fungii della Provincia di Bologna*, Cent. III, pag. 15, t. I, f. 3-7. — Peritheciis membranaceis, in foliis siccis insidentibus, globoso-depressis, epidermide tectis, dein erumpentibus, ostiolo prominulo præditis, 280-340 μ . diam.; ascis cylindræis, interdum aliquantum clavatis, 42-46 \approx 5-6; sporidiis hyalinis, fusiformi-oblongatis, rectis vel levissime flexuosis, denique biguttulatis, 12-14 \approx 2-3. 6381

Hab. in foliis *Luzulae spadicæ* prope Corno alle Scale, Bologna Italiae med.

- *4. **Phomatospora Datiscaæ** Harkn. *New Calif. Fungi* p. 23. — Peritheciis sparsis, epidermide tectis; ostiolo conico; ascis 8-sporis, oblongis vel obclavatis, 50-60 \approx 12-20, aparaphysatis; sporidiis oblongo-ovoideis, hyalinis vel minute granulosis, utrinque guttulis, 20-30 \approx 8-10. 6382

Hab. in caulibus emortuis *Datiscaæ* glomeratæ, Folsom Californiae.

- *5. **Phomatospora endopteris** Phill. et Plowr. in *Grevillea* XIII, 6383
pag. 76. — Peritheciis globosis, profunde pedunculo frondium immersis; ostiolis minutis, collo longo, cylindrico, superficiem perforante præditis; ascis cylindræis, 30 \approx 5; sporidiis oblongis, ovoideis, hyalinis, simplicibus, uniseriatis, 10-11 \approx 3.

Hab. in frondibus *Pteridis aquilinæ* prope Leigh Wood Britannia (BUCKNALL).

PHYSALOSPORA Niessl. — Sacc. *Syll.* I, p. 433.

5. **Physalospora gregaria** Sacc. *Syll.* I, p. 435, ***Ph. platanicola**: Sacc. 1660

et Berl. Misc. Myc. II, n. 82. — Sporidiis quam in typo paullo brevioribus, nempe 20-22 \approx 9; ascis 60-70 \approx 12-14.

Hab. ad ramulos Platani, Genève (I. Romè).

- *5. **Physalospora Geranii** Cooke et Hark. in Grevillea XIII, p. 9. — Peritheciis densissime gregariis, convexis, atris, epidermide velatis, demum erumpentibus; ascis clavatis, amplis, octosporis; sporidiis ellipticis, biserialibus, continuis, intus granulosis, hyalinis, 25-28 \approx 10.

Hab. in caulibus Geranii in California (HARKNESS).

9. **Physalospora alpina** Speg. — Sacc. Syll. I, pag. 436 ***Ph. Crepiana** Sacc. et March. in Revue Myc. 1885, p. 145. — Peritheciis tectis dein prominulis, globosis, obtuse papillatis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., atris, amphigenis, gregariis v. sparsis; ascis oblongis crassis, 100-110 \approx 10-25, paraphysatis, octosporis, brevissime stipitatis; sporidiis distichis, oblongo-ellipsoideis, utrinque rotundatis, 20-26 \approx 10-11, e hyalino dilute flavidis, granulosis.

Hab. in foliis languidis Empetri nigri, Samrée, prov. Luxembourg in Belgio (CRÉPIN). — A *Ph. alpina* typica differt sporidiis brevioribus crassioribusque et peritheciis minoribus.

- *30. **Physalospora fusispora** Sacc. et Roum. in Rev. Myc. 1883, p. 233, tab. 39, fig. 2. — Peritheciis epiphyllis, hinc inde gregariis, epidermide velatis, globoso-depressis, breve papillatis, 120-130 μ diam., contextu parenchymatico, duriusculo, fuligineo; ascis tecti-clavatis, obsolete paraphysatis, 80-90 \approx 12-16, subsessilibus, octosporis; sporidiis distichis, fusoides, rectiusculis, utrinque acutatis, 23-26 \approx 5-6, hyalinis.

Hab. in foliis dejectis Ilicis Aquifolii in Gallia. — A *Ph. philoprina* ascis cylindræis, longioribus, sporidiis fusiformibus etc. recedit.

- *35. **Physalospora Uvæ-sarmenti** (Cooke) Berl. et Vogl. *Sphæria uvæ-sarmenti* Cooke in Grevillea XIII, p. 109. — Tecta, sparsa vel subgregaria; peritheciis globosis, atris, subprominulis; ascis clavatis; sporidiis lanceolatis, continuis, hyalinis, 40 \approx 8.

Hab. in sarmentis Vitis, Aiken Carol. austr.

- *59. **Physalospora bina** Harkn. New Calif. Fungi pag. 23. — Epiphylla; peritheciis lucidis, nigris, hemisphæricis, subliberis, numerosis, in maculis albescentibus, irregularibus, folii tertium vel amplius occupantibus, linea atra circumscriptis; paraphysibus vacuolatis; ascis bisporis, delicatis, fusiformibus, in pedicellum graci-

lem attenuatis, $45 \approx 9$; sporidiis oblongo-ellipsoideis vel naviculæformibus, apice acutis, basi rotundatis, multi-nucleatis, $15 \approx 6$.

Hab. in foliis vivis *Quercus agrifoliæ*, Tamalpais in California.

* 60. **Physalospora quercifolia** Ell. et Ev. in Journ. of Myc. 1885. — 6389

Peritheciis $\frac{1}{4}$ – $\frac{1}{3}$ mm. diam., globosis, nucleo vix colorato faretis, substantia foliorum immersis, in utraque foliorum pagina distincte prominulis, epidermide vix nigrefacta, iis adhærente tectis, demum quandoque collapsis, ostiolis papillæformibus, per epidermidis ruptionem vix visibilibus præditis; ascis oblongis, 75 – $80 \approx 12$, basi in pedicellum brevem, abrupte truncatum desinentibus; sporidiis distichis, acute ellipticis vel late fusiformibus, granulosis, hyalinis, 15 – $25 \approx 6$ – 8 .

Hab. in foliis emortuis *Quercus coccineæ*, sociâ *Harknessiâ hyalinâ*, cujus verisimiliter est status stylosporus, Newfield Amer. bor.

* 61. **Physalospora Ilicis** (Schl.) Sacc. *Sphæria Ilicis* Schleich in Ellis North Americam Fungi n. 196. — 6390

Peritheciis sparsis, epidermide demum rimose rupta, centro albida tectis, prominulis, epiphyllis, globosis, globosove-conoideis $\frac{1}{3}$ mm. diam.; ascis cylindræis, sursum rotundatis, basi attenuatis, sensim breviterque stipitatis, $80 \approx 12$ octosporis; sporidiis distichis, cymbiformibus, utrinque rotundatis, $15 \approx 5$, hyalinis.

Hab. in pagina superiore foliorum *Ilicis opacæ* in America boreali. — «Huc verisimiliter spectat *Ph. philoprina*».

62. **Physalospora coccodes** (Lév.) Sacc. Syll. I, p. 446 et in Rev. Myc. 1717

1885, p. 156. — Perithecia epidermide nigra, nitida tecta; ascis 90 – $100 \approx 10$ – 14 ; sporidia 10 – $12 \approx 8$.

* 65. **Physalospora paraguaxa** Speg. Fung. Guar. Pug. I, n. 185. — 6391

Peritheciis primo tectis, dein erumpenti-semiimmersis, laxe gregariis ac irregulariter hinc inde subseriatis, e globoso-conoideis, 150 – 180μ . diam., atris, levibus, glabris, ostiolo impresso, pertuso donatis, membranaceo-coriacellis, contextu minutissime ac subindistincte parenchymatico, atro-olivaceo; ascis cylindræis, 65 – $70 \approx 3$ – 4 , apice truncato-rotundatis crassiusculeque tunicatis, postice breviuscule attenuato-pedicellatis, octosporis, paraphysibus mucoso-evanescentibus, densis obvallatis; sporidiis monostichis, ellipticis, utrinque plus minusve, rotundatis, 5 – $8 \approx 2,5$, non vel crasse 1 – 2 -guttulatis, hyalinis.

Hab. ad culmos dejectos putrescentes *Sacchari officinarum* in cultis prope Guarapi Bras.

- *70. **Physalospora tecta** Wint. in Hedw. 1885. — Peritheciis sparsis vel gregariis, immersis, depresso globosis, membranaceis, fuscis, ostiolo papillæformi, prominulo instructis, circ. 240-270 μ . d.; ascis oblongis vel oblongo-obclavatis, e basi latiori sursum parum attenuatis, sessilibus, apice non incrassatis, rotundatis, 8-sporis, 52-62 \approx 14-18; sporidiis inordinatis, ellipsoideis vel oblongo-subclavatis, unicellularibus, guttula magna præditis, hyalinis, demum dilutissime fuscidulis, 16-21 \approx 8-9; paraphysisibus filiformibus, indistinctis.

Hab. in foliorum Palmarum partibus exsiccatis in Brasilia prope S. Francisco Amer. bor.

- *71. **Physalospora Lecanoræ** (Stein) Winter in Hedw. 1886, p. 22, *Thrombium Lecanoræ* Stein. l. c. pag. 329. — Peritheciis superficialibus, sessilibus, minutissimis, hemisphæricis vel late conoideis, vertice truncato impressoque, late pertuso, 0,05 mm. diam.; ascis cylindraceo-clavatis, plerumque, 8- rarius 4-sporis; sporidiis oblongo-ovoides vel dacryoideis, guttulis 2-4, magnis præditis, 16-20 \approx 6-8.

Hab. in thallo ascomatibusque Lecanoræ subfuscae var. saxicolæ in Germania.

- *72. **Physalospora Collemæ** (Stein) Winter in Hedw. 1886, pag. 22, *Thrombium Collemæ* Stein. Flechten Schlesiens p. 330. — Peritheciis globosis, omnino immersis, minutissimis, atris nitidis, vertice, vix prominulis, convexis, poro minutissimo pertusis, 0,05 mm. diam.; ascis cylindricis, 8-sporis; sporidiis monostichis, ovoides vel ellipsoideis, guttulis oleosis, magnis præditis, 12-16 \approx 8-10 hyalinis; paraphysisibus distinctis.

Hab. in fructibus Collematis fulvi in Germania.

- *73. **Physalospora? microthelia** (Wallr.) Winter in Hedwigia 1886, p. 23, *Verrucaria microthelia* Wallr. Flora I, pag. 209. — Peritheciis fere verrucarioideis, thalli areolis immersis, fuscis; paraphysisibus indistinctis; sporidiis oblongis vel ovalibus simplicibus, hyalinis, 12-15 \approx 6-7,8 in ascis subcylindricis non raro uniseriatis.

Hab. in thallo sterili Biatoræ coarctatæ parasitans in Germania.

- *74. **Physalospora? psoromoides** (Borr.) Winter in Hedw. 1886, pag. 23, *Verrucaria psoromoides* Borr. in Engl. Botan. Suppl. 2612, fig. 1. *Endocarpon psoromoides* Hook., Brit. Flora II, pag. 157, *Phacopsis psoromoides* Hepp. Europ. Flecht. n. 475. — Peritheciis gregariis, thallo immersis, fere globosis, ostiolo fusco-atro, late pertuso, subhemisphærico prominulis, tenui-membranaceis; ascis

oblongis, utrinque attenuatis, 8-sporis; sporidiis elliptico-oblongis v. ovoideis, continuis, 12-14 \approx 5; paraphysibus indistinctis, mucosis.

Hab. in thallo *Parmeliæ pulverulentæ* et *Aspiciliæ*, mucosæ in Germania.

TRABUTIA Sacc. et Roum. — Sacc. Syll. I, p. 449.

- * 1. **Trabutia Bauhiniae** Wint. in Hedw. 1885, I. — Stromate tenui, sæpe obsoleto, atro, crustaceo; peritheciis gregariis, sæpe stellatim vel radiatim dispositis, non raro concretescentibus, semiimmersis, globosis, vertice subconico protuberantibus, atris, nitidiusculis, parte superiori carbonaceis, atris, parte inferiori (immersis) membranaceis, pallidis, 210-240 μ . diam.; ascis inflato-oblongis, sessilibus, utrinque attenuatis, membrana tenuissima, apice parum incrassata præditis, 8-sporis, 60-70 \approx 17-22; sporidiis inordinatis, oblongis, utrinque parum attenuatis, sed rotundatis, inæquilateralibus, unicellularibus, hyalinis, 16-17,5 \approx 5.

Hab. ad folia viva *Bauhiniae* Vahlîi in horto botanico Calcuttæ Indiæ (S. Kurz).

DITOPELLA De Not. — Sacc. Syll. I, p. 450.

- * 1. **Ditopella microscopica** Karst. in Rev. Mon. p. 71, *Apiosporium microscopicum* Karst. Symb. ad Myc. Fenn. VI, pag. 42, Sacc. Syll. I, p. 132. — Perithecia sparsa, epidermide innata, sphæroidæa, subastoma, levia, atra, 30-40 μ . diam.

TRICHOSPHERIA Fuck. — Sacc. Syll. I, pag. 453.

3. **Trichosphæria Punctillum** Rehm — Sacc. Syll. I, p. 452, * **T. pachyspora** Sacc. Rouss. et Bomm. in Misc. Myc. I, p. 17. — Peritheciis $\frac{1}{4}$ mm. diam.; setulis septatis atro-fuscis 150-200 \approx 8; ascis tereti-fusoideis, 30-80 \approx 10; sporidiis ellipsoideis, utrinque acutiusculis 10-12 \approx 7, granulosis, hyalinis vel dilutissime flavidis.

Hab. in lignis putridis prope Bruxelles in Belgio. — A typo recedit sporidiis paulo brevioribus et crassioribus.

SCORTECHINIA Sacc. (Ety. a sollertiss. botanico italo Rev. BENEDE. SCORTECHINI, Australiæ et Malesiæ exploratore) *Trichosphæria* Sacc. ex p., Syll. I, p. 454, *Sphæria* Mont. — Perithecia in subiculo late effuso, compacto, pannoso, fusco, fere penitus immersa, minutissima, levia, epapillata, tandem pertusa, vix carbonacea. Subiculi hyphæ subdichotome ramosæ, filiformes, fuliginæ, continuæ, ubique spinulis, apice acute 2-3-dentatis exasperatæ. Asci clavati, te-

nerrimi, longe stipitati, apice obtusi, octospori, aparaphysati. Sporidia disticha, ex oblongo breve fusioidea, utrinque acuta, hyalina.

- * 1. **Scortechinia acanthostroma** (Mont.) Sacc. et Berl. Misc. Myc. II, n. 22, *Sphæria acanthostroma* Mont., *Trichosphaeria acanthostroma* Sacc. Syll. I, p. 454. — Ascis p. sp. 35-10 \approx 9, stipite 35-10 \approx 2,5; sporidia 10-11 \approx 3,5-4,5, biguttata, adsunt quoque conidia hyphis dispersa obovato-oblonga, 12-13 \approx 5-6, binucleata, pallide lutescentia.

Hab. ad cortices arborum, Burleigh Head Australiæ.

WALLROTHIELLA Sacc. Syll. I, p. 455.

- * 1. **Wallrothiella eunotiæspora** (Cooke et Harkn.) Berl. et Vogl., *Sphæria eunotiæspora* Cooke et Harkness in Grevillea XIII, p. 18. — Superficialis, gregaria; peritheciis obpiriformibus, $\frac{1}{2}$ mm. diam., atris, subnitidis, levibus, fragilibus; ascis clavatis; sporidiis ellipticis, medio inflatis, biseriatis, continuis, 30-35 \approx 12-14, plasmate granuloso.

Hab. in Acacia quadam ex Australia, decorticata, in California (HARKNESS). — Socia adest *Diplodia* quædam.

INZENGÆA Borzi Ein neu. Ascom. (Ety. a claro mycologo sieulo G. INZENGA). — Perithecia superficialia, globoso-obovata, poro amplo pertusa, majuscula. Asci primum globosi, dein stellati, octospori. Sporidia stellata, uninucleata hyalina. Status conidicus *Sty-sanus Borzianus* Sacc. — Ob sporidia eximie stellata, genus hoc sectionem propriam (*Actinosporæ*) constituere forte meretur.

1. **Inzengæa erythrospora** Borzi Inz. ein. neu. Ascomyc. tab. XIX, fig. 9-10. — Peritheciis superficialibus, verticaliter globoso-obovatis, subiculo myceliali insidentibus, poro amplo pertusis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. altis; ascis globosis, primum tunica levi instructis demum crasse muricatis, stellatisque, 17 μ . diam., octosporis; sporidiis stellatis, crasse uninucleatis, 8 μ . diam., hyalinis.

Hab. in fructibus putridis Oleæ europææ, S. Filippo Sici-liæ. — Status conidicus *Sty-sanus Borzianus* Sacc.

BOTRYOSPHERIA Ces. et De Not. — Sacc. Syll. I, p. 456.

1. **Botryosphæria Quercuum** (Schw.) Sacc. Syll. I, p. 456, var. **Carpini** Sacc. Misc. Myc. II, pag. 21, n. 92. — Acervulis pulvinatis, minutis, aterrimis; ascis clavatis, crasse tunicatis, 120-140 \approx 28-32, crassiuscule paraphysatis, octosporis; sporidiis distichis, ovoideis, 28-32 \approx 14-18, intus granulosis, hyalinis.

Hab. in ramis Carpini, Troyes Galliæ (BRIARD).

2. **Botryosphæria Bérengeriana** De Not. — Sacc. Syll. I, p. 457, *B. 1763
pachyspora Sacc. Misc. Myc. II, pag. 22, n. 31. — A typo recedit sporidiis crassioribus, nempe 20-32 ≈ 14-18, et ascis angustioribus, nempe 120-180 ≈ 28-32.

Hab. in ramis emortuis Garpini, Troyes Galliæ (BRIARD).

- *2. **Botryosphæria mutila** (Schw.) Cooke in Grevillea, *Sphæria mu-* 6401
tula Schw. Amer. bor. n. 1439, sec. spec. — Stromate innato; peritheciis in series flexuosas erumpentibus, subconfluentibus, globosis, superiore parte prominente, inæquali, rugosa, intus nucleo albedo faretis; ascis clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, 20-22 ≈ 9.

Hab. in Populo etc. in America boreali. — Verisimiliter huc spectat *Botryosphæria Bérengeriana*.

- *3. **Botryosphæria Viburni** Cooke in Grevillea XIII, p. 102. — Stro- 6402
 matibus erumpentibus, gregariis, minimis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., corticulis, depresso pulvinatis, atro-fuscis, superficie tuberculosis, nucleo albo faretis; peritheciis 6-10, subimmersis, vertice convexis, pertusis; ascis clavatis; sporidiis arcte ellipticis, continuis, flavescensibus, intus granulosis, 18-21 ≈ 8.

Hab. in ramis Viburni Opuli in America boreali.

- *4. **Botryosphæria abrupta** Berk. et Curt. in Herb. Berk., Cooke in 6403
 Grevillea XIII, p. 101. — Stromatibus erumpentibus, epidermide fissurata arcte cinctis, subdiscoideis; peritheciis globosis, semiimmersis, atris, demum confluentibus, truncato-obtusis, abruptis, intus albis; ascis clavatis, octosporis; sporidiis elliptico-fusiforibus, utrinque subattenuatis, obtusis, continuis, hyalinis, flavescensibus, intus granulosis, 22-24 ≈ 10.

Hab. in Cyrilla in Carolina Americæ.

- *5. **Botryosphæria Syringæ** (Schw.) Cooke in Grevillea *Sphæria Sy-* 6404
ringæ Schw. Amer. bor. n. 1667. — Ascis elongato-clavatis, octosporis; sporidiis arcte ellipticis, continuis, hyalinis, 26-28 ≈ 8.

Hab. in ramis Syringæ in Amer. bor. (ELLIS).

- *6. **Botryosphæria Araliæ** Curt. Cat. 143, Cooke in Grevillea XIII, 6405
 pag. 101. — Stromatibus innato-erumpentibus, corticulis, subpulvinatis, nigris, plerumque lineato-aggregatis, 1 mm. diam., albofaretis, peridermate cinctis; peritheciis vix distinctis, obtusiusculis, opacis; ascis clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, 18 ≈ 8.

Hab. in cortice Araliæ spinosæ in Carolina Amer. bor.

- *8. **Botryosphæria melachroa** Berk. et Curt. in Herb. Berk., Cooke 6406

in *Grevillea* XIII, p. 101. — Stromate longitudinaliter effuso, in-nato, erumpente; peritheciis ovatis, confertis, subdiscretis, atris, ad apicem rotundatis, paucis; ascis clavato-cylindricis; sporidiis ellipticis, continuis, $20 \approx 8$, hyalinis.

Hab. in *Cratægo cordato* in Pennsylvania.

- *13. **Botryosphæria hypoxyloidea** Cooke in *Grevillea* XII, pag. 102. 64
— Mox superficialis, hypoxyloidea; peritheciis minimis, in pustulis orbicularibus coacervatis, convexis rugosis, atris, opacis, confluentibus; ascis cylindrico-clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, $12 \approx 5$.

Hab. in ramis in Australia.

- *17. **Botryosphæria Callicarpæ** Cooke in *Grevillea* XIII, p. 101. — 64
Longitudinaliter erumpens; stromate elongato; peritheciis parvulis, confluentibus, atris; ascis clavatis; sporidiis continuis (immaturis visis).

Hab. in cortice *Callicarpæ americanæ*, Darien Georgia.

- *18. **Botryosphæria Hypericorum** Cooke in *Grevillea* XIII, p. 102. 64
— Subelliptica, planiuscula, atra; peritheciis parvulis, connatis, albo-faretis, epidermide fissa arcte cinctis; ascis clavatis, octosporis; sporidiis anguste ellipticis, continuis, hyalinis, circiter $20 \approx 5$, immaturis.

Hab. in caule *Hyperici proliferi* in America boreali.

- *28. **Botryosphæria subconnata** (Schw.) Cooke in *Grev.* XIII, p. 101, 42
Sphæria subconnata Schw. Am. bor. n. 1443, Sacc. Syll. II, p. 393,
Wintéria vatsarioides Rehm in *Thüm. Myc. Univ.* n. 2166. —
Specimina *Berkeleyana* et *Schweinitziana* perfecte congruunt.

CRYPTOSPORELLA Sacc. Syll. I, p. 466.

- *10. **Cryptosporella divergens** (Schw.) Berl. et Vogl. *Sphæria di-* 64
vergens Schw. Syn. Car. 123 et Syn. Amer. bor. n. 1393, *Valsa divergens* Cooke in *Grevillea* XIII, p. 40. — Stromate tumidiusculo; acervulis perithecorum 5-10 mm. diam. æquantibus, suborbicularibus, epidermide cinctis; peritheciis atris vel cinerescentibus, ostioli teretibus, longissimis, perithecio triplo longioribus, divergentibus; ascis octosporis; sporidiis subellipticis, hyalinis, $7 \approx 2$, endochromate granuloso faretis.

Hab. in ramis dejectis *Liquidambaris* in Amer. bor.

- *108. **Cryptosporella paucispora** (Peck) Berl. et Vogl. *Valsa pauci-* 61
spora Peck in 33 Rep. St. Mus. 1883, p. 33. — Pustulis epidermide vix elevata, demum rupta tectis; peritheciis 2-5, cortice in-

teriore insidentibus; ostiolis brevibus, nigris, discum minutum, pallidum perforantibus, raro leniter radiato-sulcatis; ascis brevibus, 62-70 μ . longis, subcylindraceis, tetrasporis; sporidiis simplicibus, monostichis, subhyalinis, ovato-ellipsoideis, 15-20 \approx 10-11.

Hab. in ramulis emortuis Alni, North Greenbush Amer. bor.

Sect. 4. Hyalodidymæ Sacc.

SPHÆRELLA Ces. et De Not. — Sacc. Syll. I, p. 476.

*2. **Sphærella fraxinea** Peck in 35 Rep. St. Mus. 1884, pag. 145. 6412

— Peritheciis numerosis, minutis 75 μ . diam., nigris, epiphyllis vel hypophyllis, sæpe in maculis suborbicularibus coacervatis; ascis oblongis, sæpe sursum leniter attenuatis, 35-40; sporidiis stipatis, oblongo-ovoideis, uniseptatis, 10-12 \approx 4-5, inæqualibus, parte majore tripla vel quadrupla.

Hab. in foliis Fraxini americanæ in montibus Helderberg Amer. bor.

*5. **Sphærella Evansiæ** Pat. in Rev. Myc. 1886, pag. 83. — Peri- 6413

theciis brunneis, minutis, 120-150 μ . diam., sparsis, primum epidermide tectis dein emersis; ascis subsessilibus, apophysatis, 50-90 \approx 18-22, 8-sporis; sporidiis distichis, bilocularibus, altero rotundato, altero vero attenuato, septo parum constrictis, hyalino-viridulis, 15 \approx 4.

Hab. in foliis emortuis Evansiæ fimbriatæ, Thibet (AB. DAVID).

*18. **Sphærella acicola** Cooke et Hark. in Grevillea XIII, p. 20. — 6414

Sparsa, minuta, subinnata; peritheciis globoso-depressis, membranaceis, fuscis; ascis breviter clavatis, octosporis; sporidiis clavato-ellipticis, uniseptatis, hyalinis, flavidis, loculis altero subgloboso, altero angustiore subconico, 7 \approx 3.

Hab. in acubus Pini in California (HARKNESS).

*19. **Sphærella conigena** Peck 38 Rep. Stat. Mus. p. 104. — Peri- 6415

theciis minutis, sparsis vel gregariis, vix prominulis, erumpentibus, nigris; ascis subcylindraceis, 60-85 \approx 12; sporidiis stipatis, oblongo-clavatis, uniseptato-constrictis, 10-12 \approx 4-5, loculis inæqualibus, inferiore acutiore, superiore crassiore rotundatoque.

Hab. in conis dejectis Abietis canadensis in montibus Helderberg Amer. bor. — Differt a *S. Pinsapo* longitudine ascorum et fabrica sporidiorum nec non matrice.

*20. **Sphærella Sassafras** Ell. et Ev. in Torr. bot. Club 1883, p. 98. — 6416

Peritheciis minutis, semiimmersis, in superficie inferiore foliorum.

sparsis vel subaggregatis, sed non in quaque macula decolorata adstantibus; ascis $35 \approx 5$; sporidiis distichis, oblongo-ellipsoideis, uniseptatis, $4 \approx 1,7$, hyalinis.

Hab. in foliis emortuis Sassafras officinalis, Fairfield, Ohio Amer. bor. (W. A. KELLERMANN).

- *27. **Sphærella exarida** Winter in Rev. Myc. 1885. — Peritheciis in macula, plerumque magna, irregulari, determinata, fuscescente-grisea, arida, elevata, fusco-nigro-limitata gregariis, immersis, globosis, ostiolo papillato, pertuso prominulo, membranaceo, atro, $90-115 \mu$. diam.; ascis oblongis vel e basi latiori sursum parum attenuatis, sessilibus, 8-sporis, $42-52 \approx 12-14$; sporidiis conglobatis, anguste clavatis, utrinque rotundatis, interdum parum curvatis, medio septatis, non constrictis, hyalinis, $17-21 \approx 3,5-4$.

Hab. ad folia viva Sapindaceæ cujusdam, Guarapi Paraguay Amer. austr.

- *29 **Sphærella conferta** Speg. Fung. Guar. Pug. I, n. 216. — Maculis amphigenis, parvulis, 1-2 mm. diam., arescentibus, sordide fusco-griseis, obscure determinatis, irregulariter discoideis, angulosis v. repandulis, densiuscule sparsis; peritheciis hypophyllis, rarissime epiphyllis, numerosissimis, densissime constipatis, maculas nigras facientibus, epidermide primo tectis, dein suberumpentibus, atris, glabris, globoso-lenticularibus, $70-80 \mu$. diam., minute papillulato-ostiolatis, membranaceis, contextu parenchymatico, olivaceo; ascis cylindraceo-obclavatis v. subovatis, antice subtruncato-rotundatis, postice abrupte, nodulose brevissimeque stipitatis, $30-35 \approx 8-10$, aparaphysatis, 8-sporis; sporidiis distichis, elliptico-elongatis, rectis v. vix inæquilateralibus, utrinque rotundatis, $10-13 \approx 2,5-3$, medio 1-septatis, non constrictis, loculis in senectute (an semper?) obscure diblastibus, 1-2-guttulatis, supero sæpe subcrassiore, hyalinis.

Hab. ad folia languida v. dejecta Sapindaceæ cujusdam in silvis prope Guarapi Bras. — Species habitu mox distinguenda, facillime ad genus *Sphærvulina* transferenda.

- *40. **Sphærella Hesperidum** Penz. et Sacc. Contr. fungh. agrum. II, p. 12. — Peritheciis laxè aggregatis, amphigenis, primum epidermide velatis, dein prorumpentibus, in arida foliorum macula insidentibus, subglobosis, aterrimis, $130-160 \mu$. d.; ascis clavatis, subsessilibus, apice truncatis, crasse tunicatis, $50-70 \approx 14-16$, octosporis; sporidiis distichis, fusoides, $16-18 \approx 4-5$, uniseptatis, medio haud constrictis, hyalinis.

Hab. in foliis vivis Citri Limonum, Valle di Latte prope Ventimiglia Ital. bor.

46. **Sphærella assimilata** J. Kunze. — Sacc. Syll. I, p. 486, Winter 1864
in Hedwigia 1886, p. 21. — Sporidia 8-10 \approx 2,5-3.

47. **Sphærella curva** Karst. in Hedw. 1883, n. 12, p. 3. — Rev. atque 6420
Synop. Ascom. fenn. p. 65. — Peritheciis?; ascis oblongatis, curvulis, infra medium inæqualiter inflatis, 46 \approx 14; sporidiis ovoideo-oblongatis, uniseptatis, ad septum leviter constrictis, rectis, dilute luteolis, 12 \approx 4-5.

Hab. in foliis emortuis Ribis alpini ad Mustiala Fennicæ.

* 49. **Sphærella Mygindæ** Winter Contr. Fl. Myc. Lus. V, p. 13. — 6421
Peritheciis densis, gregariis, macula cinerea, rotundato-diformi, 1-10 mm. lata, interdum effusa et folii magnam partem occupante, insidentibus, primo immersis, demum superficialibus, punctiformibus, globosis, poro pertusis, atris, 80-90 μ . diam.; ascis elongato-obclavatis, in stipitem brevem productis, 36-48 μ . longis, infra medium 7 μ . latis, sursum usque 5 μ . attenuatis; sporidiis fusiformibus, sæpe parum inæquilateralibus, bicellularibus, cellula superiori parum latiori, hyalinis, inordinate distichis, 10-12 \approx 2,5.

Hab. ad Mygindæ pallentis folia arida, Coimbra Lusitaniæ (MOLLER).

* 63. **Sphærella rubiginosa** Cooke in Grevillea XIII, p. 90. — Epi- 6422
phylla; peritheciis sparsis, minutis, punctiformibus, subprominulis, atris; ascis clavatis, sessilibus; sporidiis ellipticis, obtusis, medio leniter constrictis, uniseptatis, chlorinis, 10 \approx 5.

Hab. in foliis emortuis Pittospori rubiginosi, Johnston River, Queensland Australiæ. — A *Sph. Pittospori* omnino diversa, tametsi fructificatio similis.

* 64. **Sphærella Sophoræ** Winter Contr. Fl. Myc. Lus. V, p. 13. — 6423
Peritheciis in macula pallida, exarida, fusco-atrocincta, 2-5 mm. lata, rotundata, amphigena, immersis, ostiolo punctiformi perforatis, globosis, fuscis, 90-110 μ . diam.; ascis elongato-oblongis, sessilibus, sursum vix attenuatis, rotundatis, 8-sporis, 56-68 \approx 15-16; sporidiis subdistichis, oblongis, didymis, hyalinis medio profunde constrictis, inæquilateralibus, cellula superiori latiori, guttulis, 15-17 \approx 7-8.

Hab. in Sophoræ sp. foliis vivis, Coimbra Lusitaniæ (MOLLER).

* 67. **Sphærella morifolia** Pass. in Erb. Critt. Ital. ser. II, n. 1464. 6424
— Peritheciis hypophyllis, sparsis vel subgregariis, superficialibus, globosis, atris; ascis brevibus, ut plurimum curvulis, basi inflatis.

inæquilateralibus, 50-55 \approx 10-15; sporidiis distichis vel acervato-subtristichis, oblongo-cuneatis, ad septum non vel leniter constrictis, 17-25 \approx 5-5 $\frac{1}{2}$, hyalinis.

Hab. in foliis dejectis Mori albæ, Parma Ital. bor.

- *71. **Sphærella Umbellariæ** Cooke et Hark. in Grev. XIII, p. 21. — 64
Hypophylla; maculis suborbicularibus confluentibusve et irregularibus, purpureo-brunneis, margine nigro limitatis; peritheciis hinc illinc aggregatis, semiimmersis, atris; ascis clavatis; sporidiis biserialibus, arete ellipticis, uniseptatis, hyalinis, 15 \approx 4.

Hab. in foliis emortuis Umbellariæ in California.

- *72. **Sphærella tahitensis** Sacc. Misc. Myc. I, pag. 27. — 64
Peritheciis hypophyllis, velatis, hinc inde dense gregariis, punctiformibus, lenticularibus, pertusis, 80 μ . diam.; ascis tereti-fusoideis, subsessilibus, apice rotundatis, 48 \approx 7-8, octosporis; sporidiis distichis fusioideo-clavulatis, 1-septatis, leniter constrictis, 4-guttulatis, 11 \approx 3, hyalinis.

Hab. in foliis emortuis Mangiferæ indicæ (sociâ *Pestalotzia funerea* f. *Mangiferæ*: conidiis quam in typo paullo minoribus, 22 \approx 6) in insula oceanica Tahiti (G. BRUNAUD).

- *79. **Sphærella hæmatodes** B. et C. in Herb. Berk., Cooke in Journ. 64
of Bot. 1883, p. 70. — Epiphylla; maculis orbicularibus, sparsis vel confluentibus, rubro-fuscis, late marginatis; peritheciis minimis, nigris, semiimmersis, punctiformibus; ascis cylindrico-clavatis; sporidiis arete ellipticis, continuis, hyalinis, 8-10 \approx 2,5.

Hab. in *Kalmia glauca* in Amer. bor. — *Sph. colorata* valde affinis.

80. **Sphærella cinerescens** Fuck. — Sacc. Syll. I, pag. 193, Winter 18
in Hedwigia 1886, p. 21. — Perithecia maculas cinerescentes, plus minusve effusas formantia.

81. **Sphærella cerasina** Cooke. — Sacc. Syll. I, p. 493, var. **padina** 18
Karst. in Hedw. 1884, n. 1, p. 2, — Rev. atque Synop. Ascom. fenn. p. 64. — Peritheciis hypophyllis, innato-prominulis, punctiformibus, spheroides, in maculas inæquales, subinde orbiculares, plus minus dense aggregatis, astomis; ascis cylindræo-clavulatis, 28 \approx 6; sporidiis ovoideo-oblongatis, uniseptatis, 8 \approx 3.

Hab. in foliis Pruni Padi in regione Aboënsi.

- *82. **Sphærella arbuticola** Peck in Torr. bot. Club. 1883, p. 75. — 64
Maculicola; maculis suborbicularibus, inæqualibus, nigrescentibus vel cinereis, brunneis, paginam inferiorem foliorum occupantibus; peritheciis minutis, nigris, epiphyllis, sparsis vel in glomerulos

minutos congestis, epidermidem perforantibus; ascis oblongis, sæpe sursum acutis, 40-125 μ . longis; sporidiis stipatis, acutis, uniseptatis, 11-15 \approx 4, hyalinis.

Hab. in foliis mortuis *Arbuti Menziensis*, Santa Cruz in California (C. G. PRINGLE).

- * 83. **Sphærella corylina** Karst. in Hedw. 1884, n. 1, p. 4. — Rev. 6429
 atque Synop. Ascom. fenn. p. 64. — Peritheciis hypophyllis, per totam paginam dispersis, initio epidermide tectis, dein liberis, sub-superficialibus, conoideo-sphæroideis, poro pertusis, atris, 60-80 μ . diam.; ascis cylindræco-elongatis, vulgo curvulis, sæpe prope medium leviter inflatis, 30-44 \approx 8; sporidiis 8:nis, distichis, oblongatis vel ovoideo-oblongatis, uniseptatis, eguttulatis, 8-14 \approx 2-4.

Hab. in foliis *Coryli Avellanæ* ad Mustiala Fennicæ.

- * 84. **Sphærella Gallæ** Ell. et Ev. in Torr. bot. Club. 1884, p. 75. — 6430
 Peritheciis minutis, sparsis vel 2-3 gregariis, epidermidem rumpentibus; ascis 40-45 \approx 10, sessilibus; sporidiis stipatis, bi-tristichis, subtilibus, clavatis, 1-septatis, 12-15 \approx 3.

Hab. in gallis *Vaccinii corymbosi*, Newfield Amer. bor.

- * 95. **Sphærella Cercidis** Pass. in Erb. Critt. Ital. Ser. II, n. 1463. 6431
 — Peritheciis hypophyllis, sparsis vel laxe gregariis, punctiformibus, tectis dein denudatis, atris; ascis forma et longitudine variis, cylindricis, clavatis aut medio ventricosis; sporidiis oblongo-cuneatis, medio tenuissime septatis, vix vel minime constrictis, 17-20 \approx 7 $\frac{1}{2}$.

Hab. ad folia strata *Cercidis japonicæ* in Horto Botanico Parmensi Ital. bor. (PASSERINI).

- * 105. **Sphærella pandurata** Ell. et Ev. in Bull. Torr. bot. Club. 1883, 6432
 p. 117. — Hypophylla; peritheciis globosis, 0,17-0,25 mm. diam., parenchymate foliorum immersis, ostiolo papilliformi minuto, epidermide nigrescente tecto, rotundato, prominulis; ascis oblongo cylindræcis, 50 \approx 7; sporidiis distichis, fusiformibus, 4-nucleatis, flaveolis, medio constrictis, loculis ad septum turgidoribus, 10-12 \approx 3.

Hab. in foliis delapsis, Plainfield Amer. bor. (G. F. MESCUTT).

- * 106. **Sphærella conigena** Peck in 33 Rep. St. Mus. p. 34. — Peri- 6433
 theciis minutis, erumpentibus, nigris; ascis latis, obovatis vel subclavatis, sæpe apicæ acutis; sporidiis oblongis vel subcylindræcis, demum uniseptatis, 25-40 μ . longis.

Hab. in conis *Thujae* in montibus Hederberg Amer. bor.

- * 111. **Sphærella sordidula** Speng. Fungi Guar. Pug. I, n. 217. — Peri- 6434
 theciis hinc inde sparsis v. paucis laxè aggregatis, matricæ cir-

cum circa pallescente v. albicante (ceterum sordide grisea) insidentibus, tectis, vix prominulis, ostiolo minuto, epidermidem perforante, exerto donatis, udis globulosis, siccis cupulato-collapsis, 80-100 μ . diam., atris, membranaceis, contextu parenchymatico, pellucide fuligineo, ostiolo subcarbonaceo, opaco; ascis ovatis v. obelavatis, crassis, apice obtuse rotundatis, basi abrupte, minute brevissimeque stipitatis, 30-35 \approx 12-15, aparthysatis, 8-sporis; sporidiis di-tri-stichis, elliptico-elongatis, utrinque rotundatis, 12-14 \approx 4-5 medio 1-septatis, leniter constrictis, loculis 2-guttulatis, æqualibus v. supero vix majore, hyalinis.

Hab. ad siliquas exsiccatas adhuc pendulas Cassiæ speciei cujusdam in dumetis prope Guarapi Bras.

- * 112. **Sphærella fusispora** Fuck. in Reis. nach Nordpolarm. et Oud. Contr. Fl. Myc. Now. Semlja pag. 151, tab. II, fig. 4. — Peritheciis in gregibus laxis sub epidermide nidulantibus, demum totis liberis, minutis, aterrimis, globosis, ostiolo papillæformi, truncato, perforato; ascis fasciculatis, oblongis, sessilibus, 8-sporis, 60 \approx 20; sporidiis oblique imbricato-distichis, fusiformibus, subrectis, utrinque obtusiusculis, inæqualiter didymis, ad septum parum constrictis, loculis 1-2-guttulatis, 24 \approx 6, hyalinis.

Hab. in foliis et caulibus exsiccatis Ranunculi pygmæi, Nowaja Semlja.

- * 113. **Sphærella nivalis** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 11, t. I, f. 8. — Peritheciis minutis, primitus infra epidermidem absconditis, postremo vertice prominulis, poro pertusis, quoad structuram tenerrimis; ascis cylindraceis, brevissime pedicellatis, 90 \approx 9, 8-sporis; sporidiis monostichis, hyalinis, oblongis, 1-septatis, loculo superiore subampliore, 11-12 \approx 4-5.

Hab. in Ranunculo nivali var. sulphureo, Nowaja Semlja.

- * 115. **Sphærella Thalictri** Ell. et Ev. in Journ. of Myc. 1885, p. 44. — Peritheciis hypophyllis, 90 μ . diam., contextu crasse parenchymatico, sursum late pertusis, hemisphæricis, in siccitate complanatis, sparsis in maculis parvis, 2-3 mm. diam., rotundis, margine obscuro cinctis; ascis sessilibus, 36 \approx 7; sporidiis stipatis, ovato-oblongis, granulosis, nucleatis, (demum uniseptatis?) 12-16 \approx 3-4 $\frac{1}{2}$.

Hab. in foliis Thalictri dioici, Parsippany Americæ borealis (W. TRELEASE).

- * 117. **Sphærella Macowiana** Winter Ex. Pilze p. 9, in Flora 1884. — Peritheciis densissime gregariis, greges forma varia, a nervis li-

mitatos, maculiformes, cinereos, angulatos formantibus, minutissimis, valde prominentibus, globosis, atris, ostiolo punctiformi, 70 μ . diam.; ascis oblongo-cylindræis, interdum deorsum parum inflatis, sessilibus, 8-sporis, 35-44 \approx 9-11; sporidiis distichis, oblongis, utrinque parum attenuatis, uniseptatis, ad septum vix constrictis, sæpe inæquilateralibus et parum curvatis, hyalinis, 12-14 \approx 3,5.

Hab. in foliis languidis Melianthi majoris in Promontorio Bonæ Spei Afr. austr. (MAC OWAN).

- * 121. **Sphærella densa** Rostrup Islands Svampe p. 8. — Peritheciis 6439
dense stipatis, amphigenis, rufo-fuscis, sphæroideis; ascis oblongo-clavatis, 38-42 \approx 7-9, 8-sporis; sporidiis distichis, fusoido-oblongatis, 1-septatis, hyalinis, 12-14 \approx 4, paraphysibus nullis.

Hab. in foliis Arenariæ norvegicæ in insula Islandia.

- * 125. **Sphærella adusta** Fuck. in Reis. nach Nordpolarm. et Oud. 6440
Contr. Fl. Myc. Now. Seml. p. 151, tab. II, fig. 3. — Peritheciis in maculis fusco-nigris, rugulosis, adustis, quandoque totum folium caulemque occupantibus, gregariis, minutis, atris, depresso globosis, ostiolo prominulo, papilliformi, perforato; ascis fasciculatis, sessilibus, 8-sporis, 56 \approx 16; sporidiis distichis, oblongo-clavatis, rectis, antice obtusissimis, basi acuminatis, valde inæqualiter didymis, septo in sporidii angustiore parte, ad septum non constrictis, hyalinis, 16 \approx 6.

Hab. in foliis et caulibus siccis Epilobii latifolii, Nowaja Semlja.

- * 127. **Sphærella Desmodii** Winter in Journ. of Myc. p. 121 -- Peri- 6441
theciis epiphyllis, in maculis magnis, valde irregularibus, arescendo griseis fuscidulisve, margine obscuriori, determinato, varie flexuoso et sinuato circumdatis, gregariis, minutis, hemisphæricis, poro simplici pertusis, atris, 70-90 μ . d.; ascis oblongo-cylindræis, sursum parum attenuatis, vertice rotundatis, sessilibus, 8-sporis, 35-40 \approx 6-7; sporidiis distichis, cymbiformibus v. fusoides, sæpe plus minusve curvatis, medio uniseptatis, sed non constrictis, hyalinis, 10,2-12 \approx 2,5-3,5.

Hab. ad folia viva Desmodii canescentis, Missouri.

- * 128. **Sphærella Linhartiana** Niessl in Linhart Fungi Hungar. n. 461. 6442
— Peritheciis numerosissimis, dense disseminatis, epidermide innatis, globosis, ostiolo punctiformi, atris, 100-130 μ . diam.; ascis fasciculatis, clavatis, 45-60 \approx 9-12 et interdum ultra latis, 8-sporis; sporidiis distichis, oblongo-fusiformibus, sæpe curvatis, utrinque

obtusis, medio uniseptatis, sed vix constrictis, demum guttulis quaternis, hyalinis, 10-12 \approx 3-4.

Hab. in caulibus siccis Meliloti albi in Hungaria. — *Sph. leptasca* affinis sed ascis amplis, sporidiis distichis distinguenda.

- * 129. **Sphærella consociata** Rehm in Hedwigia 1885, p. 238. — Peritheciis plerumque gregariis, subimmersis vel sessilibus, globosis, in papillulam acutam protractis, haud perspicue perforatis, atris, glabris, 0,2-2,5 mm. diam., parenchymatice fusce contextis; ascis ellipticis vel pseudo-piriformibus, latis, basi sessilibus, crassis, 8-sporis, 50-60 \approx 18-21; sporidiis 3-4-stichis, clavatis, subobtusis, 2-cellularibus, cellulis æqualiter longis, medio haud constrictis, rectis, hyalinis, 18-20 \approx 5; paraphysibus nullis.

Hab. ad caules siccos Trifolii pallescentis ad glaciem æternam montis Ortler propè Sulden in Tirolia (Dr. REHM).

130. **Sphærella nerviseda** Speg. — Sacc. Syll. I, p. 504, *var. microspora*: Sacc. Misc. Myc. II, p. 22. — Sporidiis clavulatis quam in typo brevioribus, 10-12 \approx 4,5 in ascis clavulatis, 50 \approx 10, oblique monostichis.

Hab. in foliis emortuis Orobi verni, sociis spermogoniis: *Septoria orobicola* et *Phyllosticta orobella* pr. Neuchatel Galliae (MORTIER).

- * 132. **Sphærella Potentillæ** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 15, t. I, f. 15. — Peritheciis in foliis aridis hospitantibus.....; ascis inæquilateralibus, oblongo-clavatis, paraphysatis, 70-80 \approx 14, membrana ubique æquali, vulgo 20 in eodem perithecio; sporidiis distichis, rectis, hyalinis oblongo-obovatis, 1-septatis, 18-23 \approx 5-7, parte dimidia anteriore latiore, rotundata, posteriore multo angustiore, ad altitudinem septi paululum constrictis.

Hab. in foliis aridis Potentillæ fragiformis, Nowaja Semlja.

- * 133. **Sphærella Earliana** Winter in Journ. of Myc. p. 101. — Peritheciis amphigenis, densissime stipatis, greges parvos, angulato-rotundatos, 1-2 mm. latos, nigros formantibus, minutissimis, globosis, poro simplici pertusis, atris, 60-70 μ . diam.; ascis fasciculatis e basi subventricosa sursum parum attenuatis, brevissime stipitatis, 8-sporis, 26-30 \approx 7; sporidiis inordinatis clavatis, medio uniseptatis, non constrictis, hyalinis, 8 \approx 2; paraphysibus nullis.

Hab. in *Fragaria culta*, Anna Amer. bor. (F. S. EARLE). — Ascis et sporidiis a *S. Fragariæ* distinguenda.

- * 137. **Sphaerella Octopetalæ** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 14, t. I, f. 14. — Peritheciis epiphyllis, subgregariis, minutissimis 50 μ . diam., atris, absque ullo macularum vestigio, parte basilari in foliorum parenchymate absconditis, apicali vero supra epidermidem prominente, e parenchymate laxo, fusciscenti-nigro contextis; ascis maturis, 70-80 \approx 25, membrana sursum praesertim gelatinoso-incrassatis, 8-sporis, paraphysisibus deficientibus; sporidiis hyalinis, di-vel tri-stichis, oblongo-obovatis, 21 \approx 7, septatis, ad septum levissime constrictis, parte distalida antica latiore, subhemisphaerica, circa 9 μ ., postica paululum angustiore, magis oblonga, circa 12 μ . longa.

Hab. in foliis Dryadis octopetalæ, Nowaja Semlja.

- * 146. **Sphaerella maculicola** Wint. in Hedwigia 1885. — Peritheciis gregariis in macula determinata, irregulari, pallide fusca, linea obscuriori limitata epiphyllis, immersis, globosis, membranaceis, atris, poro pertusis; 100 μ . latis; ascis elongato-oblongis, fere fusiformibus, h. e. utrinque longe attenuatis, substipitatis, 8-sporis, 50-60 \approx 9-12; sporidiis conglobatis, elongato-subelavatis, utrinque attenuatis et rotundatis, medio uniseptatis, sed non constrictis, 14-16 \approx 3,5, hyalinis.

Hab. ad folia Helicrysi (an petiolati? vel nudifolii?) Somerset-East, Promont. Bonæ Spei (MAC OWAN).

- * 152. **Sphaerella Pulviscula** Cocc. et Mor. Enum. Fung. della provincia di Bologna Cent. III, p. 27, t. II, f. 36-30. — Peritheciis globosis, perpusillis, 60-72 μ . d., crebre sparsis, granuliformibus, atris, nitidis; ascis brevibus, obovatis, subsessilibus, 22-26 \approx 9-11, 8-sporis; sporidiis subtristichis, navicularibus, medio septatis, hyalinis, 8-11 \approx 2-2 $\frac{1}{2}$; paraphysisibus nullis.

Hab. in caulibus et foliis Dianthi brachyanthi in Pyrenæis Galliae.

- * 153. **Sphaerella subnivalis** Rehm in Hedwigia 1885, p. 237. — Peritheciis gregariis, in foliis dealbatis sessilibus, fusco-nigris, globosis, poro minutissimo pertusis, 0,15 mm. diam., parenchymatice fusce contextis, glabris; ascis latis, basi sessilibus, sursum attenuatis, crassis, 8-sporis, 40-45 \approx 9; sporidiis clavatis, 2-cellularibus, cellula superiore latiore, plerumque utrinque 2-nucleolatis, rectis, hyalinis, distichis, 12-15 \approx 3-4,5; paraphysisibus nullis.

Hab. ad folia sicca, vix nive liberata Cerastii latifolii juxta glaciem aeternam montis Ortler prope Sulden in Tirolia (D. REHM).

158. **Sphaerella Eryngii** (Fr.) Cooke Handb. n. 2761, Sacc. Syll. I. 1976

p. 511, Winter in Hedwigia 1886, p. 19. — Asci 40-44 \approx 7; sporidia cylindrico-fusiformia, 19-21 \approx 2,5.

- * 165. **Sphærella Œnotheræ** Ell. et Ev. in Journ. of Myc. 1885, p. 151. — Peritheciis erumpentibus, hemisphæricis, 90-100 μ . diam., sursum late pertusis, dense gregariis et sæpe in series latas in valvis capsularum dispositis; ascis oblongis, sursum leniter attenuatis, basi abrupte contractis atque in pedicellum breve desinentibus; sporidiis distichis, forma variis, oblongis vel ovato-oblongis, 10-15 \approx 3, nucleatis vel oblongo-fusiformibus, vix curvulis, obscure 1-septatis, 15-20 \approx 3-3,5.

Hab. in capsulis Œnotheræ biennis, Newfield Amer. bor.

166. **Sphærella depazeæformis** (Auersw.) Sacc. Syll. I, p. 513, Winter in Hedwigia 1886, p. 20. — Huc ducenda sec. Winter (Hedw. l. c.) *Læstadia Oxalidis* Sacc. Syll. I, p. 429, n. 1635.

- * 169. **Sphærella leucophæa** Ellis et Kellerm. in Journ. of Myc. 1886, p. 3. — Peritheciis punctiformibus, minutis, 70-100 μ . diam., in parenchymate foliorum immersis, ostiolis perforatis, longiusculis; ascis oblongis, sessilibus vel breviter pedicellatis, 75-80 \approx 7-8; paraphysisibus nullis; sporidiis distichis, fusiformibus, 1-septatis, septo leniter constrictis, 18-20 \approx 3 $\frac{1}{2}$, hyalinis.

Hab. in foliis emortuis Baptisiæ leucophææ, Manhattan, Kansas Amer. bor. — Certe a *Sph. baptisiæcola* distincta.

171. **Sphærella pinodes** (Berk. et Blox.) Niessl, Sacc. Syll. I, p. 514, Winter in Hedwigia 1885, pag. 20. — Perithecia numerosissima, dense sparsa, poro pertusa, tenuissime membranacea, sub microscopio fusca, 100-140 μ . diam.; asci oblongo-cylindræci, sessiles vel breviter stipitati, sæpe basi parum incrassati, 58-62 \approx 12; sporidia subdisticha, oblonga, utrinque parum attenuata, sæpe inæquilateralia, 14-16 \approx 5,

- * 171. **Sphærella vesicaria** Pass. in Erb. Critt. It. Ser. II, n. 1367. — Peritheciis superficialibus, sparsis vel subgregariis, subglobosis, atris, ostiolo papillari, cellulis amplis, fuscis contextis; ascis oblongis, basi saccatis, breviter et abrupte stipitatis, superne attenuatis, 75 \approx 25; sporidiis subtristichis oblongis, medio septatis, non v. vix constrictis, loculo altero leniter attenuato, hyalinis, 17,5 \approx 7,5.

Hab. in leguminibus aridis Coluteæ arborescentis, Parma Ital. bor.

- * 172. **Sphærella calycicola** Pass. in Erb. Critt. It. Ser. II, n. 1462. — Peritheciis solitariis vel gregariis, subglobosis, atris; ascis ovato-piriformibus, apice rotundatis, basi brevissime abrupteque stipita-

tis, 37-38 \approx 22; sporidiis triserialibus, oblongo-spathulatis, prope medium septatis, non constrictis, hyalinis, 20 \approx 5.

Hab. ad dentes calycinis aridos Trifolii angustifolii prope Parma Ital. bor. (PASSERINI).

* 176. **Sphærella xanthicola** Cooke et Harkn. in Grevillea XIV, p. 8. 6454

— Peritheciis punctiformibus, prominulis, atris, in maculas ellipticas congestis, initio epidermide tenui velatis; ascis obclavatis, sessilibus, octosporis; sporidiis ellipticis, uniseptatis, vix constrictis, utrinque rotundatis, hyalinis, 12-15 \approx 5-6.

Hab. in caulibus Xanthii in California (HARKNESS).

178. **Sphærella nebulosa** (Pers.) Sacc. Syll. I, pag. 515. *var.* **Hieracii** 1996

Sacc. et Briard in Rev. Myc. 1885. — Peritheciis numerosis, minutis, $\frac{1}{7}$ - $\frac{1}{6}$ mm. diam., in maculis griseis sparsis vel gregariis; ostiolis prominulis; ascis sessilibus, octosporis, 40-52 \approx 10-12; sporidiis oblongis, subclavæformibus, apice parum attenuatis, uniseptatis, loculo superiore majore, 16-20 \approx 4-4,5, hyalinis.

Hab. in caulibus siccis Hieracii, Troyes Galliæ (BRIARD). —

Var. **Scrophulariæ** Sacc. et Briard in Revue Myc. 1885; ascis cylindraceo-clavatis, breviter stipitatis, octosporis, 40-48 \approx 8-10; sporidiis distichis, oblongo-fusiformibus, obtusiusculis, 1-septatis, loculis inæqualibus, superiore majore, 12-15 \approx 4,4-5, minute guttulatis, hyalinis. In caulibus exsiccatis Scrophulariæ aquaticæ, Troyes Galliæ (BRIARD). — *Var.* **Euphorbiæ** Sacc. et Briard in Revue Mycol. 1885; ascis oblongis, subirregularibus, medio inflatis, sessilibus, octosporis, 36-40 \approx 10-12; sporidiis stipatis, 1-septatis loculo superiore crassiore, obtuso, 13-14 \approx 4-5, hyalinis. In ramulis Euphorbiæ palustris, Troyes Galliæ (BRIARD).

* 182. **Sphærella baptisiæcola** (Cooke) Berl. et Vogl. *Sphæria Ba-* 6455

ptisiæcola Cooke in Grevillea XIII, p. 110. — Tecta, punctiformis, caulicola; peritheciis tenuibus, minimis, vix prominulis, tectis; ascis clavatis; sporidiis biserialibus, sublanceolatis, uniseptatis, hyalinis, 15 \approx 3,5.

Hab. in Baptisia leucantha in Car. austr.

* 188. **Sphærella pachypleuri** Fuck. in Heuglin Reisen Nordpol. 6456

vol. III, et Oudemans Contr. Flor. Myc. Now. Seml. p. 6, tab. II, fig. 2. — Peritheciis gregariis sparsisve, minutis, aterrimis, semiliberis, e basi globosa antice obtuse conicis, ostiolis demum perforatis; ascis fasciculatis, oblongis, sessilibus, 8-sporis, 52 \approx 10; sporidiis distichis, oblongo-subclavatis, rectis, inæqualiter didymis, loculis guttulatis, hyalinis, 16 \approx 4; spermatis inter ascos in spo-

rophoris brevioribus ortis, anguste fusiformibus, curvatis, 2-4-guttulatis seu obscure 2-3-septatis, antice abrupte ciliatis, cilio spermatii dimidiam partem superante, 24 \approx 2.

Hab. in Pachypleuro alpino exsiccato in insula Nowaja Semlja.

- * 191. **Sphærella brionnensis** Sacc. et Malbr. Fung. Gall. Ser. V, n. 2159. 6
— Peritheciis in foliis arescendo expallentibus, subsparsis, sæpius epiphyllis, punctiformibus, globulosis, papillulatis, initio epidermide tectis, nigris; ascis tereti-fusoideis, subsessilibus, aparaphysatis, 35-45 \approx 6-7, octosporis; sporidiis oblongo-fusoideis, subrectis, 15-18 \approx 4-5, 4-guttulatis, medio dein septatis, non v. vix constrictis hyalinis.

Hab. in foliis arescentibus Angelicæ silvestris, Brionne, Eure Galliæ.

- * 199. **Sphærella Papaveris** Fuck. in Heuglin Reisen Nordpol. vol. III 6
et Oudem. Contr. Fl. Myc. Now. Seml. p. 6, tab. II, f. 2. — Peritheciis in foliorum nigrescentium pagina superiore et inferiore gregariis, et fere foliorum totam superficiem occupantibus, minutissimis, atterrims, conicis; ascis fasciculatis, oblongis, 8-sporis, 56 \approx 24; sporidiis conglobatis, oblongo-clavatis, utrinque obtusis, rectis, inæqualiter didymis, 22 \approx 8-10, hyalinis.

Hab. in foliis exsiccatibus Papaveris nudicaulis in insula Nowaja Semlja.

- * 203. **Sphærella polyspora** (Johans.) Berl. et Vogl. *Mycosphærella* 6
polyspora Johans. Svamp. fran. Island. p. 164, tab. XXIX, fig. 7.
— Peritheciis sparsis vel gregariis, globoso-conoideis, erumpentibus, atris, 80-120 μ . diam.; ascis, aparaphysatis, ovoideis sæpe inæquilateralibus, sessilibus, 16-sporis, 36-44 \approx 13-18; sporidiis conglobatis, ovato-clavulatis, utrinque rotundatis, medio vel prope medium septatis, guttulatis, rectis, hyalinis, 11-14 \approx 4-6, septo vix constrictis.

Hab. in pedunculis et fructibus aridis Azaleæ procumbentis Eskifjördur Islandiæ orient. — Novi generis typus videtur.

- * 204. **Sphærella incisa** Ell. et M. in Journ. of Myc. 1885, pag. 99. 6
— Peritheciis membranaceis, gregariis, globosis vel depresso-globosis, $\frac{1}{4}$ mm. diam., aparaphysatis, epidermide nigrefacta tectis; sporidiis fusiformibus, utrinque appendicula acuta præditis, endochromate distincte bipartito, pallide luteis, 40-50 \approx 3-4.

Hab. in petiolis emortuis Sabalis serrulatæ, New Florida Amer. bor.

- *230. **Sphærella parallelogramma** Rehm in Hedwigia 1885, p. 239. 6461
 — Peritheciis minutissimis, globosis, atris, gregarie confertis, in maculis epidermidis parallelogrammiformibus, griseis vel griseo-atris, 2-5 mm. long., 1-2 mm. lat., secundum longitudinem culmorum conspicuis, sessilibus, primitus immersis, glabris, parenchymatice fusce contextis; ascis pseudo-piriformibus, latis, basi sessilibus, crassis, 8-sporis, 25-27 \approx 9; sporidiis polystichis, fusiformibus, acutis, rectis, 2-cellularibus, cellulis æqualibus, sæpe binucleatis, hyalinis, 10-12 \approx 2; paraphysibus nullis.
Hab. ad culmos siccos gramineos prope glaciem æternam montis Ortler prope Sulden in Tirolia (Dr. Rehm).
- *231. **Sphærella perexigua** Karst. — Sacc. Syll. I, pag. 528, var. **minima** (Johans.) Berl. et Vogl. *Mycosphærella perexigua* var. *minima* Johans. Svamp. fran. Island pag. 166. — Omnibus partibus minor; peritheciis subgregariis, strias formantibus, 270-370 μ . diam.; ascis 20-27 \approx 10-14; sporidiis conglobatis, rectis vel curvulis, ad septum non constrictis, 11-16 \approx 2-3,5, (raro 20 μ . longis). 2049
Hab. in foliis et culmis Scirpi cæspitosi, Hofios Islandiæ borealis.
- *236. **Sphærella Orchidearum** Karst. Rev. atque Synop. Ascom. fenn. 6462
 p. 68. — Peritheciis sparsis vel gregariis, hinc inde aggregatis, epidermide tectis, lentiformibus, atris nitentibus, sæpe basi hyphis fuliginis, radiantibus obsitis, demum poro pertusis, 2 mm. circ. lat.; ascis cylindraceo-clavatis; sporidiis ignotis; paraphysibus nullis.
Hab. in caulibus aridis *Gymnadeniæ conopseæ* in Mustiala.
- *237. **Sphærella bacillifera** Karst. in Hedw. 1883, n. 12, p. 31. — Rev. 6463
 atque Synop. Ascom. fenn. p. 68. — Peritheciis sparsis vel subgregariis, subcutaneis, subsphæroideis, glabris, ostiolo brevi, erumpente, atris, exiguis; ascis elongato-clavatis, curvatis, apice rotundatis, vix stipitatis, 80-105 \approx 20-24; sporidiis octonis, tristichis, bacillari-fusoideis, curvulis, uniseptatis, chlorino-hyalinis, 45-60 \approx 6.
Hab. in foliis *Scheuchzeriæ palustris* emortuis in parœcia Tammela Fenniæ.
- *239. **Sphærella caricicola** Fuck. — Winter in Hedwigia 1886, p. 19, 1642
Læstadia caricicola Sacc. Syll. I, n. 430. — Asci 40-44 \approx 10-11; sporidia bicellularia, utrinque rotundata, ad septum constricta, hyalina, 14 \approx 4.
- *240. **Sphærella platytheca** Karst. in Hedw. 1883, n. 12, p. 31. — Rev. 6464
 atque Synop. Ascom. fenn. p. 66. — Peritheciis?; ascis sessilibus v. brevissime stipitatis, inferne inæqualiter saccato-inflatis (ut in *Sph.*

Tassiana), 65-80 \approx 20-28; sporidiis 8: nis, ovoideo-oblongatis, medio vel paullo extra medium uniseptatis, ad septum vix vel leviter constrictis, vulgo guttulatis, 22-35 \approx 7-10.

Hab. in foliis emortuis Tiliæ platyphyllæ in Mustiala. — Forte cum *Sphærella Tassiana* conjungenda.

- *241. **Sphærella exitialis** Mori Malatt. del Frum. (Giorn. Bot. Ital. 1886, n. 1, p. 37). — Peritheciis amphigenis, sparsis, globulosis, ostiolo aliquantulum magno, primum epidermide tectis dein erumpentibus, 75-90 μ . diam.: ascis cylindræis, leviter incurvatis, sæpe in parte inferiore ventricosis, breviter pedicellatis, 45-54 \approx 16-20; sporidiis subdistichis, hyalinis, incoloribus vel colore luteolo-pallido, cylindrico-ovoidalibus, uniseptatis, 14-16 \approx 5-6.

Hab. in foliis Tritici sativi in Italia bor.

245. **Sphærella aquilina** Fr. — Sacc. Syll. I, pag. 532. *var. infera* Karst. in Hedw. 1884, n. 1, p. 4, Rev. atque Synop. Ascom. fenn. pag. 68. — A typo recedit peritheciis hypophyllis; ascis 42-58 \approx 8-9, sporidiisque ad septum vix vel leviter constrictis, 8-12 \approx 2-4.

Hab. in frondibus Pteridis aquilinæ emortuis ad Mustiala Fennicæ.

- *246. **Sphærella Gastonis** Sacc. in Rev. Myc. 1885, p. 158. — Peritheciis velatis, punctiformibus laxè gregariis; ascis fusoides, sessilibus, 40 \approx 10; sporidiis oblongis, 1-septatis, 7-8 \approx 2-3, hyalinis.

Hab. in foliis Cocos nuciferæ in insula Tahiti.

- *249. **Sphærella Trichomanis** Cooke in Grevill. XIV, pag. 12. — Sparsa vel subcæspitosa; peritheciis semiimmersis, punctiformibus, atris, cuticulâ tenui primo tectis, punctato-pertusis; ascis clavatis, 30 \approx 5, octosporis; sporidiis cylindricis, utrinque rotundatis, uniseptatis, hyalinis, 8 \approx 2.

Hab. in frondibus vivis Trichomanis prope Samoa in Australia.

- *251. **Sphærella parasitica** Wint. in Hedw. 1886, p. 19. *Epicymatia Winteri* Kunze Fungi selecti exsicc. n. 65. — Peritheciis gregariis, minutissimis, globoso-piriformibus, vertice pertusis, tenuissime membranaceis, glabris, fuscis, 70 \approx 50-60; ascis elongato-ovoideis vel oblongis, utrinque attenuatis, sessilibus, 8-sporis, 24-32 \approx 10-12; sporidiis inordinatis, conglobatis, bacilliformibus, anguste clavatis, utrinque rotundatis, hyalinis, bicellularibus, haud constrictis, 14-18 \approx 3,5.

Hab. in Cenangio fuliginoso parasitans in Germania.

Observatio

Ad hoc genus relatæ sunt species sequentes in Sylloge sub aliis generibus militantes:

280. **Sphærella Himantia** (Pers.) Karst. Rev. p. 66, *Asterina Himantia* 2071
Syll. I, p. 761.

282. **Sphærella Oxalidis** Kirsch in Lot. 1856, 203; Berkeley et Br. 1635
Ceylon Fungi 1122, *Læstadia Oxalidis* Saccardo Sylloge Pyrenomycet. Vol. I, p. 429.

STIGMATEA Fr. — Sacc. Syll. I, p. 541.

*5. **Stigmatæa vexans** Wint. in Hedw. 1885, I. — Peritheciis in macula non determinata, ochracea vel fuscidula, epiphylla, gregariis, 6470
depresso-hemisphæricis, dimidiatis, crasse membranaceis, atris, ostiolo punctiformi, sed distincto pertusis, 180-230 \approx 96-105; ascis oblongis vel e basi ventricosa sursum parum attenuatis, membrana crassa præditis, sessilibus, 8-sporis, 58-78 \approx 24-32; sporidiis conglobatis, didymis, olivaceis, cellula superiori fere globosa, 12-14 \approx 12, cellula inferiori obconica, 9-9,5 \approx 7-9; paraphysibus non distinctis, mucilagineis.

Hab. ad folia viva Brayeræ anthelminthicæ, Abyssinia (КЕЕК).

*12. **Stigmatæa Armandi** Pat. in Rev. Myc. 1886, p. 83. — Peritheciis punctiformibus, nigris, globulosis; ascis subsessilibus, 42-45 \approx 6471
12-15; paraphysibus linearibus; sporidiis uno apice attenuatis, 12-15 \approx 3-4, hyalinis vel pallide viridulis.

Hab. in petiolis et foliis Clematidis Armandi, Thibet Orient. (AB. DAVID).

*14. **Stigmatæa mucosa** Pat. in Rev. Myc. 1886, pag. 82. — Peritheciis minutis, primum epidermide tectis, demum, ea rupta, prominulis, nigris, rotundis, vertice poro albo pertusis; ascis sessilibus, octosporis, 35-45 \approx 12-15; sporidiis ovoideis, hyalinis, continuis, 12-15 \approx 4-5; pseudo-paraphysibus gelatinosis, ramosis, massa mucosa ascos obvallantibus. 6472

Hab. in foliis emortuis Agrostidis albæ, Thibet Oriental. (AB. DAVID).

DIDYMELLA Sacc. Syll. I, pag. 545.

*6. **Didymella Fuchsiae** Cooke et Hark. in Grevillea XIV, pag. 9. — 6473

Sparsa vel subgregaria; peritheciis globoso-depressis, atris, epidermide tectis, ostiolo conico, prominulo emergente; ascis cylindrico-clavatis, octosporis; sporidiis biserialibus, rectis curvulisve, uniseptatis, nec constrictis, binucleatis, hyalinis, $15 \approx 5$.

Hab. in caule *Fuchsiae* in California (HARKNESS).

- * 13. *Didymella Salicis* Grove in litt. — Peritheciis peridermio infossis, sparsis v. binis ternisque adnatis v. gregariis, globulosis, dein subdepressis, atris, primo epidermide pustulatum tumida tectis dein ea lacerata emergentibus et supra evanida nudis, papillatis, $\frac{1}{3}$ mm. diam.; ascis clavatis, interdum medio inflatis, vix infra attenuatis, subsessilibus, apice rotundatis, octosporis, $60-70 \approx 11-13 \mu$. d.; paraphysibus non visis; sporidiis distichis, oblongis, curvulis, utrinque obtusis, granulosis ideoque levissime subluteolis, continuis, subinde 2-3-guttulatis, dein senio uniseptatis et medio subconstrictis, $16-20 \approx 5$.

Hab. in ramis *Salicis*, Sutton Coldfield, prope Birmingham Britanniae.

- * 25. *Didymella nigrificans* Karst. in Hedw. 1884, n. 1, p. 3. — Rev. atque Synop. Ascom. fenn. pag. 60. — Peritheciis densissime congestis, cuticula nigrificata, demum fissa tectis, subsphæroideis, basi cupulato-collapsis, pertusis, atris, glabris, circ. 2 mm. diam.; ascis cylindræis, stipitatis, pseudo-paraphysatis, $70-100 \approx 6$; sporidiis octonis, monostichis, oblongatis vel ellipsoideis, 1-rarissime 3-septatis, eguttulatis, chlorino-hyalinis, nitido strato mucoso obvolutis, $11-15 \approx 4-5$.

Hab. in ramis emortuis *Rosarum* in Mustiala Fenniae.

- * 26. *Didymella Rauii* (Ell. et Ev.) Berl. et Vogl. *Sphaeria Rauii* Ell. et Ev. in Torr. Bot. Club. 1883, p. 90. — Peritheciis sparsis vel 2-3 in cortice interiore coalitis, epidermide laxè tectis, demum eam ostiolo papillæformi perforantibus; ascis $30-35 \approx 6-7$; paraphysibus gracilibus; sporidiis distichis, oblongo-fusoideis, 1-septato-constrictis, leniter curvulis, utrinque appendicula minuta præditis, luteolis, binucleatis, $7-8 \approx 5$.

Hab. in ramis emortuis *Rosæ* cultæ, Bethlehem Amer. bor. (E. A. RAU).

- * 29. *Didymella Melonis* Pass. in Erb. Critt. Ital. Ser. II, n. 1465. — Peritheciis sparsis, mycelio haud perspicuo, subglobosis, ostiolo acuto; ascis cylindrico-clavatis, 8-sporis, $62-80 \approx 10-12$; sporidiis distichis, constrictis, hyalinis, loculis biguttulatis $17,5 \approx 1,5$, paraphysibus brevioribus, paucis.

Hab. ad caules, ramos petiolosque aridos Cucumeris Melonis prope Parma Italiæ bor.

- *31. **Didymella Megarrhizæ** Cooke et Hark. in Grevillea XIV, p. 9. 6178
— Gregaria; peritheciis subconicis, atris, parvulis, nitidis, initio velatis, demum ostiolo acuto erumpentibus; ascis cylindrico-clavatis, octosporis; sporidiis ellipticis, uniseptatis, medio constrictis, rectis, hyalinis, 16-18 \approx 7.

Hab. in caule Megarrhizæ in California (HARKNESS).

- *32. **Didymella Cookeana** Berl. et Vogl. *Sphæria Megarrhizæ* Cooke 6479
et Harkness in Grevillea XIII, p. 18. — Sparsa, tecta; peritheciis subglobosis, mox depressis, atris, ostiolo papillato; ascis subclavatis; sporidiis biserialibus, ellipticis, uniseptatis, vix constrictis, hyalinis, pallide luteolis, 12-14 \approx 6.

Hab. in Megarrhiza californica in California (HARKNESS). — «An a præcedente vere diversa?».

- *36. **Didymella maculiformis** Winter in Hedw. 1884, pag. 169. — 6480
Peritheciis amphigenis, densissime stipatis, greges maculiformes, irregulares, magnos, sæpe confluentes, usque 6 cm. latos formantibus, immersis, punctiformibus, e basi globosa, brevissime conicis, poro simplici pertusis, epidermide circa verticem vix prominentem nigrefacta tectis; sporidiis distichis, cylindræis, inæqualiter didymis, ad septum parum constrictis, hyalinis, 26-30 \approx 5-6; ascis oblongis, brevissime stipitatis, sursum parum attenuatis, 8-sporis, 78-82 \approx 16-17, paraphysibus conglutinatis.

Hab. in foliis emortuis Proteæ grandifloræ prope Capetoum in Promontorio Bonæ Spei.

39. **Didymella Trifolii** (Fuck.) Sacc. Syll. I, pag. 554, *Didymosphæria Trifolii* Winter in Hedwigia 1886, pag. 24. — Sporidia 17-20 \approx 5-6.

41. **Didymella superflua** (Fuck.) Sacc. Syll. I, pag. 555, var. **Humuli** 2166
Karst. Symb. ad Myc. Fenn. XVI (1884), pag. 150. — Rev. atque Synop. Ascom. fenn. pag. 61. — Peritheciis gregariis, primum epidermide tectis, dein denudatis, ut plurimum cupulato-collapsis; ascis cylindræis, sessilibus, 55-60 \approx 8-10; sporidiis 9-15 \approx 4-5.

Hab. ad caules exsiccatos Humuli Lupuli in Mustiala Fennicæ. — Status pycnidicus *Phoma sarmentella*.

- *41. **Didymella inconspicua** Johans. Svamp. fran. Island. p. 167, tab. 6481
XXIX, fig. 8. — Peritheciis sparsis, parenchymate innatis, epidermide leviter nigrefacta tectis, ostiolo rotundo pertusis, atris, glabris, minutis, 95-135 μ . diam.; ascis octosporis, paraphysatis,

ovoideo-elongatis, sæpe inæquilateralibus, 55-65 \approx 18-20; sporidiis distichis vel conglobatis, ovoideo-elongatis, vel cuneato-elongatis, utrinque rotundatis, prope basim 1-septatis, non constrictis, guttulatis, rectis, hyalinis vel chlorino-hyalinis, 20-23 \approx 7-9, loculo majore 15-18 μ . long., minore 4,5-6 μ . long.

Hab. in foliis emortuis Saxifragæ oppositifoliæ, Eskifjördu Islandiæ bor.

- * 42. **Didymella Lupini** (Cooke et Hark.) Berl. et Vogl. *Sphæria Lu-* 64
pini Cooke et Hark. in Grevillea XIII, p. 18. — Sparsa, punctiformis; peritheciis tectis, globoso-depressis, leniter papillatis; ascis clavatis; sporidiis ellipticis, uniseptatis, hyalino-flaveolis (immaturis?); cytoplasmate granuloso, 15-17 \approx 6-7.

Hab. in caule Lupini in California (HARKNESS).

- * 46. **Didymella nivalis** (Fuck.) Berl. et Vogl. *Sphæria nivalis* Fuck. 64
in Die zweite deutsch. Nordpolarf. pag. 93, tab. I, fig. 5. — Peritheciis sub foliorum cauliumque aridorum epidermide albescente nidulantibus, gregariis, minutis, globosis, aterrimis, ostiolo atro, acuto, prominulo; ascis oblongo-ovatis, utrinque attenuatis, tunica crassa præditis, 8-sporis, 94 \approx 20; sporidiis conglobatis subdistichisve, oblongis, inæqualiter didymis, utrinque obtusis, ad septum parum constrictis, hyalinis, 20 \approx 8.

Hab. in caulibus folisque exsiccatis Epilobii latifolii, Kaiser-Franz-Josephs-Fjord, in Groenlandia.

- * 49. **Didymella Chamæjasmes** (Fuck.) Berl. et Vogl. *Sphæria Cha-* 64
mæjasmes Fuck. in Reis. nach. Nordpolarf. III, et Oudem. Contr. Fl. Myc. Now. Seml. p. 152, tab. II, fig. 5. — Peritheciis gregariis, raro sparsis, sub epidermide nidulantibus, demum subliferis, minutis, atris, e basi globosa antice conicis, acutis; ascis oblongis, sessilibus, 8-sporis, 104 \approx 12; sporidiis oblique submonostichis, oblongis, rectis, utrinque obtusis, æqualiter didymis et ad septum facile diffractis, 16 \approx 6, hyalinis.

Hab. in caulibus exsiccatis Androsaces Chamæjasmes, Nowaja Semlja.

- * 56. **Didymella arctica** (Fuck.) Berl. et Vogl. *Sphæria arctica* Fuck. 64
Die 2^e Deutsche Nordpolarf. II, 94, et Oudem. Contr. Fl. Myc. Now. Seml. p. 152, tab. III, fig. 4. — Peritheciis in macula cinerescente gregariis seu lineari-dispositis, erumpentibus, globoso-conicis, minutis, aterrimis, demum perforatis; ascis fasciculatis, oblongis, contortis, sessilibus, tunica crassa præditis, 72 \approx 17 octo-sporis; sporidiis imbricato-distichis, oblongis, utrinque parum at-

tenuatis, rectis, uniseptatis, ad septum constrictis, oculis inæqualibus, biguttulatis, $24 \approx 8$, hyalinis.

Hab. in foliis exsiccatis Poæ alpinæ, Nowaja Semlja.

- * 70. **Didymella sphinctrinoides** (Zwackh.) Berl. et Vogl. *Didymosphaeria sphinctrinoides* Winter in Hedwigia 1886, pag. 26, *Endococcus sphinctrinoides* Zwackh. in Flora 1864, p. 88. — Peritheciis ignotis; ascis cylindraceutis, angustis, 6-8-sporis, $74-78 \approx 10-12$; sporidiis bicellularibus, hyalinis, $18-22 \approx 6-7$; paraphysibus filiformibus. 6486

Hab. parasitice in Lecanora subfusca in Germania. — *Var. Immersæ* (Arnold) Berl. et Vogl. *Endococcus sphinctrinoides* var. *Immersæ* Arn. Lichen. Fragm. XVI, p. 25, tab. II, fig. 14 in Flora 1874, *Didymosphaeria sphinctrinoides* var. *Immersæ* Winter in Hedw. 1886, pag. 26; peritheciis immersis, semiemersis, minutis, globosis, atris; sporidiis oblongis, bicellularibus, hyalinis, $18 \approx 6$; ascis cylindraceutis, octosporis; paraphysibus distinctis, capillaribus. In thallo Lecidellæ immersæ in Germania.

- * 71. **Didymella Ulothii** (Körber) Berl. et Vogl. *Didymosphaeria Ulothii* Winter in Hedw. 1886, p. 26, *Cercidospora Ulothii* Körber, Parerga p. 466. — Peritheciis minutissimis, sparsis vel subgregariis, thallo omnino immersis, globosis, vertice tantum pertuso, demum depresso, parum prominulis, atris; ascis cylindricis, deorsum parum attenuatis, 4-8-sporis, $70-80 \approx 10$; sporidiis oblique monostichis, fusoides, utrinque acutis, bicellularibus, hyalinis, $16-20 \approx 5$; paraphysibus numerosis, filiformibus. 6487

Hab. in thallo apotheciisque Placodii saxicoli in Germania.

- * 72. **Didymella epipolytropæ** (Mudd.) Berl. et Vogl. *Didymosphaeria epipolytropæ* Winter in Hedw. 1886, pag. 26, *Thelidium epipolytropum* Mudd. Manual of Brit. Lichen. pag. 298, *Cercidospora epipolytropæ* Arnold in Flora 1874, pag. 154. — Peritheciis sparsis, punctiformibus, minutissimis, immersis vel semiemersis, globosis, atris, submicroscopio viridi-atris, vertice subdepresso et perforato; ascis breves cylindraceutes s. oblongo-clavatis, 4-8-sporis; paraphysibus distinctis, tenuibus, filiformibus, subramosis; sporidiis elongato-oblongis, fere fusiformibus bicellularibus, hyalinis, $15-18 \approx 4-5 \mu$ diam. 6488

Hab. in thallo discoque apotheciorum Lecanoræ polytropæ in Germania.

GNOMONIA Ces. et De Not. — Sacc. Syll. I, pag. 561.

- * 4. **Gnomonia euphorbiacea** Sacc. et Briard in Rev. Myc. 1885. — Peritheciis sparsis, epidermide tectis, sphaeroideis, basi cupuliformi vel excavata, $\frac{1}{5}$ – $\frac{1}{4}$ mm. diam.; ostiolis punctiformibus, epidermidem perforantibus eique adherentibus; ascis oblongis, subfusiformibus, breviter stipitatis, octosporis, 72–88 \approx 12; sporidiis monostichis vel centro distichis, ovato-oblongis, obtusis, 1-septato-constrictis, biguttulatis, rectis vel leniter curvulis, 14–16 \approx 6, hyalinis.

Hab. in ramulis emortuis Euphorbiæ palustris, Troyes Galliæ (BRIARD).

- * 5. **Gnomonia tithymalina** Sacc. et Briard in Rev. Myc. 1885. — Peritheciis numerosis, plus minusve gregariis, sub epidermide nidulantibus, sphaeroideis, basi cupulata vel excavata, $\frac{1}{3}$ – $\frac{1}{2}$ mm. diam.; ostiolis obtusis, epidermidem leniter nigrefactam perforantibus; ascis cylindraceo-fusiformibus, sessilibus, 40–44 \approx 8–10, octosporis; sporidiis oblique distichis, oblongis, obtusis, 1-septato-constrictis, 4-guttulatis, rectis vel vix curvulis, 13–15 \approx 4–5, hyalinis.

Hab. in caulibus emortuis Euphorbiæ palustris, Troyes (BRIARD).

- * 10. **Gnomonia petiophila** (Peck) Berl. et Vogl. *Sphaeria petiophila* Peck in 35 Rep. St. Mus. Bot. 1884, pag. 144. — Peritheciis minutis, sparsis primum epidermide tectis, dein, ea perfossa, prominulis, ostiolo papillato vel breviter rostrato instructis, compresso-globosis, nigris; ascis subcylindraceis, angustis, 40–45; sporidiis anguste fusiformibus, utrinque acutis, distichis, 12–15 \approx 2, quandoque 3–4-nucleolatis.

Hab. in petiolis emortuis Aceris spicati in montibus Hellderberg Amer. bor.

- * 19. **Gnomonia australis** Winter Contr. Fl. Myc. Lus. V, p. 14. — Peritheciis dense sparsis, hypophyllis, immersis, demum erumpentibus, globosis, membranaceis, fusco-atris, 120–200 μ . diam., rostro crasso, cylindrico, apice sæpe parum compresso et incrassato, usque 180 \approx 20, instructis; ascis fusoideo-elongatis, 8-sporis, 56–60 \approx 8–9; sporidiis oblongis, utrinque parum attenuatis et rotundatis, inæquilateralibus, bicellularibus, 4-guttulatis, hyalinis, ad septum constrictis, 14–16 \approx 4–4,3.

Hab. ad Apolloniæ canariensis folia arida, Coimbra Lusitania (MOLLER). — Var. **Lauri** Wint. l. c.: peritheciis gregariis in macula indeterminata, obscuriore hypophylla; ascis deorsum in

pedicellum brevem attenuatis, usque 78 μ . longis; sporidiis interdum usque 18 μ . longis. Ad folia arida Lauri nobilis prope Coimbra Lusitaniæ.

- *20. **Gnomonia Sassafras** Ell. et Ev. in Torr. bot. Club. 1883, 6493
pag. 98. — Peritheciis erumpentibus, hemisphæricis, circiter 200 μ . diam., in superficie inferiore foliorum sparsis; ostioliis filiformibus, 200-250 μ . longis, contextu fibroso, sursum subhyalino, sæpe parum curvatis; ascis lanceolatis, curvis, apapophysatis; sporidiis filiformibus, dilutissime flavidis, indistincte multinucleatis, 35-40 \approx 1,7.

Hab. in foliis emortuis *Sassafras officinalis*, Fairfield, Ohio Americæ borealis (W. A. KELLERMANN). — «An *Linospora* ?».

- *29. **Gnomonia perversa** Rehm Ascomyc. fasc. XVI, p. 15. — Peri- 6494
theciis minutissimis, sparsis, parenchymate foliorum immersis, nudo oculo vix punctiformiter paginam superiorem foliorum inquinantibus, conspicuis eamque non elevantibus, haud rostratis, vertice punctiformi, atris, parenchymatice fusce contextis; ascis fusiformibus, in stipitem tenerum elongatis, 8-sporis, 60 \approx 9; sporidiis haud acutatis, bicellularibus, utraque cellula binucleata, hyalinis, 12 \approx 3,5; paraphysibus nullis.

Hab. ad folia putrida *Alni glutinosæ* prope Königstein Saxonie (W. KRIEGER)

PHARCIDIA Körber Parerga Lichenol. p. 469 (Ety. *pharcis* ruga). — Perithecia sparsa vel leniter gregaria, semiimmersa vel demum emergentia, atra, punctiformia, minuta, globosa vel globoso-conoidea, poro pertusa. Asci 4-8-spori, oblongi vel fusoido-clavati. Sporidia cuneata, ovoidea vel fusiformia, 1-3-septata, hyalina.

1. **Pharcidia Schœreri** (Mass.) Winter in Hedwigia 1886, pag. 11. 2232
Sacc. Syll. I, pag. 571, *Epicymatia Schœreri* Mass. Syll. I, pag. 571. — Perithecia sparsa, primo plus minusve immersa, demum emergentia, globosa, verticem versus parum attenuata, poro pertusa, membranacea, fusca, minutissima, punctiformia; ascii oblongi, utrinque subattenuati, 8-spori, 30-40 \approx 12; sporidia conglobata, oblonga, subclavata v. bacillaria, 1-3-septata, hyalina, 12-14 \approx 3-3,5; paraphyses mucosæ, indistinctæ. — *Var. Croceæ* Arnold (in *Solorina crocea*): sporidiis 12 \approx 2-3.
2. **Pharcidia parvipuncta** (Stein) Wint. in Hedw. 1886, p. 14, *Sage-* 6495
dia parvipuncta Stein Flechten in Krypt. Flora von Schlesien

II, 2, pag. 339. — Peritheciis minutissimis, sessilibus, hemisphæricis v. conoideis, atris, nitidis, molliusculis, 30 μ . diam.; ascis subfusiformi-clavatis, membrana crassa præditis, 8-sporis; sporidiis fusiformibus, abrupte acutatis, 2-4 cellularibus, 12-18 \approx 4-5; paraphysibus mucosis, parum distinctis.

Hab. in thallo *Thelidii diaboli* in Silesia Germ.

2. **Pharcidia constrictella** Müller in Flora 1874, p. 350 et Wint. in Hedw. 1886, pag. 12. — Peritheciis fere totis immersis, globosis, sursum parum attenuatis, thalli superficie a vertice tantum pertusis, $\frac{1}{3}$ mm. latis, tenuissime membranaceis, fusco-atris; ascis cylindricis, obtusis, 4-sporis, circ. 75 \approx 12; sporidiis monostichis, elliptico-oblongis, utrinque rotundatis, medio distincte constrictis, 18-22 \approx 8-9.

Hab. in thallo *Psoromatis fulgentis* var. *alpinæ* in Germania.

3. **Pharcidia Arthoniæ** (Arnold) Wint. in Hedw. 1886, p. 12, *Sphæria Arthoniæ* Arnold Lichenol. Ausfl. VIII, p. 304. — Peritheciis sparsis, fere omnino emersis, minutissimis, globosis, membranaceis, fuscis; ascis e basi latiori sursum oblongis, sessilibus, 8-sporis, 40-45 \approx 19; sporidiis conglobatis, cylindricis, utrinque rotundatis, 1-3-septatis, hyalinis, rectis, 18-23 \approx 5; paraphysibus nullis.

Hab. parasitica in thallo *Arthoniæ astroideæ* in Germania.

4. **Pharcidia Aspiciliæ** (Lahm) Wint. in Hedw. 1886, p. 13, *Arthopyrenia Aspiciliæ* Lahm in Körber, Parerga, p. 388. — Peritheciis confertis, minutissimis, hemisphærico-conoideis, atris, subnitidis, ostiolo indistincto, immersis, demum erumpentibus; sporidiis 8: nis in ascis fusiformi-clavatis, oblongis, bicellularibus, demum guttulis 4 præditis (4-cellularibus?), diam. 3-4plo longioribus, hyalinis.

Hab. in thallo *Aspiciliæ calcareæ* in Germania.

5. **Pharcidia Punctillum** (Arnold) Wint. in Hedw. 1886, pag. 12, *Arthopyrenia punctillum* Arnold Lichenol. Ausfl. XI, pag. 22. — Peritheciis sparsis, minutissimis, punctiformibus, hemisphærico-emersis, membranaceis, atro-fuscis; ascis e basi latiori, ventricosa sursum attenuatis, 8-sporis, 30-40 \approx 14-16; sporidiis conglobatis, oblongo-clavatis, bicellularibus, hyalinis, medio haud vel perparum constrictis, utrinque rotundatis, 14-18 \approx 3,5-5.

Hab. in thallo *Biatorinæ cyrtellæ* in Germania.

6. **Pharcidia dispersa** (Lahm) Wint. in Hedw. 1886, pag. 13, *Artho-*

pyrenia dispersa Lahm in Körber Parerga pag. 388. — Peritheciis sparsis, minutissimis, globosis vel hemisphæricis, atris opacis, ostiolo parum distincto, subverruciformi; sporidiis 8: nis in ascis cylindrico-clavatis, breviter stipitatis, subsoleæformibus, bicellularibus, plerumque cellula superiori latiori, hyalinis, 13-15 \approx 4-5.

Hab. parasitica in thallo *Biatoræ rupestris*, *Callopi-smatis ferruginei* et *Lecanoræ subfuscae* in Germania.

7. **Pharcidia Lichenum** Arnold Lichenol. Ausfl. in Tirol. VIII, p. 302 6501
et Wint. in Hedw. 1886, p. 11. — Peritheciis sparsis vel gregariis, plus minusve immersis vel demum emergentibus, imo interdum fere superficialibus, globosis, poro simplici pertusis, minutissimis, membranaceis, fuscis; ascis oblongis, ventricosis utrinque parum attenuatis, substipitatis, 8-sporis, 33-12 \approx 12-14; sporidiis conglobatis, clavatis vel cuneatis, vertice rotundatis, bicellularibus, non constrictis, hyalinis, 12-15 \approx 3,5-4; paraphysisibus mucosis.

Hab. parasitica in thallo, rarius in fructibus *Lichenum* variorum in Germania.

8. **Pharcidia hygrophila** (Arnold) Wint. in Hedw. 1886, p. 14, *Endococcus hygrophilus* Arnold in Flora 1871, p. 147. — Peritheciis atris, subglobosis, supra thalli granulos dispersis, minimis; ascis elongato-ellipticis, sursum parum, deorsum magis stipitifor- 6502
mi attenuatis; sporidiis elliptico-oblongis, utrinque attenuatis vel in uno apice late rotundatis, sæpe inæquilateralibus, 1-septatis, 15-18 \approx 5-6, 8: nis, hyalinis, non constrictis.

Hab. in thallo *Buelliae rivularis* in Germania. — *Var.*

Berengeriana Arnold Lichenol. Ausfl. VI, pag. 1146: peritheciis sat minutis, atris, globoso-emersis, dispersis; paraphysisibus capillaribus; sporidiis 1-septatis, cum 2-4-guttulis oleosis, utroque apice plus minus cuspidatis, 22-28 \approx 5-6, 8 in ascis oblongis. In thallo *Biatoræ Berengerianæ* in Germania.

9. **Pharcidia Porocyphi** (Stein) Wint. in Hedw. 1886, p. 13, *Arthopyrenia Porocyphi* Stein Flechten in Krypt. Flora von Schlesien II, 2, pag. 343. — Peritheciis minutissimis, sessilibus, conoideis vel globosis, sine ostiolo distincto, atris, nitidis, 30 μ . diam.; ascis subfusiformibus, 8-sporis; sporidiis bicellularibus, ovoideo-ellipsoideis, cellula superiori plerumque parum majori, 6-8 \approx 2-3. 6503

Hab. in thallo *Porocyphi Cataractarum* in Silesia Germ.

10. **Pharcidia microspila** (Körber) Wint. in Hedw. 1886, p. 13, *Arthopyrenia microspila* Körber Parerga pag. 392. — Peritheciis minutissimis, primo immersis, demum emergentibus, tandem super- 6504

ficialibus, subglobosis, ostiolo papilliformi indistincto, atris, opacis, in maculis rotundatis irregularibusque, circ. 2-3 mm. latis, cinereo-atris, e mycelio fusco, breve articulado formatis, gregariis; ascis oblongis vel elongato oblongis, medio subventricosis, fere sessilibus, 8-sporis, $42-50 \approx 14$; sporidiis inordinatis, cylindrico-cuneatis, 2(rarissime 4)-cellularibus, haud constrictis, hyalinis, $15-17 \approx 4-5$.

Hab. parasitica in thallo *Graphidis scriptæ* in Germania.

11. **Pharcidia conspurcans** (Fries) Wint. in Hedw. 1886, p. 13, *Arthopyrenia conspurcans* Fries Lichen. Spitsb. p. 51. — Peritheciis, punctiformibus, semiemersis, atris; hymenio absque paraphysibus; sporidiis bicellularibus, incoloribus, utroque apice plus minus obtusis, sæpe cum 2 guttulis oleosis, $10-14 \approx 5$, 8 in ascis ventricosis. 6505

Hab. parasitica in thallo *Dimelaenæ nimbosæ* in Germania.

12. **Pharcidia Badiæ** (Arnold) Winter in Hedw. 1886, p. 12, *Arthopyrenia badiæ* Arnold Lichenol. Ausf. in Tirol. X, p. 13. — Peritheciis majusculis, hemisphæricis, emersis, non pertusis, atris; sporidiis elongatis, bicellularibus, hinc inde cum 4 guttulis oleosis, hyalinis, $15-16 \approx 4-5$, 8 in asco; paraphysibus nullis. 6506

Hab. in thallo *Lecanoræ badiæ* in Germania.

13. **Pharcidia Tabacinæ** Arnold in Flora 1881, p. 176 et Wint. in Hedw. 1886, pag. 12. — Peritheciis punctiformibus, semiemersis, atris, hymenio absque paraphysibus; sporidiis incoloribus, elongato-oblongis, 1-septatis, regulariter 4-guttulatis, $10-12 \approx 3$, 8 in asco, medio inflatis. 6507

Hab. in thallo *Psoræ tabacinæ* in Germania.

14. **Pharcidia Ahlesiana** (Hepp.) Wint. in Hedw. 1886, p. 14. — *Sagedia Ahlesiana* Hepp in Zwackh, Exsicc. 314, *Endococcus Ahlesianus* Zwackh in Flora 1862, pag. 572. — Peritheciis et ascis ignotis; sporidiis 8: nis, bicellularibus, interdum subcurvatis, semper incoloribus, utrinque subobtusis, $9-14 \approx 3-4$. 6508

Hab. in *Parmelia demissa* parasitica in Germania.

LIZONIA Ces. et De Not. — Sacc. Syll. I, p. 574.

- *2. **Lizonia bertioides** Sacc. et Berl. in Rev. Myc. 1885, tab. LIV, fig. 5. — Peritheciis 2-5 acervulatis, stromate plano, rufescente insidentibus, sphaeroideis, rugosiusculis, atris; ascis amplis, ovatis, crasse tunicatis, stipitatis, paraphysibus longioribus cinctis, $50-60 \approx 20-25$, octosporis; sporidiis inordinate tristichis, oblongo-ovoi-

deis, guttuligeris, demum didymis, 20 \approx 8, pallide luteis dein fuscellis.

Hab. in pagina superiore foliorum Compositæ corymbiferae cujusdam, Santos Brasil. — Sociis *Hypocreacea* quadam scoleco-spora (asci 70 \approx 14; sp. 50-55 \approx 3), *Polystigmia* (sp. 40-50 \approx 2 utrinque hamatæ), *Entomosporio*, quorum conceptacula omnino latent, et *Helotio* amœne aureo, immaturo.

- *4. **Lizonia abscondita** Johan. Svamp. fran Island. pag. 167, tab. 6510
XXIX, fig. 9. — Peritheciis superficialibus, gregariis vel subsparsis, in nervis immersis foliorum insidentibus, subcoriaceis, atris, glabris, filis fuliginosis a basi prodeuntibus, plerumque ovoideis, minutis, 130-140 \approx 88-100; ascis cylindræco-clavatis, vix vel brevissime pedicellatis, octosporis, paraphysibus nullis, 54-70 \approx 16-20; sporidiis distichis, pallide olivaceis, ovoideis, medio vel prope medium septatis et constrictis, membrana tenuissima, 12-17 \approx 7-10.

Hab. in pagina super. foliorum exsiccatorum Dryadis octopetalæ, Eskifjördur Islandiæ orient.

5. **Lizonia? guaranítica** Speg. Fungi Guar. Pug. I, n. 218. — Maculis 6511
amphigenis, subarescentibus non v. obscure determinatis ex orbiculari irregulariter repando-angulosis, parvis, 2-5 mm. diam., sordide fuscis vel olivascentibus; peritheciis hypophyllis, laxiuscule gregariis, subsuperficialibus, basi matriei in sculptis, primo lepidibus tectis, dein inter illas prominulo-subexertis, globosis vel globoso-depressis, atris, glabris, levibus, 100-110 μ . diam., vertice minute perforato ostiolatis, membranaceo-subcoriacellis, contextu subcrasse parenchymatico, fusco-atro; ascis cylindræco-obelavatis, antice truncato-rotundatis crassiusculeque tunicatis, postice abrupte breviterque attenuato-stipitatis, 45-50 \approx 7-10, aparaphysatis, 8-sporis; sporidiis hyalinis, 2-3-stichis, fusoides vel elongato-ellipticis, 18 \approx 2,5, utrinque subtruncato-rotundatis, rectis, inaequalateralibus, medio 1-septatis, non constrictis, primo loculis 2-3-blastibus, dein simplicibus, eguttulatis, supero sæpe obtusiore ac crassiore.

Hab. ad folia languida *Styracis* speciei cujusdam in dumetis prope Borjas Bras. — An novum genus?

6. **Lizonia? paraguayensis** Speg. Fungi Guar. Pug. I, n. 219. — Maculis 6512
nullis; peritheciis hypophyllis in glomerulis sparsis vel laxe gregariis, rarius confluentibus, parvulis, 0,5-1 mm. diam., dense constipatis, basi sæpius confluenti-cæspitosis, superficialibus, globosis vel elliptico-globosis, 100-110 \approx 70-80, umbonato-ostiolatis,

levibus, tomento v. pruinula alba vel fusca laxè adspersis, in sicco sæpe collapsis, membranaceo-subcoriaceis, contextu parenchymatico, atro-fuligineo, subopaco; ascis ovatis vel obclavatis, apice obtuse rotundatis vel subtruncatis, crasse tunicatis, basi abrupte subcoarctato-stipitellatis, 50-80 \approx 15-20, aparaphysatis, 8-sporis; sporidiis 2-3-stichis vel subinordinatis, elliptico-elongatis v. subfusoides, utrinque obtusiuscule rotundatis, 27-29 \approx 6,5, medio 1-septatis, non constrictis, æquilateralibus, rectis v. curvulis, eguttulatis, hyalinis.

Hab. ad folia viva *Styracis* speciei cujusdam in silvis apud pagum Rica Bras. — An novum genus?

7. **Lizonia? inæqualis** Winter in Hedwigia 1885, p. 261. — Peritheciis amphigenis, soros rotundatos vel irregulares, sæpe compactos, 6513
 $\frac{1}{2}$ -10 mm. latos formantibus, plerumque densissime stipatis, superficialibus, globosis, depressis, demum vertice impresso, umbilicato, verruculosus, atris, opacis, ostiolo minutissimo, pertuso, interdum brevissime papilliformi, 210-240 μ , diam.; ascis oblongis, sursum parum, deorsum magis attenuatis, stipite sublongo, gracili præditis, membrana apice valde incrassata, 8-sporis, 70-75 \approx 19-20; sporidiis subdistichis, ellipticis, 2-cellularibus, cellula superiore multo majori, elliptica, basi subtruncata, cellula inferiore apiculiformi, minutissima, primo hyalinis, demum pallide fuscidulis.

Hab. in foliis vivis *Compositæ* adhuc ignotæ, scandentis (*Mikaniae* spec.?) prope S. Francisco Brasiliæ (E. ULE).

MELANOPSAMMA Niessl. — Sacc. Syll. I. pag. 675.

- *1. **Melanopsamma Saccardiana** Bomm. et Rouss. in litt. Sacc. Misc. 6514
 Myc. I, pag. 18. — Peritheciis gregariis, minutis, $\frac{1}{6}$ mm. diam., subglobosis, obtuse papillatis, atris, glabrescentibus, sed hyphis dematiaceis (propriis?) rigidulis, fuligineis, plerumque cinctis; ascis subcylindricis, aparaphysatis vel spurie paraphysatis, 60-70 \approx 5-7, apice rotundatis, deorsum attenuatis breviterque stipitatis, octosporis; sporidiis oblique monostichis v. distichis, breve oblongis, utrinque obtusiusculis, diu continuis, tandem distincte constricto-1-septatis, 7-8 \approx 4, 2-4-guttulatis, hyalinis.

Hab. in ligno fagineo putrescente, Groenendael Belgii. — Sociis *Helminthosporio apiculato* et *Lasiosphaeria hispida*.

- *2. **Melanopsamma Amphispheeria** Schulz. et Sacc. in Rev. Myc. 1884, 6515
 Schulz. Ill. Fung. Slav. n. 110. — Peritheciis dense gregariis, superficialibus nigris, levissimis, globosis vel globoso-conicis, $\frac{1}{10}$ - $\frac{1}{5}$

mm. diam., ostiolo obtuse conico; ascis cylindricis, paraphysatis, brevissime stipitatis, octosporis; sporidiis recte vel oblique monostichis, ellipsoideis, constricto-1-septatis, $17 \approx 8$, hyalinis, (extra ascos subinde 3-septatis).

Hab. in ramis decorticatis Cydoniæ vulgaris prope Vin-kovce Slavoniæ.

- *12. **Melanopsamma emergens** Schulz. et Sacc., in Rev. Myc. 1884, 6516
Schulz. Ill. Fung. Slav. n. 615. — Peritheciis laxè gregariis, ligno semiimmersis globulosis, sursum conicis, minutis, 1-2 mm. diam., carbonaceis, minute verruculosis, atris; ostiolo obtusiusculo, perforato; ascis tereti-clavulatis, subsessilibus, filiformi-paraphysatis, octosporis; sporidiis distichis oblongis, sæpe curvulis, utrinque rotundatis, medio constrictis, 4-guttulatis, $14-21 \approx 4,5$, hyalinis.
17. **Melanopsamma salicaria** (Karst.) Sacc. Syll. II, Add. XLV. *M. 6085
fallax Sacc. et Br. Miscell. Myc. II, p. 22, n. 93. — A typo recedit sporidiis minoribus, nempe $12-14 \approx 6-8$, et matrice superficie dealbata.

Hab. in cortice Salicis albæ, Troyes Galliæ (BRIARD).

- *21. **Melanopsamma Romelliana** Sacc. in litt. — Peritheciis sparsis 6517
vel subgregariis, primum sphaeroideis demum collapsis, subastomis, superficialibus, nitidis, levibus, $\frac{1}{3}-\frac{1}{4}$ mm. diam.; ascis clavatis, apice nonnihil attenuatis, sessilibus vel breviter pedicellatis, $33-48 \approx 7-9$, octosporis; sporidiis subdistichis vel in medio conglobatis, spurie 1-septatis, primo 4-guttulatis, medio vix constrictis, $7-10 \approx 3-4\frac{1}{2}$ (plerumque $8-9 \approx 3\frac{1}{2}$), hyalinis.

Hab. in corbis Orchidearum in calidario Horti botanici Upsaliensis Sueciæ (ROMELL).

LENTOMITA Niessl. — Sacc. Syll. I, p. 585.

- *1. **Lentomita longicollis** Karst. in Hedw. 1884, n. 6, p. 85. — Rev. 6518
atque Synop. Ascom. fenn. p. 58. — Peritheciis gregariis, innatis, dein semierumpentibus, rarissime liberis, sphaeroideis, nudis, glabris, fragilibus, atris, rostro cylindræo, recto, vulgo perithecium æquante, 4 μ . lat.; sporidiis 8: nis, monostichis, oblongato-ellipsoideis, ultra medium uniseptatis, junioribus 1-2-guttatis, ad septum non constrictis, chlorino-hyalinis, $11-16 \approx 5-6$.

Hab. in ligno vetusto Betulæ in Mustiala Fenniæ. — Peritheciis majoribus, basi haud applanatis, rostro longiore; sporidiis majoribus, ultra medium spurie uniseptatis etc. ab affini *Lent. brevicolle* differt.

VENTURIA Ces. et De Not. — Sacc. Syll. I, p. 587.

1. **Venturia chlorospora** (Ces.) Karst. — Sacc. Syll. I, pag. 586, var. **canescens** Karst. Myc. fenn. II, pag. 190, *Sphærella canescens* Karst. Fung. Fenn. exsicc. 895. — A typo differt sporidiis dilu-
tissime luteolis, angustioribus, 14-20 \approx 6. — In foliis Salicis acu-
tifoliæ vetustis, Mustiala Fenicæ.

*2. **Venturia islandica** Johans. Svamp. fran. Island. p. 168, t. XXIX, fig. 10. — Peritheciis plerumque hypophyllis, sparsis, superficialibus, nigris, subsphæroideis vel ovoideis, in superiore parte setulis nigris paucis (7-10), 100-135 μ . longis ornatis; ascis ovoideo-elongatis, plerumque inæquilateralibus, paraphysatis, sessilibus, octosporis, 54-57 \approx 18-20; sporidiis distichis vel conglobatis, ovoideis vel ovoideo-elongatis, prope basim septatis, ad septum non constrictis, hyalinis, 19-24 \approx 6-8, loculo majore 15-20 \approx 3-5.

Hab. in foliis emortuis Dryadis octopetalæ, Eskifjordur Islandiæ orientalis.

*1. **Venturia Cassandræ** Peck 38 Rep. St. Mus. p. 104, t. 2, fig. 11-14, — Maculis rufo-brunneis v. brunneis, sæpe centro griseis; peritheciis amphigenis, minutis, 70-80 μ . diam., nigris, setis minutis, rectis, paucis, divergentibus, 30-40 μ . longis sursum auctis; ascis oblongis, sursum leniter constrictis, 40-45 \approx 8-10; sporidiis distichis, oblongis, quadrinucleatis, medio uniseptato-constrictis, 12 \approx 5, hyalinis.

Hab. in foliis vivis Cassandræ calyculatae, Caroga Americæ borealis.

7. **Venturia ilicifolia** Cooke. — Sacc. Syll. I, p. 588. Diagnosis nova a Winter relata (confr. Hedwigia 1885, p. 98) a Saccardiana non differt nisi setulis peritheciis longioribus, nempe 100-120 \approx 15; hinc species Saccardoi ut typi varietas **breviseta** censenda est.

*7. **Venturia socia** Sacc. et Berl. in Rev. Myc. tab. LIV, f. 4, bis. — Peritheciis globosis, 200-300 μ . diam., membranaceis, subastomis, contextu laxo, olivaceo, setuligeris; setis erectis, subulatis, quandoque apice recurvatis, continuis, subhyalinis; ascis subclavatis v. subfuscideis, 30-40 \approx 10, octosporis, sessilibus, aparaphysatis; sporidiis distichis, oblongis, utrinque rotundatis, guttuligeris vel spurie uniseptatis, 10 \approx 4, hyalinis.

Hab. in pag. infer. foliorum..... in subiculo Asterinæ cujusdam Santos in Brasilia. — *V. nobili* propinqua, a qua setulis subhyalinis etc. differt.

8. **Venturia applanata** Ell. et Mart. in Am. Nat. Bot. 1884, p. 69. — Peritheciis hypophyllis, lentiformibus, 100 μ . diam., centro per-

tusis, contextu celluloso, subradiato, setis brunneis, parce septatis, 12-15, erectis, 70-100 μ . longis præditis; ascis oblongis, 40 \approx 10-12; sporidiis di-tristichis, ovato-oblongis, 1-septatis, flaveolis, 10-12 \approx 3.

Hab. in foliis vivis Magnoliæ glaucæ, New Florida Americæ borealis.

- *9. **Venturia saccardioides** Ell. et Mart. Am. Nat. 1881, pag. 69. 6523

— Peritheciis hypophyllis, sparsis, brunneo-nigris, sursum collapsis, 150-200 μ . diam., setis 100-140 μ . longis vestitis; ascis obovatis, 4-6-sporis; sporidiis obovatis, triseptatis, medio constrictis, hyalinis, 15-16 \approx 3-3 $\frac{1}{2}$.

Hab. in foliis vivis Magnoliæ glaucæ, New Florida Amer. bor. — Verisimiliter asci, dum perfecte evoluti, octospori sunt.

- *10. **Venturia cupulata** Ell. et Mart. Am. Nat. Bot. 1884, p. 69. — 6524

Peritheciis hypophyllis, sparsis, astomis, 300 μ . diam., basi setosis, apice calvis collapsisque; setis brunneo-nigris, 210 \approx 6; ascis oblongis, 48 \approx 12, octosporis; sporidiis obovato-hyalinis distichis, uniseptatis, 12-13 \approx 4-4 $\frac{1}{2}$.

Hab. in foliis vivis Quercus laurifoliæ, New Florida Americæ borealis.

11. **Venturia Grossulariæ** (Auersw. et Fl.) Sacc. Syll. I, pag. 589, 2998

Winter in Hedwigia 1885, pag. 99. — Asci plerumque obclavati i. e. e basi latiori sursum parum attenuati, 35-40 \approx 9.

- *11. **Venturia curviseta** Peck in 35 Rep. St. Mus. Bot. 1884, pag. 46. 6525

— Peritheciis numerosis, minutis 75-100 μ . diam., coacervatis vel subgregariis, nigris, apice 5-8 setis nigris, divergentibus, basi abrupte curvatis, 75-125 μ . longis, aucto; ascis oblongis, sursum attenuatis, sæpe leniter curvulis, 40-50; sporidiis stipatis vel distichis, oblongis, 10,5-12,5 \approx 4-5, hyalinis, parte superiore crassiore.

Hab. in foliis languidis Nemopanthis canadensis Fenter Amer. bor.

- *14. **Venturia Arctostaphyli** Cooke et Harkness in Grevillea XIII, 6526

p. 20. — Amphigena, sparsa, atra; peritheciis subglobosis, superficialibus, strigosis, 120-150 μ . diam., pilis rigidis, acicularibus, 80 μ . long.; ascis obclavatis, sessilibus, octosporis; sporidiis ellipticis, utrinque rotundatis vix constrictis, uniseptatis, flavidis, 12-15 \approx 5.

Hab. in foliis emortuis Arctostaphyli in California.

- *15. **Venturia elegantula** Rehm in Hedwigia 1885, p. 241. — 6527

Peritheciis ut in *V. Myrtilli* sed majoribus, sparsis vel confertis, sessilibus aut primitus immersis; vertice setis simplicibus, acutis, fu-

scis, 60-120 \approx 4 præditis, parenchymatice fusce contextis; ascis pseudopiriformibus, latis, basi sessilibus, 8-sporis, 75-90 \approx 15-21; sporidiis distichis, oblongis, obtusis, 2-cellularibus, cellulis æqualiter longis, sæpe 2-nucleolatis, supera latiore, medio vix constrictis, viridulis, 15-21, plerumque 24-27 \approx 6-7, paraphysibus paucis, intricatis.

Hab. ad folia putrida Vaccinii Myrtilli supra Gampenhöfe prope Sulden ad montem Ortler in Tirolia (Dr. RENN).

- *16. **Venturia Straussi** Sacc. et Roum. in Rev. Myc. 1884, pag. 95, 6528
tab. LXVII, fig. 2, Patouill. Tab. Anal. Fung. III, p. 133, fig. 299, *Chaetomium pusillum* Strauss in Sturm. Deut. Pilze III, 34 (nec Fries). — Peritheciis hic inde congestis, superficialibus, subiculo setoso, fusco, subrepente insidentibus setisque rigidulis, fuligineis, subrectis, septatis undique vestitis, ostiolo obsoleto; ascis teretibus, brevissime stipitatis, 90 \approx 16, non vel spurie paraphysatis, octosporis; sporidiis subdistichis, obovato-oblongis, constricto 1-septatis, loculo infero tenuiore, minute quadriguttatis, lenissime chlorinis, 16-20 \approx 8-9.

Hab. in ramulis foliisque vivis Ericæ scopariæ in silv. pinet. Bordeaux Galliæ.

- *17. **Venturia Gaultheriæ** Ell. et Ev. in Journ. of Myc. 1885, p. 155. 6529
— Maculis orbicularibus, brunneis, $\frac{1}{3}$ mm. diam., centro sæpius griseis; peritheciis sparsis, orbicularibus, 75 μ . diam., membranaceis, contextu crasse parenchymatico, sursum setis paucis, nigris, continuis, rectis, divergentibus, 35 \approx 3, præditis; ascis ovato-oblongis, 30-35 \approx 8-11, basi incrassatis curvulisque, sessilibus, paraphysatis; sporidiis biseriatis, subhyalinis, ovato-oblongis, 3-4 nucleatis, 1-septatis, ad septum parum constrictis.

Hab. in foliis vivis Gaultheriæ procumbentis, Newfield Amer. bor.

- *20. **Venturia aggregata** Winter in Hedw. 1884, p. 172. — Peritheciis amphigenis, superficialibus, 2-20 (rarius pluribus) densissime 6530
aggregatis, stromatis minuti, rotundati, verruciformis, extus atri, intus cinnabariini superficie insidentibus, depresso globosis, demum cupuliformibus, parcissime setulosis, ostiolo vix conspicuo perforatis, atris; ascis copiosis, clavatis, longe pedicellatis, apicem versus parum attenuatis, 8-sporis, paraphysibus filiformibus, numerosis obvallatis, 60-80 \approx 19-21; sporidiis inordinate subdistichis, elliptico-oblongis, plerumque inæquilateralibus, medio uniseptatis et parum constrictis, demum pallidissime fuscidulis, 16-17 \approx 8-9.

Hab. in foliis..... prope S. Francisco Bras. (E. ULE).

21. **Venturia Petasitidis** (Fuck.) Sacc. Syll. I, p. 592, Winter in Hedwigia 1885, p. 98. — Asci oblongi, utrinque parum attenuati, sessiles, 8-spori, 43-50 \approx 9-10. 2308

*23. **Venturia Balansæ** Speg. Fungi Guar. Pug. I, n. 220. — Maculis nullis; peritheciis hypophyllis, sparsis, globosis, parvulis, 80-90 μ . diam., atris, setulis erectis, raris, cylindræis, rectis, pluriseptatis, apice obtusis, basi subincrassatulis, 30-120 \approx 4-5, dilute fusco-fuligineis vestitis, vertice minutissime impresso-ostiolatis, in sicco sæpe cupulato-collapsis, tenuiter membranaceis, contextu obscure parenchymatico-fuligineo, subiculo radiante, parcissimo, ex hyphis tenuissimis, continuis, fuscescentibus, simplicibus composito insidentibus; ascis cylindræis, apice rotundatis, crassiuscule tunicatis, basi breve attenuato-stipitatis, 45-50 \approx 4,5-5, paraphysisibus filiformibus, superne ramulosis, laxe obvallatis, 8-sporis; sporidiis hyalinis, recte et alterne distichis, elliptico-fusoideis, utrinque acutiuscule rotundatis, 10-12 \approx 2-2,5, rectis v. subinæquilaterali-curvulis, medio 1-septatis, constrictulis, loculis minute 2-guttulatis, supero sæpius paullulo brevior, crassiore obtusioraque. 6531

Hab. ad folia viva Dichondræ repentis in umbrosis silvæ Caa-guazù Bras.

24. **Venturia circinans** (Fr.) Sacc. Syll. I, p. 592. Huc spectant, teste cl. Winter (Hedwigia 1885, p. 98), *Venturia glomerata* et *Dothidea Robergei*. — Sporidia 4,5 tantum lata. 2311

*27. **Venturia anthophila** Passer. Erb. critt. Ital. Ser. II, p. 1369. — Peritheciis sparsis, superficialibus, prominulis, globoso-conicis, atris, opacis parce setulosis; ascis aparaphysatis, rectiusculis, ovato-oblongis, circiter 60 \approx 12; sporidiis oblongis, didymis, medio subconstrictis, loculo altero angustiore, hyalinis, vage minuteque guttulat, 23-25 \approx 7-7,5. 6532

Hab. in floribus exsiccatis Hydrangæ hortensis in horto bot. Parmensi (PASSERINI).

29. **Venturia Potentillæ** (Fries) Sacc. Syll. I, pag. 594, Winter in Hedwigia 1885, p. 98. — Asci oblongo-cylindræi, 40-45 \approx 8-10; sporidia subdisticha, oblongo-ovoidea seu piriformia, infra medium uniseptata, pallide viridula, 12-14 \approx 4-5. 2316

*30. **Venturia Genistæ** (Fuck.) Wint. in Hedwigia 1885, p. 26, *Didymella Genistæ* Sacc. Syll. I, p. 546. — Perithecia ostiolo brevi, apice setarum fasciculo brevissimarum, strictarum, atrarum coronato prædita; asci 80-95 \approx 8-9; sporidia 13-14 \approx 4-5. 2127

- *32. **Venturia microchæta** Pat. in Rev. Myc. 1886, p. 82 (*V. micro-* 6533
sela. — Peritheciis minutis, nigris, globulosis vel depressis, glabris, vertice setis acutis, brevibus, 36-45 μ . longis, nigris coronato; ascis cylindræis, breviter pedicellatis, 75 μ . longis; sporidiis cylindraceis, 1-septatis, hyalinis vel vix virescentibus, 21 \approx 2-3.

Hab. in foliis emortuis Caricis, Thibet oriental. (AB. DAVID).

- *41. **Venturia nivalis** (Strauss) Berl. et Vogl. *Chetomium nivale* 6534
Strauss in Sturm. Deut. Flora III, 34. — Peritheciis globosis, undique pilis longis, simplicibus, continuis, divergentibus, strictis vestitis, nigris, hypothallo late effuso, nigro, insidentibus; ascis clavatis, sursum rotundatis, basi attenuatis breviterque pedicellatis, tunica crassiuscula præditis, octosporis; sporidiis ovoideo-elongatis, biseptatis.

Hab. in foliis ramulisque e. g. pineis sub nive, in alpiibus, Bavaricæ (KUMMER). — Species hæc nec non sequens sporidiis 2-pluriseptatis ornatæ, genus novum constituere merentur.

- *42. **Venturia occidentalis** Ellis et Ev. Journ. of Myc. 1886, p. 43. 6535
Chetomella (?) *perforata* E. et E. in Journ. of Myc. 1885, p. 153. — Peritheciis superficialibus, subglobosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., apice poro minuto pertusis, setis atris, rigidis, continuis, diametrum peritheciorum æquantibus ornatis, membranaceis, contextu crasse parenchymatico, subhemisphæricis; ascis subcylindræis, circiter 75-100 \approx 7-10, (paraphysibus imperfectis 7); sporidiis oblongo-fusiformibus, demum 3-septatis, medio v. quandoque etiam ad cetera septa constrictis, subhyalinis, 20-25 \approx 4-5.

Hab. in caulibus Cirsii discoloris, C. altissimi et Artemisicæ ludovicianæ, Ames Jowa Amer. bor. — *Var. minor* Ellis et Ev. in Journ. of Myc. 1886, pag. 43: ascis minoribus, 50-60 \approx 6-8, paraphysibus gracilioribus; sporidiis 15 \approx 3, ovoideis; medio vix coloratis. In *Artemisia ludoviciana* in Amer. bor.

Observatio

Species sequentes, in Sylloge sub aliis generibus militantes, sec. cl. Winter (Confr. Hedwigia 1886, p. 27) ad hoc genus pertinent, nam perithecia ostiolo apice fasciculo setarum brevium prædita sunt sporidiaque uniseptata.

- *24 **Venturia Geranii** (Fr.) Winter *Stigmatea Ger.* Sacc. Syll. I, p. 511. 2103
*22. **Venturia epilobiana** (Sacc.) Winter *Lavstadia epilobiana* Sacc. 1638
Syll. I, p. 429.
*12. **Venturia Systema-solare** (Fuck.) Winter *Lavstadia Systema* 1606
solare Sacc. Syll. I, p. 423.

ERIOSPHÆRIA Sacc. Syll. I, p. 397.

- *1 **Eriosphæria vermicularioides** Sacc. et Roum. in Rev. Myc. 1883, 6533
tab. 39, fig. 3. — Peritheciis dense gregariis superficialibus, globoso-papillatis, nigris, minutis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., subcarbonaceis, setulis filiformibus, rigidis, septatis, fuligineis, basi cinctis parce-que supra conspersis; ascis cylindræis, breve stipitatis, 70-80 \approx 5, octosporis; sporidiis oblique monostichis, ellipsoideis, 1-septatis constrictisque, utrinque rotundatis, 7-8 \approx 4, hyalinis.

Hab. in lignis putrescentibus in Gallia. — Ab *E. Vermicularia* differt ascis cylindræis, longioribus et angustioribus; sporidiis monostichis; peritheciis supra sæpius glabratis.

- *9. **Eriosphæria inæqualis** Grove in litt. — Peritheciis ovoideis, cir- 6537
citer 150 μ . diam., confertis, superficialibus, parte inferiori pilis brevibus, rigidis, radiantibus obsitis, superiori nudis, prominulis, rugosiusculis, nitidis; ostiolo conico, pertuso; ascis stipatis, cylindricis, 50 μ . long., subinde basi attenuatis et deinde 70-80 \approx 3-4; sporidiis monostichis, oblongis, 7-8 \approx $2\frac{1}{2}$ -3 μ ., inæqualibus, 2-3-guttulatis, hyalinis, maturis tenuiter 1-septatis; loculo superiori ovoideo 1-guttulato, inferiori angustiori et longiori, attenuato, conico, 2-guttulato; loculis demum facile secedentibus.

Hab. in ligno putri, unà cum *Gonytricho cæsius*, Barnt Green prope Birmingham, Brit. — *Trichosphærie pilosæ* manifeste affinis et ab icone Curreyana (Linn. Trans. XXII, t. 57, f. 21) vix nisi sporidiis inæqualibus differens. Cum *Trichosphærie pilosæ*, var. *nitidula* (Syll. II, XXXIV) comparanda, quæ probabiliter status junior videretur.

- *10. **Eriosphæria calospora** Speg. Fungi Guar. Pug. I, n. 221. — 6538
Peritheciis dense sparsis v. laxè gregariis in matrice immutata v. vix dealbata superficialibus, udis, globosis, 200-250 μ . diam., sic-cis cupulato-collapsis, setulis pluriseptatis, fuligineis, breviusculis, 50-100 \approx 5, subcylindræis, apice acutatis v. subclavulato-hyalinis, basi non incrassatis laxissime vestitis, membranaceo-coriacellis, atris, levibus, contextu dense subimperspicueque parenchymatico, olivaceo, subopaco, ostiolo minute umbonatulato ornatis; ascis ellipticæ v. elliptico-subfusoides, antice truncato-rotundatis, postice brevissime crasseque attenuato-stipitatis, 45-55 \approx 13-20, aparaphysatis, 8-sporis; sporidiis hyalinis, recte v. oblique distichis, elliptico-elongatis, utrinque acutiuscule rotundatis, non v. vix inæquilateralibus, rarius subsigmoideis, medio 1-septatis, non v. leniter constrictis, lo-

culis subæqualibus non v. 2-guttulatis, episporio primo levi, dein transverse rugoso, rugis minute tuberculis.

Hab. ad culmos emortuos *Bambusaceæ* scandentis cujusdam in silva subvirginea Caa-guazù Bras.

GIBBERA Fr. — Sacc. Syll. I, p. 599.

- *2. **Gibbera guaranítica** Speg. Fungi Guar. Pug. I, n. 222. — Peri- 6539
 theciis superficialibus, dense lateque cæspitose-stipatis, plagulas 1-10 cm. diam., granulosas, sordide rubiginosas efficientibus, obovatis, nigro-fuscis, levibus, parvulis, 600 \approx 300-350, primo ferrugineo-pruinulosis, dein glabratis, ad basin tantum subtomentosulis, hyphis repentibus, parce ramosis, septulatis, gracilibus 3-4 μ . crass., fuliginosis donatis, ostiolo minuto, umbilicato, radiato-ruguloso, coriacellis; contextu parenchymatico-indistincto, fuligineo-olivaceo, subopaco; ascis cylindræco-clavatis, apice rotundatis vel acutatis, basi longiuscule attenuato-pedicellatis p. sp. 65-70 \approx 10-12, ped. 25-30 \approx 3; paraphysibus filiformibus, longioribus, simplicibus v. parce ramulosis, densis obvallatis, 8-sporis; sporidiis oblique monostichis v. recte distichis, ellipticis, sæpius inæquilateralibus, medio 1-septatis, constrictulis, utrinque acutato-rotundatis, 15-18 \approx 6-7, loculis crasse 1-guttulatis, perdilute olivascentibus.

Hab. ad truncos dejectos putrescentes in silvis prope Guarapi Bras.

MELANCONIS Tul. — Sacc. Syll. I, p. 602.

- *1. **Melanconis Aceris** Phill. et Plowr. in Grevillea XIII, p. 77. — 6540
 Stromate valsoideo, atro, suborbiculari vel conico-truncato, 2-5 μ . diam., corti-vel lignicolo, linea atra circumscripto; peritheciis $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., 5-15 coacervatis; ostiolis minutis; ascis clavatis 65-70 \approx 10; sporidiis hyalinis, uniseptatis, nucleatis, ad septum leniter constrictis, ellipsoideis, 12-15 \approx 4-5, muticis.
- Hab.* in *Acere* in Britannia (W. B. Grove).
- *3. **Melanconis Everhartii** Ell. in Bull. Torr. bot. Club. 1883, p. 117. 6541
 — Peritheciis globosis, 0,25 mm. diam., in stromatibus compactis, 4-18; ascis clavato-cylindræcis, 114-120 \approx 19; paraphysibus crassiusculis, remote septatis, granulosis; sporidiis distichis, oblongo-ellipsoideis, uniseptatis, subhyalinis, 34-38 \approx 11.

Hab. in ramulis delapsis *Aceris*, West Chester in Amer. bor. 6542

- *7. **Melanconis dasycarpa** Ellis et Kellerm. in Journ. of Myc. 1886, p. 3. — Stromate corticali, 1 mm. diam. vel paullo latiore, linea

nigra circumscripto; peritheciis 3-8 cortice interiore immersis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., ostiolis asperulis, cylindraco-conoideis, epidermidem stellato-ruptam sæpe perforantibus, fasciculatis et in discum protrusis; ascis oblongo-cylindracois, subsessilibus, 100-115 \approx 18-20; paraphysibus imperfecte evolutis; sporidiis distichis, oblongo cylindracois, leniter curvulis, uniseptatis, subhyalinis, septo non vel vix constrictis, 25-30 \approx 8-10, appendicula crassiuscula, leniter obliqua hyalina, 16-20 \approx 3, utrinque præditis.

Hab. in ramulis putridis *Aceris dasycarpi* Manhattan Kansas Amer. bor. — Affinis *M. Alni*.

DIAPORTHE Nits. — Sacc. Syll. I, p. 607.

- *6. **D. Chorostate Bloxami** (Cooke) Berl. et Vogl. *Valsa Bloxami* 6543
Cooke in Grevillea XIV, p. 47. — Pustulis convexis, emergentibus; peritheciis 12-20 congestis, piriformibus, in collum elongatum productis, pulvere aureo-fulvo obductis; disco orbiculari, fusco; ascis cylindricis, octosporis; sporidiis uniserialibus, ellipticis vel sublanceolatis, medio uniseptatis, leniter constrictis, hyalinis, 22 \approx 6.

Hab. in ramis Fagi? Twycross Britanniae (BLOXAM).

- *17. **D. Chorostate Hippocastani** (Cooke) Berl. et Vogl. *Valsa Hippocastani* 6544
Cooke in Grevillea XIII, pag. 98. — Pustulis paucis peritheciis (6-8) in cortice immersis et cuticulam e compositis ostiolis convergentibus perforatam elevantibus; peritheciis subglobosis, depressis, plerumque gregariis, atris; ascis clavatis, subsessilibus, 8-sporis; sporidiis fusiformibus, biserialis, uniseptatis, biguttulatis, ad septa parum constrictis, aliquando utrinque appendicula hyalina præditis, hyalinis, 25-28 \approx 5-7.

Hab. in ramulis *Æsculi Hippocastani*, Kew, Bustey Park Hampton Court et Honnington Britann. (SUFFOLK).

- *18. **D. Chorostate æsculicola** (Cooke) Berl. et Vogl. *Valsa æsculicola* 6545
Cooke in Grevillea XIV, pag. 47. — Pustulis orbicularibus, in lineas breves dispositis; peritheciis subglobosis, atris, congestis, ostiolis cylindricis, convergentibus, levibus, emergentibus; ascis clavatis; sporidiis biserialibus, fusoidis, quadrinucleatis, demum uniseptatis, hyalinis, 20 \approx 4.

Hab. in ramis *Æsculi*, Sydenham Britanniae.

- *19. **D. Chorostate sparsa** Niessl Contr. Fl. Myc. Lus. pag. 17. 6546
— Stromate late effuso, ambiente, toto immerso, diatrypeo, corticis interioris superficiem nigrificante, ligni substantiam non mutante,

sed linea nigra limitato; peritheciis minutis, sparsis, in cortice interiori, depresso globosis, ostiolo crasso, brevi, vix erumpente; ascis lanceolatis, sessilibus, 8-sporis, 52-60 \approx 8-10; sporidiis laxe distichis, oblongis, obtusiusculis, rectis, medio septatis, hyalinis, 10-12 \approx 3-4.

Hab. ad Glycines violaceæ ramulos aridos, Coimbra Lusitanicæ (MOLLER). — Adsunt spermogonia sparsa, sub peridermio immutato in corticis superficie nidulantia, minuta, ellipsoideo-globosa, ostiolo papilliformi, spermatis oblongis, plerumque rectis, 2-4-guttulatis, hyalinis, 12-15 \approx 4-5.

*24. **D. Chorostate concrescens** (Schw.) Cooke in Grevillea XIII, 4172 pag. 38, *Sphæria concrescens* Schw. Syn. Amer. bor. 1301, et Sacc. Syll. II, p. 378. — Sporidia fusiformia, quadrinucleata, demum uniseptata, 12 μ . longa.

*32. **D. Chorostate fuscidula** (Cooke) Berl. et Vogl. *Valsa fuscidula* Cooke in Grevillea XIV, pag. 48. — Pustulata, fusca; pustulis erumpentibus, convexis, subpulveraceis; peritheciis paucis, immersis, collis elongatis, convergentibus, demum punctato-emergentibus; ascis clavatis, breviter stipitatis, octosporis; sporidiis inordinatis, arcte fusoides, binucleatis, demum uniseptatis, hyalinis, 18-20 \approx 3,5.

Hab. in ramulis *Quercus* verisimiliter in Britannia.

*36. **D. Chorostate Eucalypti** Harkn. New Calif. Fungi pag. 24. 6548 — Peritheciis in acervulos valsoideos, linea atra circumscriptis, aggregatis, rostris 1 mm. vel amplius longis, laxis, sæpe agglutinatos; ascis oblongo-fusoides, 33 \approx 7; sporidiis fusiformibus, vix curvulis, hyalinis, 1-septatis, 4-guttatis, acuminatis, 15 \approx 4.

Hab. in foliis emortuis *Eucalypti* Globuli, S. Francisco in California.

*44. **D. Chorostate pulchella** Sacc. et Br. Misc. Myc. I, pag. 3. — 6519 Pustulis gregariis, subcutaneo-erumpentibus, $1\frac{1}{3}$ - $1\frac{1}{2}$ mm. diam.; peritheciis paucis, circumstantibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., globulosis, ostiollis convergentibus, brevibus, non exertis; ascis fusoides, subsessilibus, aparaphysatis, 60-76 \approx 12-16, lumine apice minute bifoveolato, octosporis; sporidiis subdistichis, oblongo-fusoides, constricto-1-septatis, 16-22 \approx 7-9, utrinque acutiusculis, rectis curvulise, hyalinis.

Hab. in ramis corticatis *Populi* pyramidalis, Troyes Gallicæ (BRIARD). — *Melanconi dolosa* affinis videtur.

*45. **D. Chorostate Trecassium** Sacc. et Briard Misc. Myc. I, p. 4. 6550

— Peritheciis corticulis, in acervulos valseos, conico-discoideos, regulares arcte aggregatis, globosis, atris, $\frac{1}{3}$ mm. diam., stromate albido, ligneo exceptis, circuloque nigro eximie circumscriptis, ostiolis in conum atrum, obtusiusculum, parum exstans coalescentibus; ascis cylindræis, breve stipitatis, apice lumine coarctato, rotundatis, p. sporif. 95–110 \approx 9–11, octosporis; sporidiis monostichis, ellipticis, utrinque subrotundatis, constricto 1-septatis, 18–22 \approx 7–9, biguttatis granulosisve, hyalinis.

Hab. in ramis corticatis Platani orientalis prope Troyes (Trecasses) Galliæ. — Ob sporidia elliptica et ascos teretes ad *D. fibrosam* nutat (BRIARD).

- * 46. **D. Chorostate Berlesiana** Sacc. et Roum. in Rev. Myc. 1883, 6551 pag. 234, tab. 39, fig. 4. — Pustulis gregariis, discoideis, subcutaneis, mediocribus, linea stromatica nulla vel obsoleta; peritheciis circinantibus, minutis, globosis, $\frac{1}{4}$ mm. diam.; ostiolis in disculum erumpentem, atrum conjunctis, obtusiusculis vix emergentibus; ascis fusoido-clavatis, 50 \approx 8, aparaphysatis octosporis; sporidiis, distichis cylindræis, utrinque obtusiusculis, 13–17 \approx 3,3–3,5, 1-septatis, non vel vix constrictis, muticis, 4-guttatis, hyalinis.

Hab. in ramis corticatis Rhamni Frangulæ. — A *D. syn-genesia* sporidiis muticis, stromatibus haud concentrice striatis etc. differt.

- * 51. **D. Chorostate elæostroma** (Cooke) Berl. et Vogl. *Valsa olivæ-stroma* Cooke in Grevillea XIV, pag. 48. — Erumpens; pustalis sub epidermide nidulantibus; peritheciis 6–10 in circulos dispositis, stromate olivaceo, pulveraceo insidentibus, collis subelongatis convergentibus; ascis clavatis, octosporis; sporidiis subuniseriis, lanceolatis, medio uniseptatis, leniter constrictis, hyalinis, 26–28 \approx 8.

Hab. in ramis Cerasi Avium, Jedburgh Britannæ.

- * 52. **D. Chorostate cylindrospora** Peck 38 Rep. St. Mus. pag. 104. 6553 — Stromatibus valsoideis, prominulis, erumpentibus, sparsis; peritheciis numerosis, 15–30 in quoque stromate, stipatis, epidermide intus nigrescente tectis, ostiolis longis, stipatis, exertis, fere æqualibus, nigris; ascis acutis, subfusiformibus, 45–55 \approx 6–8; sporidiis subcylindræis, stipatis vel distichis, quadrinucleatis, 13–16 \approx 3–4.

Hab. in ramis emortuis Pruni pensylvanicæ in montibus Adirondach Amer. bor.

- * 53. **D. Chorostate Cratægi** (Curr.) Fuck. — Sacc. Syll. I, pag. 204. 2405 Incertum an huc spectet *Pseudovalsa* (*Valsaria*) *Cratægi* Win-

ter, Cooke in Grevillea XIV, p. 48. — Stromate valsoideo; sporidiis subuniseriatis, ellipticis, uniseptatis, pallide fuscis, 16-18 \approx 6.

Hab. in Cratægo in Germania.

- *57. **D. Chorostate Ellisii** Rehm in litt. Ellis et Ev. in Torr. of Bot. Club. 1883, pag. 89. — Stromate corticali, non linea nigra circumscripto; peritheciis numerosis, 15-20 in quoque stromate, 0,5 mm. diam. stipatis, subcircinatis, corticem in pustulas parvas elevantibus, disco convexo, brunneo, margine ostiolis obtusis perforato, centrum pustularum occupante; ascis subclavatis, 57 \approx 8; sporidiis distichis vel stipatis, acute ellipsoideis, 4-nucleatis, subinde medio leniter constrictis, 11-15 \approx 3,5-5,5. 6554

Hab. in ramis Carpini americanæ. — Adest simul *Cytophora* sporulis oblongis, hyalinis, 4-nucleatis, 8-11 \approx 2,5.

- *60. **D. Chorostate punctata** (Cooke) Berl. et Vogl. *Valsa punctata* Cooke in Grevillea XIV, p. 47. — Pustulis convexis, emergentibus, ostiolis brevibus, in discum orbicularem congestis; ascis clavatis, breviter stipitatis, octosporis; sporidiis biserialibus, ellipticis, rotundatis, medio uniseptatis, nec constrictis, hyalinis, 20 \approx 7. 6555

Hab. in ramis Tiliæ et Salicis in Sydenham Britanniae.

- *61. **D. Chorostate Briardiana** Sacc. Miscell. Myc. I, pag. 3. — Peritheciis subcutaneo-prominulis, in acervulos valseos, exiguos, gregarios dense congestis, globulosis, $\frac{1}{3}$ mm. diam., ostiolis breviusculis, vix convergentibus, peridermium vix perforantibus; ascis oblongo-fusoideis, subinæqualibus, 44-52 \approx 6-8, octosporis; sporidiis monostichis vel distichis, oblongo-ellipsoideis, utrinque obtusiusculis, 12-14 \approx 4, medio leniter constrictis tenuiterque 1-septatis, 4-guttatis, hyalinis. 6556

Hab. in ramis emortuis salicinis pr. Troyes Galliae (BRIARD).

- *63. **D. Chorostate elephantina** Cooke et Harkn. in Grevillea XIV, pag. 8. — Pustulis valsæformibus, rarissime dispersis; peritheciis cortice immersis vel ligno adnatis, globosis, atris, ostiolis tenuibus, elongatis, flexuosis, cylindræis, emergentibus; ascis clavatis, octosporis; sporidiis lanceolatis, quadrinucleatis, mox uniseptatis, hyalinis, 12 \approx 3,5. 6557

Hab. in caulibus Geranii in California (HARKNESS).

- *64. **D. Chorostate neglecta** (Duby) Berl. et Vogl. *Valsa neglecta* Duby in Herb. Currey. — Cooke in Grevillea XIV, p. 47. — Stromate epidermide tecto, nigro nigrescente, ovato aut globoso, in ramis junioribus nullo, peritheciis 6, compresso-ovatis, verticalibus, 6558

dense congestis, basi applanatis; ostiolis exertis, fragilibus, atherimis, cylindricis, plus minus elongatis, truncato-papillatis, interdum inflexis, sæpe lateralibus; ascis cylindricis, angustis; sporidiis ovoideis, hyalinis, uniseriatis, nucleolatis, rarissime uniseptatis.

Hab. ad caules siccos *Genistæ tinctoriæ* in Britannia.

- * 102. **D. Euporthe silvestris** Sacc. et Berl. *Miscell. Myc.* II, p. 27, 6559
n. 121, tab. VIII, fig. 7. — Peritheciis laxè gregariis, ligno semi-infossis et peridermio tectis, linea angusta, endoxyla, atra, hinc inde circumscriptis, globulosis, $\frac{1}{2}$ mm. diam. ostiolis vix emergentibus; ascis tereti-fusoideis, 45-50 \approx 6-8; sporidiis octonis, distichis v. oblique monostichis, fusoideis, constricto 1-septatis, 14-15 \approx 5, 4-guttatis, hyalinis, utrinque initio minute hyalino-apiculatis.

Hab. in sarmentis *Vitis viniferæ silvestris*, Cervarese Italiae borealis.

- * 115. **D. Euporthe gorgonoidea** Cooke et Hark. in *Grevillea* XIII, 6560
p. 18. — Stromate effuso, cortice facile solubili tecto, ligni superficiem nigrificante v. crustam interruptam sistente, intus nigro-limitato; peritheciis globosis, ligno immersis, plerumque dense stipatis; ostiolis cylindricis, gracilibus, flexuosis, maxime elongatis; ascis cylindrico-clavatis, octosporis; sporidiis fusiformibus, biseriatis, rectis, quadri-nucleatis, demum 2-4 cellularibus, hyalinis, 15-17 \approx 3.

Hab. in ramis emortuis *Acaciæ* in California (HARKNESS). — Diversa a *D. medusæa* et *D. fasciculata*.

136. **D. Euporthe ceuthosporioides** (Berk.) Sacc. *Syll.* I, pag. 646. — 6561
Forma **Lauri nobilis** Pass. in litt. ad Brunaud. — A typo differt stromate minus nitente, ceterum simillimo et piceo (forte initio rufescente, ut mavult cl. Berkeley), ascis minoribus, 60 \approx 7-8, sporidiisque quoque minoribus, 11-13 \approx 3,5-4.

Hab. in foliis *Bruni Lauri cerasi*, *Saintes Galliæ* (BRUNAUD). — In utraque forma sporidia sunt utrinque obtusiuscula, sed videntur mucronulo mucoso, perexiguo aucta.

- * 137. **D. Euporthe scobinoides** Schulz. et Sacc. in *Rev. Myc.* 1884, 6562
Schulz. *Ill. Fung. Slav.* n. 803. — Peritheciis laxè gregariis, ligno subimmutato vel superficie leniter infuscato penitus immersis, linea stromatica nigra, per lignum sinuose excurrente, circumscriptis, globulosis 0,3-0,4 mm. diam., collo teretiusculo, in ostiolum erumpens, obtusiusculum desinente; ascis fusoideis, sessilibus, octosporis, 15 \approx 8; sporidiis distichis, oblongo-fusoideis, utrinque obtusiusculis, 4-guttatis, medio-constrictis, 10-14 \approx 3, hyalinis.

Hab. in ramis dein decorticatis Fraxini excelsioris pr. Vinkovce Slavoniæ.

- * 174. **D. Euporthe immutabilis** Cooke et Harkn. in Grevillea XIV, 6563 pag. 9. — Stromate varie effuso interruptoque, caulis superficiem vix decolorante, linea nigra in ligno limitato; peritheciis sparsis globosis, ostioliis brevibus, punctiformibus; ascis clavatis, octosporis; sporidiis sublanceolatis, biserialibus, rectis curvulisve, 2-4 nucleatis, uniseptatis, hyalinis, 12-14 \approx 4.

Hab. in caule Scrophulariæ in California (HARKNESS).

174. **D. Euporthe Tulasnei** Niessl. — Sacc. Syll. I, pag. 657, forma 2526 **Galegæ** Wint. Contr. Fl. Myc. Lus. V, pag. 18. — Differt a forma typica; ostioliis interdum valde elongatis, nodulosus, flexuosus; sporidiis parum crassioribus, semper medio constrictis.

Hab. in caulibus putridis Galegæ officinalis cum spermogoniis, Coimbra in Lusitania (MOLLER). — An species nova?

- * 185. **D. Euporthe brachystoma** Sacc. et Malbr. Fung. Gall. ser. V, 6561 n. 2163. — Stromate effuso, epidermidem decolorante lineaque sinuosa, nigra circumscripto; peritheciis gregariis, cortice tectis lignoque adnatis, globoso-depressis, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., nigris; ostiolo brevissimo, vix emergente; ascis fusoides, sessilibus, aparthysatis, octosporis, 70 \approx 7; sporidiis distichis, ovato-fusoides, 12 \approx 3,5, rectis, utrinque obtusiusculis, 4-guttatis, dein 1-septatis, hyalinis. — Spermogoniis *Phomum Dianthi* sistentibus; peritheciis in macula picea plerumque innatis, epidermide velatis, globoso-depressis; spermatiis ovato-oblongis, 7 \approx 3, biguttatis, hyalinis, stipitellis filiformibus, curvis, 10-12 \approx 1-2 suffultis.

Hab. in caulibus emortuis Dianthi barbati, Brionne Gallicæ. — Hinc *Diaporthi intermediæ*, illinc *D. Tulasnei* affinis species.

- * 188. **D. Euporthe Kellermanniana** Winter in Torr. bot. Club, 1885, 6565 p. 49. — Stromate nullo; peritheciis profunde immersis, depresso globosis, membranaceis, atris, 210-260 μ . latis, ostiolo erumpente præditis; ascis oblongo-fusoides, 8-sporis, 35-40 \approx 5-7; sporidiis oblongis, sæpe inæquilateralibus, utrinque rotundatis vel parum acutiusculis, medio uniseptatis, non constrictis, 4-guttulatis, 9-11 \approx 3-3,5.

Hab. ad culmos putridos Zeæ Maydis pr. Lexington Amer. bot. (W. A. KELLERMANN).

- * 199. **D. Tetrastaga dolosa** Sacc. et Roum. in Rev. Myc. 1883, tab. 6566 39, fig. 5. — Stromate vix ullo manifesto; peritheciis dense et

æqualiter gregariis, cortice immersis, globosis, vix $\frac{1}{2}$ mm. diam., intus griseis, ostiolo brevissimo, obtuso, perforante; ascis fusoideis, 60-70 \approx 10-12, octosporis; sporidiis distichis, fusoideis, utrinque obtusiusculis, medio constricto-1-septatis, 4-guttatis, hyalinis, 10-12 \approx 4.

Hab. in ramis junioribus Robinæ pseudoacaciæ. — A *D. oncostoma* diversissima.

- * 234. **D. Tetrastaga priva** Sacc. et Roum. in Rev. Myc. 1881. — Stromate effuso sed vix manifesto, lineaque nigra privo; peritheciis gregariis cortice immersis, globosis, $\frac{1}{2}$ mm. diam., ostiolo erumpente sed vix exstante; ascis fusoideis, aparaphysatis, 65 \approx 8, octosporis; sporidiis distichis, fusoideis, rectis, utrinque obtuse attenuatis, 16-18 \approx 4,5-5, medio constricto-1-septatis, 4-guttatis, hyalinis. 6567

Hab. in ramis corticatis Fraxini Orni. — A cæteris speciebus fraxinicolis stromate obsoleto, linea nigra deficiente, sporidiis ratione majusculis mox dignoscitur.

- * 237. **D. Tetrastaga interrupta** Niessl Contr. Fl. Myc. lus. p. 17. — Stromate maculiformi, diatrypeo, toto immerso, haud expanso, atropurpureo, interdum expallente, linea atra limitato; peritheciis paucis, in singulo stromate sæpe solitariis, in corticis parenchymate nidulantibus, depresso globosis; ostiolo minimo abbreviato, vix erumpente; ascis lanceolato-clavatis, stipite brevi, 8-sporis, 50-60 \approx 6-7; sporidiis laxe-distichis, fusiformibus, acutiusculis, rectis sed parum inæquilateralibus, medio septatis, haud constrictis, 4-guttulatis, hyalinis, 9-11 \approx 2-3. 6568

Hab. ad ramulos emortuos Tecomæ radicans, in horto botanico, Coimbra Lusitaniæ. — A *Diaporthe Lebiseyi* differt: stromatibus exiguis, peritheciis erostellatis, ascis magis elongatis.

- * 260. **D. Tetrastaga santonensis** Sacc. Fung. Gall. ser. V, n. 2162. — Stromate obsoleto; peritheciis epidermide translucida tectis, globoso-depressis, nigris $\frac{1}{3}$ mm. diam.; ostiolo brevissimo, obtuso perforante; ascis fusoideis, sessilibus, aparaphysatis, 55-60 \approx 12, octosporis, apice minuto, 2-foveolato: sporidiis distichis vel oblique monostichis, fusoideis, inæquilateralibus, 1-septatis, leniter constrictis, 15-18 \approx 5, 4- dein 2-guttatis, hyalinis, utrinque appendicula brevi, acuta, hyalina ornatis. 6569

Hab. in cortice ramulorum Salicis vitellinæ, Saintes Gallinæ (BRUNAUD). — Quum stroma sit indistinctum, ad *Gnomonia* genus nutat, cui fructificatione quoque accedit; at et cum *Diaporthe salicella* et *D. Spina* affinitas manifesta.

- *273. **D. Tetrastaga Asclepiadis** Ell. et Ev. in Bull. Torr. bot. Club. 1883, p. 98. — Stromatibus e maculis nigris superficiem caulium occupantibus formatis, 0,5 cm. longis, vel confluentibus, intus linea nigra limitatis; peritheciis sparsis, globosis, 0,25 mm. diam. in substantia caulis non omnino immersis; ostiolis obtusiusculis, cylindraceis, crassis, 250-300 μ . longis; ascis 35-40 \approx 9, p. sp.; sporidiis distichis, ellipsoideis, medio constrictis, 3-4 nucleatis, subobtusis, 10-12 \approx 3-4.

Hab. in caulibus emortuis *Asclepiadis tuberosæ*, Newfield Americæ borealis.

- *286. **D. Tetrastaga Lupini** Harkn. New Calif. Fungi p. 24. — Peritheciis aggregatis, ostiolis brevibus crassiusculis; ascis delicatis, fusoides, 15 \approx 4; sporidiis fusoides, 1-septatis, 4-guttatis, leniter constrictis; loculis sæpius inæqualibus, mox septo divisus, 55-60 \approx 9.

Hab. in ramis *Lupini arborei*, San Francisco Californiæ.

- *290. **D. Tetrastaga Geranii** Cooke et Harkn. in Grevillea XIV, p. 8. — Peritheciis gregariis, cortice immersis, sæpe nigro-limitatis, subglobosis, atris, initio tectis, dein rimoso-fissuratis; ostiolis brevibus, emergentibus; ascis clavatis; sporidiis lanceolatis, quadri-nucleatis, hyalinis, 15-16 \approx 4.

Hab. in caulibus *Geranii* in California (HARKNESS).

Sect. 5. Phæodidymæ Sacc.

PROTOVENTURIA Berl. et Sacc. in Soc. Veneto. — Trentina 1886 (Ety. a *protos* primus et *Venturia*). *Venturia* De Not. Atti VI, Riun. Scien. Ital. pag. 484. — Perithecia superficialia, maiuscula, carbonacea, fragilia, globoso-depressa, vertice setis rigidis, aterrimis, longiusculis vestita, basi setulis subtilioribus, numerosissimis, pallidis, subtortuosis, septatis cincta, poro rotundo, amplo pertusa. Ascii oblongi vel elliptici, basi abrupte attenuati, in pedunculum brevissimum desinentes, octospori. Paraphyses nullæ vel (verisimiliter) obsoletæ. Sporidia constricto-didyma, bilocularia, loculis subæqualibus, saturate fuliginis.

1. **Protoventuria Rosæ** (De Not.) Berl. et Sacc. in Soc. Ven. Trent. 1886, *Venturia Rosæ* De Notaris Atti VI Riun. Sc. It. p. 484, t. I, f. I, et Giorn. Bot. It. 1864, p. 332. — Ces. et De Not. Schema Sfer. It. pag. 51, *Pyrenophora Rosæ* Sacc. Syll. II, p. 285. — Peritheciis sparsis vel leuiter gregariis, globosis vel globoso-depressis,

majusculis, superficialibus, poro amplo pertusis, sursum setis rigidis, aterrimis, apice acutis vestitis, basique filamentis myceliis numerosissimis, 4 μ . diam., longis, sinuosis, simplicibus, sæpe 4-5 coalitis, septatis, pallidioribus cinetis; ascis amplis, saccatis, sursum obtusis, basi abrupte attenuatis atque in stipitem brevissimum desinentibus, tunica crassa præditis, 95-105 \approx 24-27, octosporis; sporidiis inordinatis vel distichis, majusculis, 28-32 \approx 13-15, uniseptatis, ad septum constrictis, loculis subæqualibus vel superiore, quidquam majore obtusioreque, saturate olivaceo-fuliginis.

Hab. in ramulis emortuis Rosæ alpinæ in Monte Cenisio Italiæ borealis.

DIDYMOSPHERIA Fuck. — Sacc. Syll. I, p. 701.

*1. *Didymosphæria conoidella* Sacc. et Berl. Misc. Myc. II, n. 26. 6573

— Peritheciis laxè gregariis, epidermide secedente nudatis, e globoso conicis, atris, sæpe concentrice, obsolete plicatis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo acutiusculo; ascis clavulatis, modicè stipitatis, paraphysatis, octosporis, 80-90 \approx 12; sporidiis distichis, ellipsoideo-oblongis, constricto-1-septatis, 15-18 \approx 6-7, fuliginis.

Hab. in ramulis emortuis Capparidis sarmentosæ, Teviot Australiæ. — A *Did. conoidea* sporidiis duplo fere longioribus mox distinguenda.

*16. *Didymosphæria sarmenti* (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6574

ria sarmenti Cooke et Harkness in Grevillea XIII, pag. 19. — Sparsa; peritheciis tectis, subglobosis, atris, levibus, demum applanatis; ostiolo brevi punctiformi; ascis cylindrico-clavatis; sporidiis ellipticis, uniseptatis, medio non constrictis, fuscis, 12 \approx 5.

Hab. in sarmentis Vitis in California (HARKNESS).

17. *Didymosphæria circinata* (Fuck.) Wint. in Hedwigia 1886, p. 23. 1577

Gnomoniella? circinata Sacc. Syll. I, p. 416. — Sporidia conglobata, oblonga, bicellularia, viridula, 9-10 \approx 3.

*18. *Didymosphæria serrulata* E. et M. in Journ. of Bot. 1885, p. 99. 6575

— Maculis dealbatis; peritheciis sparsis vel gregariis, epidermide nigrescente, demum ostiolo brevi, obtuso, erumpente perforata, tectis, lenticularibus $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; ascis cylindricis, paraphysibus filiformibus obvallatis, 100-112 \approx 10-12; sporidiis monostichis, hyalinis, primum 3-4-nucleatis dein brunneis et 1-septatis, 18-20 \approx 5-6, initio muco obvolutis.

Hab. in petiolis Sabalis serrulatæ, maculas pallidas efformans in Amer. bor.

19. **Didymosphæria Genistæ** Fuck. — Sacc. Syll. I, p. 705, Winter in Hedwigia 1886, p. 23. — Asci 43-48 \approx 12; sporidia 14-16 \approx 4-5. 2662
- * 19. **Didymosphæria Matthiolæ** (Fuck.) Berl. et Vogl. *Pleospora Matthiolæ* Fuck. in Reis. nach Nordpolarm. III, et Oud. Contr. Fl. Myc. Now. Seml. pag. 152, tab. II, fig. 7. — Peritheciis sparsis, punctiformibus, epidermide tectis, atris; ostiolo conico, obtuso, prominulo, atro; ascis maturis ovatis seu subglobosis, 30 \approx 24, immaturis basi contractis, superiore parte ovato-ventricosis, 54 \approx 24, octosporis; sporidiis stipatis, utrinque obtusis, antice parum obtusioribus crassioribusque, rectis, uniseptatis, 20 \approx 8, demum pallide fuscis. 6576

Hab. in foliis Matthiolæ nudicaulis, Nowaja Semlja.

- * 20. **Didymosphæria phyllogena** Winter. in Journ. of Myc. 1885, pag. 121. — Peritheciis in macula rotundato-angulata vel irregulari, fusca, lineâ atrâ cincta, determinata, usque 8 mm. diam., hypophylla immersis, epidermidem perforantibus, punctiformibus, tenuissime membranaceis, 100 μ . diam.; ascis clavatis, brevissime pedicellatis, 8-sporis, 50-70 \approx 9-11; sporidiis distichis, (rarius submonostichis), oblongis, inæquilateralibus, utrinque alternatis, bicellularibus, ad septum constrictis, fuscidulis, 14-16 \approx 5; paraphysibus crassis, cylindræis, septatis. 6577

Hab. ad folia delapsa Liriodendri tulipiferæ, Missouri. 2171

- * 21. **Didymosphæria fenestrans** (Duby) Winter in Hedwigia 1886, p. 24, Hue sec. cl. Winter ducendæ sunt *Didymella Epilobii* Sacc. Syll. I, pag. 556, *Gnomonia Epilobii* Sacc. Syll. I, pag. 561, et *Gnomonia fenestrans* Sacc. Syll. I, p. 562.
- * 22. **Didymosphæria Dryadis** (Fuck.) Berl. et Vogl. *Pleospora Dryadis* Fuck. Die 2.^o Deutsche Nordpolarf. II, 93. — Oudem. Contr. Fl. Myc. Now. Seml. p. 152, tab. II, fig. 6. — Peritheciis in foliorum aridorum, nondum delapsorum pagina superiori sparsis, punctiformibus, globoso-conicis, atris, demum subliberis, ostiolis perforatis; ascis oblongo-ovatis, oblique stipitatis, tunica crassa præditi, octosporis, 88 \approx 32; sporidiis subdistichis, oblongis, utrinque obtusis, uniseptatis, ad septum constrictis, loculis uniguttulatis, 30-32 \approx 12, primo hyalinis, demum flavo-fuscis. 6578

Hab. in foliis exsiccatis Dryadis octopetalæ, Nowaja Semlja.

- * 23. **Didymosphæria Hakeæ** Winter Contr. Fl. Myc. Lus. V, p. 14. 6579
— Peritheciis gregariis, sine macula, immersis, depresso-globosis, ostiolo punctiformi, prominulo instructis, membranaceis, fusco-atris,

0,25 mm. diam.; ascis oblongo-cylindræis, utrinque attenuatis, in stipitem brevem productis, 8-sporis, 55-75 \approx 9-11; sporidiis distichis, oblongis, supra medium uniseptatis et profunde constrictis, inæquilateralibus, utrinque acuminatis, binucleatis, fuliginæis, 15-17 \approx 4,5-5; paraphysibus filiformibus.

Hab. ad Hakeæ salignæ folia arida rarissime prope Coimbra Lusitaniæ (MOLLER).

- *28. **Didymosphæria lusitanica** (Niessl) Berl. et Vogl. *Phorcys lu-* 6580
sitanica Niessl Contr. Fl. Myc. Lus. p. 15. — Peritheciis sparsis, omnino immersis, clypeatis, majusculis, 0,4-0,5 mm. diam., globosis, atris, ostiolo minuto; ascis elongato-cylindricis, pedicellatis, membrana interna apice valde incrassata, 8-sporis, 120-140 \approx 10-12; sporidiis monostichis, oblongis, utrinque rotundatis, plerumque curvatis vel quasi medio infractis, uniseptatis et valde constrictis, guttulis binis, atro-fuscis, 18-22 \approx 8-10; paraphysibus tenuibus, apice ramosis; ascis sporidiisque ut in *Delitschia*, sed peritheciis profunde innatis, tectis.

Hab. in culmis aridis Donacis arundinacæ, Galla prope Figueira da Foz Lusitaniæ (MOLLER).

- *29. **Didymosphæria arundinicola** Bizz. Fung. Ven. novi v. crit. p. 2, 6581
 t. II, f. 2. — Peritheciis minutissimis, subsuperficialibus, ostiolatis; ascis oblongo-clavatis, 100-110 \approx 21-23, octosporis; sporidiis bilocularibus, non vel vix constrictis, oblongo-ellipsoideis, utrinque hyalino-apiculatis, 26-28 \approx 12 (sine apiculo), initio hyalinis, biguttatis, dein fuliginæis.

Hab. in culmis exsiccatis et putridis Arundinis Donacis in Horto bot. patavino Ital. bor.

- *30. **Didymosphæria rhytidosperma** Speg. Fungi Guar. Pug. I, n. 223. 6582
 — Peritheciis sparsis v. laxissime subseriatis, epidermide areolatim nigrefacta tectis eique arcte adnatis, prominulis, hemisphæricolenticularibus, majusculis, 1-1,2 mm. diam., ostiolo minuto, umbonatum, vix epidermidem perforante, non exerto donatis, crassiuscule membranaceo-carnosulis, sordide albescenti-ceraceis, circa ostiolum fuscescentibus sæpeque coriacellis, contextu prosenchymatico-fibroso, subradiante, parum distincto, albo-fuscescente; ascis cylindræis, apice obtusissime rotundatis, postice breve attenuato-stipitatis, 120-130 \approx 7-8, jodii ope nulla, paraphysibus gracillimis, obscure septulatis obvallatis, 8-sporis; sporidiis recte monostichis, utrinque acute rotundatis, rectis, medio constrictis; loculis æqualibus, non v. 1-2 crasse guttulatis, episporio pellucido, pulchre fuli-

gineo, longitudinaliter dense rugoso-striatis, rugis simplicibus, rectis v. vix helicoideis.

Hab. ad culmos dejectos emortuos Bambusaceæ ejusdam in dumetis prope Carapegua Bras. — Species pulcherrima ac distinctissima, characteribus peritheciis subnectriacei, facile ut novum genus inter *Nectriaceas* adhibendum.

- *31. **Didymosphæria Spatharum** Wint. in Hedwigia 1885. — Peritheciis sparsis, immersis, depresso-globosis, ostiolo late conoideo, obtuso præditis, erumpentibus, atris, membranaceis, matricem tegentem parum nigrificantibus, 240-270 μ . latis; ascis cylindraceutis, deorsum in stipitem brevem attenuatis, 8-sporis, 45-52 \approx 7; sporidiis oblique mono-vel partim subdistichis, oblongis, utrinque rotundatis, medio vel supra medium uniseptatis, non vel perparum constrictis, fuliginosis, 9-10 \approx 3,5-4; paraphysibus gracilibus, filiformibus. 6583

Hab. in spathis aridis Bobartiæ spathaceæ, in monte Tabulari Promont. Bon. Spei (Mac-OWAN).

- *32. **Didymosphæria Typhæ** Peck 38 Rep. Stat. Mus. p. 104. — Peritheciis minutis, punctiformibus, subglobosis, epidermide ostioli minute papillatis perforata tectis; ascis cylindraceutis, 62-85 \approx 8-10; sporidiis oblongis vel ellipticis, monostichis uniseptatis, non vel vix septo constrictis, 10-15 \approx 5-6, coloratis; paraphysibus filiformibus. 6584

Hab. ad basim foliorum emortuorum *Thyphæ latifoliæ*, Guilderland Amer. bor.

- *34. **Didymosphæria circinans** Harkn. New Calif. Fungi p. 24. — Hypophylla; peritheciis gregariis in maculis circularibus, 1-6 mm. diam., tectis, circa ostiola matricem maculantibus; ascis octosporis, cylindraceutis, sessilibus, 66 \approx 6, paraphysibus filiformibus cinctis; sporidiis ovoideis vel oblongis, uniseptatis, leniter constrictis, olivaceo-brunneis, 5-7 \approx 3-4. 6585

Hab. in foliis *Eucalypti Globuli* in California.

- *50. **Didymosphæria Cupula** (Ell. et Ev.) Berl. et Vogl. *Sphæria cupula* Ell. et Ev. in Torr. bot. Club. 1883, p. 90. — Peritheciis sparsis, innatis, epidermide nigrescente, ostiolo papilliformi excepto, tectis, primum convexo-hemisphæricis, dein siccitate collapsis; ascis 75 \approx 7; sporidiis ellipsoideis, brunneis, uniseptatis, monostichis, 9,5-11,5 \approx 4,5-5. 6586

Hab. in foliis adhuc pendulis et in ramulis *quercinis*, Newfield Amer. bor.

- * 56. **Didymosphæria Ceanothi** (Cooke et Harkn.) Berl. et Vogl. *Sphur-* 6587
ria Ceanothi Cooke et Harkn. in Grevillea XIII, p. 19. — Te-
 cta, sparsa; peritheciis globoso-applanatis, atris, breviter papilla-
 tis; ascis amplis, clavatis, octosporis; sporidiis ellipticis, unisepta-
 tis, medio constrictis, atro-fuscis, 35 \approx 15.

Hab. in sarmentis *Ceanothi* in California (HARKNESS).

- * 60. **Didymosphæria Bryonthæ** (Arnold) Winter in Hedw. 1886, p. 25, 6588
Endococcus Bryonthæ Arnold in Lichenol. Fragment. XVI, p. 26,
 tab. II, fig. 15, in Flora 1874. — Peritheciis gregariis, minutis,
 subglobosis, valde convexis, prominulis, vertice pertusis; ascis fere
 cylindræis (sec. icon. clavatis, deorsum stiptiformi-attenuatis),
 8-sporis; paraphysibus distinctis, tenuibus capillaribus; sporidiis
 inordinatis, oblongis vel clavatis, bicellularibus, haud vel parum con-
 strictis, pallide fuscidulis, 12-16 \approx 4-5.

Hab. in disco apotheciorum *Lecanoræ subfuscæ* var. *bryon-
 thæ* in Germania.

- * 61. **Didymosphæria microstictica** (Leighton) Winter in Hedw. 1886, 6589
 p. 25, *Verrucaria microstictica* Leight. Lichen. Flora of Great-
 Britain. Edit. II, p. 493. — Peritheciis minutissimis, plus minus-
 ve immersis, globosis, vertice plano-convexo, pertuso, fusco-atris;
 ascis cylindricis, breve stiptatis, 8-sporis, 78-88 \approx 10; sporidiis
 mono-vel subdistichis, elliptico-oblongis, bicellularibus, medio con-
 strictis, atris, opacis, 14 \approx 7; paraphysibus numerosis, filiformibus,
 subramosis.

Hab. in thallo *Acarosporæ fuscatae* et *A. cervinæ* in
 Germania et Britannia.

- * 62. **Didymosphæria (?) Sauteri** (Körber) Winter in Hedw. 1886, p. 25, 6590
Polycoccum Sauteri Körber Parerga p. 470. — Peritheciis mi-
 nutissimis, conferte stipatis, maculas subatras formantibus, demum
 sæpe confluentibus, semiimmersis, globosis, ostiolo umbonato, fusco-
 atris; ascis cylindræis, substiptatis, 8-sporis, 100 \approx 15-16; spo-
 ridiis monostichis, dacryoideis, cellula superiori multo latiori lon-
 giorique, fuscis, 16-19 \approx 9-10,5.

Hab. in *Stereocaulo condensato* et *S. alpino* atque in
Lecidea fumosa in Germania.

- * 63. **Didymosphæria Sporastatiæ** (Anzi) Winter in Hedw. 1886, p. 25, 6591
Polycoccum Sporastatiæ Arnold in Flora 1874, p. 144, tab. II,
 fig. 9, *Tichothecium Sporastatiæ* Anzi Neosymbolæ pag. 17. —
 Peritheciis sparsis, fere omnino immersis, globosis, vertice tantum
 parum convexo pertusoque prominulis, atris; ascis oblongis, 17 p.

crassis; sporidiis distichis, oblongo-clavatis, inæqualiter didymis, medio parum constrictis, fuscis, 17-23 \approx 7-8.

Hab. in thallo Sporastatiæ cinereæ in Germania.

TICHOTHECIUM Flotow. in Wint. Hedw. 1886, p. 15 (Etym. *teichos* murus et *thecium* pro perithecio). — Perithecia plus minusve immersa, demum emergentia, minuta, corneo-carbonacea, atra, poro simplici pertusa. Paraphyses mucosæ, interdum indistinctæ vel nullæ. Asci 4-8-vel polyspori. Sporidia bi-vel quadricellularia, fusca.

I. Asci 4-8-spori; sporidia uniseptata.

1. **Tichothecium gelidarium** (Mudd.) Berl. et Vogl. *Sphæria gelidaria* 6592
Mudd. Manual of Brit. Lichens p. 130. — Peritheciis nigris, maculiformibus, sparsis, nucleo albo faretis; paraphysibus distinctis, laxis, flexuosis, mucosisque; ascis brevibus, cylindraceis, 4-sporis, ad utramque extremitatem sporidiorum constrictis; sporidiis subrotundis vel late oblongis, irregularibus, protoplasmate obscure brunneo vel fuligineo faretis, indistincte bilocularibus, 10 \approx 6.

Hab. in thallo Squamariæ gelidæ in Britannia.

2. **Tichothecium perpusillum** (Nylander) Arnold Lichenol. Fragm. 6593
XVI, p. 27 et in Wint. Hedw. 1886, p. 17, *Endococcus perpusillus* Nyl. Exposit. Pyrenoc. p. 64. — Peritheciis minutis, sessilibus, fere globosis, ostiolo haud impresso, indistincte pertuso, atris, opacis, scabris, 0,1-2 mm. diam.; ascis elongato-clavatis vel fusiformibus, 8-sporis; sporidiis ellipticis, medio haud constrictis, sæpe parum curvatis, utrinque attenuatis rotundatisque, dilute fuscis, 15-21 \approx 6-7.

Hab. in *Aspicilia cinerea* et *A. gibbosa* in Germania et Britannia. — Teste Cl. Leighton, Lichen. of Great Brit. Edit. III, pag. 496, perithecia sunt minutissima, immersa, depresso globosa, atra; sporidia octona, oblonga, fusca, bicellularia, 14-19 \approx 6-7.

4. **Tichothecium Stigma** Körber Parerga Lichenol. p. 468 et Wint. in 6594
Hedw. 1886, pag. 16. — Peritheciis minutissimis, punctiformibus, immersis, demum parum prominulis, atris, opacis, ostiolo indistincto, supra thallum dispersis; ascis clavatis vel fusiformi-clavatis, 8-sporis; sporidiis ellipticis, utrinque acutiuseculis, medio sæpe subconstrictis, bicellularibus, interdum cellula superiori parum majori, fuligineis vel dilute rufo-fuscis, 14-20 \approx 5-6.

Hab. in thallo *Rhizocarpi geographici* et *Psoræ lamprophoræ* in Germania.

5. **Tichothecium macrosporum** Hepp. in litt. sec. Arnold Lichenol. 6505
Ausfl. III, p. 960, et Wint. in Hedw. 1886, p. 17. — Peritheciis initio omnino immersis, demum vertice prominulis, globosis, atris, poro distincto pertusis, circ. $\frac{1}{10}$ mm. diam., plerumque gregariis; ascis oblongo-clavatis, deorsum longe attenuatis, 8-sporis, 60-65 \approx 17-21; sporidiis subdistichis, elliptico-oblongis, utrinque attenuato-rotundatis, uniseptatis, haud vel vix constrictis, fuscis, 16-24 \approx 6-8.

Hab. in thallo *Rhizocarpi geographici* et *R. alpicoli* in Germania.

6. **Tichothecium Arnoldi** (Hepp.) Körber Parerga Lichenol. p. 469 et 6506
in Hedw. 1886, p. 16. — Peritheciis minutissimis, punctiformibus, confertissime stipatis, immersis, globosis, ostiolo indistincto, atris, substantia molliuscula, viridi-brunnea faretis; ascis breviter clavatis; sporidiis 6-3, soleæformibus, bicellularibus, cellula superiore majore, viridi-fuscis, 8-11 \approx 3-4.

Hab. in thallo *Urceolarie scruposæ* in Germania.

7. **Tichothecium calcaricolum** (Mudd.) Arnold Lichenolog. Ausfl. XI, 6507
p. 521 et Wint. in Hedw. 1886, p. 16, *Microthelia calcaricola* Mudd. Manual p. 306. — Peritheciis media magnitudine, irregulariter sparsis, sessilibus vel basi immersis, globosis, poro submagno pertusis, atris; ascis clavato-subventricosis, 8-sporis; sporidiis elliptico-oblongis, bicellularibus, fuscis, 19-20 \approx 6; paraphysibus gelatinosis.

Hab. in thallo *Aspicillie calcareæ*, *A. cinereæ* et *A. gibbosæ* in Germania et Britannia — Sec. Arnold sporidia 15-18 μ . tantum longa sunt. — *var. Sendtneri* Arnold Lichenol. Ausfl. XI, p. 37: peritheciis hemisphaericis, prominulis, atris; sporidiis utrinque obtusis, fuscis, bicellularibus, 15-18 \approx 6-8, octonis. In thallo *Polyblastie Sendtneri* in Germania.

8. **Tichothecium gemmiferum** (Tayl.) Körb. Parerga Lichen. p. 468, 6508
et Wint. in Hedw. 1886, pag. 16, *Verrucaria gemmifera* Taylor in Mackay, Flora hibern. II, p. 95, *Microthelia propinqua* Körb. System. p. 374. — Peritheciis sparsis, immersis, minutissimis, globosis, vertice umbilicato, demum collapsis, poro simplici pertusis, opace atris, 0,1 mm. diam.; ascis clavatis, crasse tunicatis, 8-sporis, 30-36 \approx 10-12; sporidiis ellipticis vel elliptico-oblongis, obtusis, bicellularibus, plerumque haud vel perparum constrictis, fuscis, 8-12 \approx 3-4; paraphysibus coalitis.

Hab. in thallo crustaceo lichenum variorum in Germania.

9. **Tichothecium Complanatæ** (Arnold) Wint. in Hedw. 1886, p. 17, 6599
Endococcus Complanatæ Arnold Lichenol. Ausfl. in Tirol. X, p. 13.
 — Peritheciis minutissimis, punctiformibus, parum prominulis, atris; sporidiis octonis, oblongis, fusiformibus, utrinque plus minus attenuatis, rectis vel parum curvatis, bicellularibus, fuscis, 15-17 \approx 4-5; paraphysibus nullis.

Hab. in thallo Lecanoræ complanatæ in Germania.

10. **Tichothecium squamarioides** (Mudd.) Wint. in Hedw. 1886, p. 17, 6600
Sphæria squamarioides Mudd. Manual of Brit. Lich. p. 130, *Polycoccum squamarioides* Arnold Lichenol. Fragm. XVI, p. 29.
 — Peritheciis aggregatis, acervulos minutos formantibus, punctiformibus, atris, nucleo albo-cinereo; ascis elongato-oblongis vel oblongo-subclavatis, 8-sporis; paraphysibus indistincte diffluentibus, mucosis; sporidiis obtuse fusiformibus vel fusiformibus, bicellularibus, interdum medio subconstrictis, obscure olivaceis vel sub-atris, 8,5-11 \approx 3-4.

Hab. in thallo Placodii gelidi in Germania et Britannia.

II. Asci polyspori; sporidia uniseptata.

11. **Tichothecium nanellum** (Ohlert) Arnold, Lichenol. Fragm. XVI, 6601
 p. 27 in Flora 1874 et Wint. in Hedw. 1886, p. 17, *Endococcus nanellus* Ohlert Lusaum. Lich. Preuss. pag. 44. — Peritheciis nigro-fuscis, globosis, poro pertusis, 90-105 μ . diam., inter squamulas thallinas et tomentum *Stereocauli tomentosi* arescentibus; ascis clavatis, apice acuminatis, polysporis, 30 \approx 12; sporidiis oblongis, utrinque acutis, continuis vel bicellularibus, fuscis.

Hab. in Stereocaulo tomentoso in Germania.

12. **Tichothecium cerinarium** (Mudd.) Berl. et Vogl. *Sphæria cerinaria* Mudd. Man. of Brit. Lich. p. 136. — Peritheciis minutis, punctiformibus, semiimmersis, atris, isolatis, 10-12 disco apotheciorum insidentibus, nucleo mucoso, pallido faretis; paraphysibus nullis; ascis non visis; sporidiis numerosis, oblongis, uniseptatis, medio leniter constrictis, pallide luteis, 4 \approx 2.

Hab. parasitice in apotheciis *Callopismatis cerini* in Britannia.

III. Asci 4-8-spori; sporidia triseptata.

13. **Tichothecium erraticum** Mass. Symmicta Lich. p. 94 et Wint. in Hedw. 1886, p. 15, *Endococcus erraticus* Nyland. Lichenes Scandinaviae p. 283. — Peritheciis semiimmersis, globosis, ostiolo indi-

stincto, impresso, nitide atris, circ. 0,05 mm. diam.; ascis initio oblongis, subcylindrico-clavulatis, demum in parte inferiori ventricosis, fere obovoideis, polysporis; sporidiis late ellipticis vel subglobosis, medio haud constrictis, bicellularibus, fuscis, $3,5 \approx 2,5$.

Hab. in thallo crustaceo Lichenum variarum in Germania.

14. **Tichothecium pygmæum** Körb. Parerga Lichen. p. 467 et Wint. in 6604

Hedw. 1886, p. 15. — Peritheciis sparsis, totis vel pro maxima parte immersis, plerumque vertice parum impresso, pertuso tantum emergentibus, globosis, atris, subnitidis, 0,1 mm. diam.; ascis late clavatis, sæpe parum ventricosis, deorsum stipitiformibus, attenuatis, vertice late rotundatis, polysporis, $47-52 \approx 12-14$; sporidiis inordinatis, ellipticis, interdum subconstrictis, bicellularibus, fuscis, $6-8 \approx 3-3,5$.

Hab. in tallo lichenum variarum saxicolarum in Germania.

— *var. ventosicola* (Mudd.) Wint. in Hedw. 1886, p. 15, *Microthelia ventosicola* Mudd. Manual. p. 307. Vix diversa a forma normali: peritheciis semiimmersis; sporidiis $8-9 \approx 5$. In Hæmatomate ventoso parasitans in Germania. — *var. grandiuscula* Arnold Lichen. Ausfl. V, p. 532 et Wint. in Hedw. 1886, p. 15: peritheciis 2-usque fere 3-plo majoribus quam in forma normali; sporidiis $6-9 \approx 3-4$. In speciebus variis Lecideæ, Lecanoræ etc. in Germania. — *var. microcarpa* Anzi Lichen. Ausfl. XIV, pag. 477: peritheciis, ascis sporidiisque minoribus; sporidiis 20 in quoque asco, $5-6 \approx 2-3$. In fructibus Callopismatis aurantiaci in Germania. — *var. ecatonspora* Ausfl. Neosymb. p. 16, et Wint. in Hedw. 1886, p. 15: peritheciis numerosis, gregariis; sporidiis $9 \approx 3$. Inter apothecia Rinodinæ Bischoffii in Germania.

15. **Tichothecium leucomelarium** (Mudd.) Berl. et Vogl. *Sphæria leu-* 6605

comclaria Mudd. Man. of Brit. Lich. p. 105. — Peritheciis minutis, semiimmersis, subsphæroideis; ostiolis leniter depressis, minutis, vix prominulis, nucleo pallido; paraphysibus gracilibus, filiformibus; ascis elongato-cylindræcis, medio inflatulis, 4-sporis; sporidiis oblongis vel obtuse fusiformibus, 3-septato-constrictis, primo pallide brunneis dein obscure brunneis, $18 \approx 5$.

Hab. parasitice in thallo Borreræ leucomelæ et B. ciliaris in Britannia.

16. **Tichothecium rimosicolum** (Leight.) Arnold in Flora 1861, p. 678, 6606

Xenosphaeria rimosicola Körb. Parerg. Lich. p. 467. — Peritheciis numerosis, sparsis confertisve, plus minusve immersis, fere globosis, vertice applanato, ostiolo impresso pertusoque, 0,2-3 mm.

diam.; ascis ovato-clavatis vel subventricosis, 8-sporis; paraphysibus indistinctis; sporidiis ellipticis vel elliptico-oblongis, plerumque utrinque acutatis, 4-cellularibus, ad septa subconstrictis, dilute fuscidulis, 13-16 \approx 5-6.

Hab. in thallo *Rhizocarpi* subconcentrici, *R. petræi*, *Siegortia* calcareæ variarumque lichenum aliarum in Germania.

17. **Tichothecium decolorans** Rehm Ascom. Diagnos. n. 490 et Wint. 6607
in Hedw. 1886, pag. 18, *Phycospora decolorans* Rehm. Exsicc. n. 490. — Peritheciis gregariis, thalli superficie, plus minusve dealbata, insidentibus, punctiformibus, conoideis, atris, glabris; ascis clavatis, 8-sporis, 60 \approx 8; sporidiis ellipticis, obtusis, 2-4-cellularibus, cellulis mediis guttulis magnis præditis, ad septa constrictis, rectis, 12 \approx 4; paraphysibus nullis.

Hab. in thallo *Biatoræ* decolorantis in Germania.

18. **Tichothecium peregrinum** (Flotow) Wint. in Hedw. 1886, p. 18, 6608
Verrucaria peregrina Flotow in Botan. Zeitg. 1885, n. 8, *Phycospora peregrina* Arnold in Lichenol. Ausfl. XX, p. 355. — Peritheciis punctiformibus, atris, thallo immersis, vertice tantum prominulis; ascis oblongis, 8-sporis; sporidiis elongato-oblongis, 4-cellularibus, ad septa parum constrictis, sæpe guttulis 4-præditis, fuscis, 15 \approx 5; paraphysibus nullis.

Hab. in thallo *Lecanoræ* *Bockii* in Germania.

SOROTHELIA Körb. Parerga lichenol. p. 471 et Wint. in Hedwigia 1886, pag. 10 (Etym. a *soros* et *thelo* papilla). — Perithecia aggregata, soros rotundatos vel irregulares, maculiformes formantia, superficialia, carbonacea, atra; asci 8-sporei, paraphysibus obvallati; sporidia didyma, fusca.

1. **Sorothelia confluens** Körber. Par. Lich. p. 471, Wint. in Hedw. 6609
1886, p. 10. — Peritheciis minutis, sessilibus, globosis hemisphæricis, aterrimis, conspurcatis, mox lata basi in soros irregulares confluentibus indeque deformibus; sporidiis in ascis cylindræo-clavatis, octonis, mediocribus, soleæformibus, biguttulatis, diam. 3-5-plongioribus, fuscis.

Hab. in thallo *Phlyctidis* *argenæ* in Silesia.

PARODIELLA Speg. — Sacc. Syll. I, p. 717.

- *1. **Parodiella Banksiæ** Sacc. et Bizz. — Peritheciis hypophyllis, dense 6610
gregariis, superficialibus, globulosis, nigris, punctiformibus, 100-110

μ . diam., subastomis, glabris, basi hyphulis, paucis cinctis; ascis tereti-clavulatis, subsessilibus, apice truncatis, octosporis, $50-55 \approx 10$; paraphysibus bacillari-clavulatis; sporidiis distichis, fusoido-oblongis, constricto-1-septatis, $14-15 \approx 4-5$, olivaceo-fuscis.

Hab. in p. inf. foliorum subviventium *Banksiæ marginatæ* in New-South-Wales Australiæ. — Mycelium fere nullum, ergo non *Dimerosporium*.

- *2. **Parodiella melioloïdes** (B. et C.) Winter in Hedwigia 1886 p. 107 1021
et 207, *Sphæria melioloïdes* B. et C. Fungi from Cuba n. 849, *Rossellinia melioloïdes* Sacc. Syll. I, pag. 276, *Nectria megalospora* Sacc. et Berl. in Rev. Myc. 1885, p. 157. — Perithecia globosa, astoma, minuta, $\frac{1}{6}-\frac{1}{5}$ mm. diam., pruina æmœne cinuabarina tecta, 6611
in mycelio rufo-fuligineo, septato, ramoso sita; asci magni, centro inflati, sursum leniter rotundati, crasse tunicati, in stipitem brevissimum desinentes, aparaphysati, $120-130 \approx 35-45$, octospori; sporidia oblongata, apice rotundata, didyma, medio parum constricta, loculo superiore longiore, $40-42 \approx 12-15$, diu hyalina vel luteola, granulosa, demum flavo-brunneola.
- *3. **Parodiella cæspitosa** Winter in Hedwigia 1885, p. 256. — Peritheciis epi-rarius hypophyllis, superficialibus, cæspites densissimos, hemisphæricos, 1-2 mm. latos formantibus, subglobosis, vertice depressis vel demum impressis et parum umbilicatis, rugulosis, atris, opacis, 0,4 mm. latis; ascis late clavatis, vertice rotundatis vel parum attenuatis, deorsum longe stipitatis, 8-sporis, $78-96 \approx 23-26$; sporidiis conglobatis, oblongo-ellipticis, utrinque rotundatis, sæpe inæquilateralibus, uniseptatis, non vel vix constrictis, dilutissime luteo-fuscidulis, $22-28 \approx 9-9,5$.

Hab. ad folia viva *Compositæ* scandentis adhuc indeterminatæ, in Brasilia (E. ULE).

- *4. **Parodiella paraguayensis** Speg. Fungi Guar. Pag. I, n. 226. — 6612
Peritheciis epiphyllis, densissime aggregato-constipatis, crustam atram, granulosa, superficiem foliorum obtegentium efficientibus, globulosis, $200-225 \mu$. diam., atris, glabris, vix rugulosis, ostiolo minutissime papillulato donatis, crassiuscule membranaceo-coriaceis, contextu minute parenchymatico (cellulis 3-4 μ . diam.) parum distincto, olivaceo-fuligineo, subopaco; ascis cylindraeco-clavatis, apice rotundato-truncatis, crasse tunicatis, postice breviter crasseque stipitatis, $80-85 \approx 14$; paraphysibus densissimis, filiformibus obvallatis, 8-sporis; sporidiis recte vel oblique distichis, ellipticis, inæquilateralibus, utrinque obtusiuscule rotundatis, $17-18 \approx 7,5-8$,

1-septatis, constrictis, loculis subæqualibus, medio subcoarctatulis, 1-2-guttulatis, obscure fuliginis.

Hab. ad folia viva *Evolvuli* speciei cujusdam in silva subvirginea Caa-guazû Bras.

AMPHISPHERIA Ces. et De Not. — Sacc. Syll. I, p. 718.

1. **Amphisphæria applanata** (Fr.) Ces. et De Not. Sacc. Syll. I, p. 718, 2714

Winter in *Hedwigia* 1886, p. 102. — Perithecia demum collapsa, concentrice rugulosa; asci e basi ampliata sursum oblongati, breve pedicellati, 8-spori, 85-105 \approx 19-21; sporidia subdisticha, loculo superiori majori, ad medium valde constricta, utrinque rotundata; paraphyses filiformes.

*5. **Amphisphæria decorticata** (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6613

ria decorticata Cooke et Hark. in *Grevillea* XIII, p. 19. — Primitus seriata, intra fibrillas corticis nidulans, demum subsuperficialis; peritheciis erumpentibus, subserialibus sparsisve, subglobosis, atris, opacis, vix $\frac{1}{2}$ mm. diam.; ascis cylindraceutis, octosporis; sporidiis ellipticis, uniseptatis, medio arcte constrictis, cellulas subglobosas efformantibus, kete fuscis, 18 \approx 9.

Hab. in ramis decorticatis *Quercus* in California.

*7. **Amphisphæria heteromera** Briard et Sacc. in *Rev. Myc.* 1885, 6614

n. 12. — Peritheciis subsparsis e basi insculpta superficialibus, globosis, papillatis, carbonaceis, atris nitidulis; ascis cylindraceutis, subsessilibus, 104-108 \approx 18-20, octosporis, filiformi-paraphysatis; sporidiis subdistichis, oblongo-fusoideis, rectiusculis, utrinque subattenuatis, infra medium septatis constrictisque, fuliginis, loculo infero minore.

Hab. in trunco decorticato *Carpini* prope Troyes Galliæ (BRIARD).

*51. **Amphisphæria Wellingtoniæ** (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6615

ria Wellingtoniæ Cooke et Hark. in *Grevillea* XIII, pag. 19. — Gregaria, immersa; peritheciis atris, elongato-compressis, hysteroideis, striatis, opacis, 150-180 \approx 80, poro pertusis; ascis cylindraceutis, 8-sporis; sporidiis ellipticis, uniseptatis, fuscis, vix constrictis, loculo utroque uniguttulato, 12-14 \approx 8.

Hab. in ligno dealbato *Sequojæ* in California (HARKNESS).

*21. **Amphisphæria anceps** Sacc. et Briard. *Miscell. Myc.* I, n. 2207, 6616

— Peritheciis ligno striolatum nigricato subimmersis, globulosis, compressiusculis, minutis, $\frac{1}{4}$ mm. diam., minute papillatis; ascis tereti-clavulatis, stipitatis, apice obtusis, octosporis, 63 \approx 10, p. spo-

rif.; sporidiis oblique monostichis, 1-septatis, lenissime constrictis, 9-11 \approx 5-6, biguttatis, olivaceis.

Hab. in ramis decorticatis, emortuis Populi, prope Troyes Galliæ (BRIARD). — Hinc *Didymosphæriæ* (Microtheliæ), hinc *Valsariæ* (Phæospermati) nutat, ideoque anceps *Amphisphæriæ* species.

- * 35. **Amphisphæria aquatica** (Ell. et Ev.) Berl. et Vogl. *Sphæria* 6617
aquatica Ell. et Ev. in Torr. bot. Club. 1884, p. 42. — Peritheciis sparsis, membranaceis, 250 μ . diam., semiimmersis, subglobosis vel parum elongatis; ostiolo papilliformi; ascis linearibus, 150 \approx 6-8, copiose paraphysatis; sporidiis recte monostichis, oblongis, uniseptatis, septo leniter constrictis, rectis vel leniter curvulis, primum pallidis, crasse binucleatis, demum obscure brunneis, 15-20 \approx 6.

Hab. in fundo situlæ juniperinæ diu aqua irrorato, Newfield Amer. bor.

- * 41. **Amphisphæria dothideospora** Cooke et Harkn. in Grevillea XIV, 6618
 p. 9. — Gregaria; peritheciis emergentibus, epidermide nigrefacta tectis, conico-convexis, nitidis, ostiolo papillato; ascis subclavatis, octosporis; sporidiis subellipticis, inæqualiter uniseptatis, constrictis, fuliginis, 20 \approx 12.

Hab. in caule Mimuli in California (HARKNESS).

- * 49. **Amphisphæria Hypoxylon** E. et E. in Journ. of Myc. 1886, p. 41. 6619
 — Peritheciis dense gregariis, superficialibus, globosis, $\frac{1}{4}$ mm. diam., rugosis, atris, pruinosis, membranaceo-carbonaceis; ostiolo vix prominulo, ascis clavato-cylindraceis, 55-65 \approx 10-12, copiose paraphysatis; sporidiis oblique monostichis, ovato-ellipticis, brunneis, uniseptatis, 8-9 \approx 5.

Hab. parasitice in Hypoxyli effusi stromatibus, Plaquemines Amer. bor. (REV. A. B. LAGLOIS).

RHYNCHOSTOMA Karst. — Sacc. Syll. I, p. 730.

- * 2. **Rhynchostoma tinctum** (Ell. et Ev.) Berl. et Vogl. *Ceratostoma* 6620
tinctum Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, p. 5. — Peritheciis erumpentibus, superficialibus, ovoideo-globosis, $\frac{1}{6}$ mm. diam., rugulosis, ostiolatis; ostiolis filiformibus, $\frac{2}{3}$ - $\frac{3}{4}$ mm. longis, sublevibus, subinde sursum parum dilatatis; apice globulo sporidiorum coronato; ascis subcylindraceis, circiter 30 \approx 7, subsessilibus, paraphysibus filiformibus obvallatis; sporidiis distichis, oblongo-ellipsoideis, subacutis, uniseptatis, 6-7 \approx 2,5-3.

Hab. in ligno emortuo *Aceris macrophylli*, Klikitat Am. bor. — Affine *R. minuto*.

NEOPECKIA Sacc. in Peck Torr. bot. Club. 1883, p. 127 (Etym. a *neos* novus et a cl. *Peck*). — Perithecia carbonacea, subfragilia, superficialia, sed subiculo copioso, effuso semiimmersa, globosa, papillata, denique latiuscule pertusa. Asci octospori, elongati, copiose paraphysati. Sporidia didyma fuliginea. — A genere *Amphisphæria* subiculi copiosi præsentia differt, ab *Enchnosphæria* et *Eriosphæria* sporidiis perfecte didymis, fuligineis recedit. — Genus clarissimo mycologo C. H. Peck speciei typicæ illustratori jure meritoque dicatum.

1. **Neopeckia Coulteri** (Peck) Sacc. in Torr. bot. Club. 1883, p. 127, 6621
Sphæria Coulteri Peck in Hayden's U. S. Geol. Survey, 1872, p. 792, *Enchnosphæria* (?) *Coulteri* Sacc. Syll. II, p. 207, *Lasio-sphæria acicola* Cooke in Grevillea 1880, pag. 87. *Amphisphæria* (?) *acicola* Sacc. Syll. vol. I, p. 727. — Peritheciis 0,5 mm. diam., demum papillâ amissâ, perforatis; ascis 130-140 \approx 14-15, p. sp., paraphysibus copiosis, filiformibus; sporidiis utrinque obtusiusculis, 20-28 \approx 9-10, intense fuligineis.

Hab. in foliis Pini in montibus Rocky Amer. bor. — Habitu externo *Enchnosphæriæ Pinetorum* peraffinis, sed fructificatio prorsus aliena.

RHYNCHOMELIOLA Speg. Fungi Guar. Pug. I, p. 283 (Etym. *rhynchos* rostrum et *Meliola*, ob perithecia eximie rostrata). — Perithecia atra, parvula, globulosa, sursum in ostiolum cylindraceum, prælongum, obtusum producta, subiculo concolori, tomentosulo, conidiifero, phyllogeno insidentia; asci cylindraceo-clavati, aparaphysati, 8-spori; sporidia elliptica, didyma, chlorino-olivacea. — Genus *Dimerosporio* affine, ostioli præsentia recedens, ad *Capnodium* pluribus characteribus vergens; ab utroque vero satis distinctum est, et melius sub *Sphæriacæis* militare videtur.

1. **Rhynchomeliola pulchella** Speg. Fungi Guar. Pug. I, n. 224. — 6622
 Mycelio hypophyllo, cum tomento foliorum intertexto, fusco v. olivascenti-atro, maculas plus minusve elatas, 1-15 mm. diam., indeterminatas, sæpe confluenti-evanescentes, irregulares efficiente, ex hyphis sterilibus, repentibus, dense intricatis, fuligineis, parce septatis, subcrassiusculis, 4-6 μ crass., hinc inde hyphis fertilibus, conidiiferis, erectis ornatis composito; peritheciis in mycelio nidu-

lantibus et absconditis, globulosis, parvulis, 100-110, membranaceis, contextu minute parenchymatico, fuligineo-atro, glabris, levibus, superne in ostiolum praelongum, subcylindraceum, 400-520 \approx 25-30, merenchymaticum, apice truncato-rotundatum, in senectute fimbriato-dehiscens, pallidius productis; ascis cylindraceo-clavatis, apice rotundatis, basi brevissime attenuato-stipitatis, 24-28 \approx 5, subdiffluentibus, aparaphysatis, 8-sporis; sporidiis distichis, ellipticis, rectis v. vix inaequilateralibus, utrinque acutato-obtusatis, medio 1-septatis, non constrictis, 6-7 \approx 2, primo hyalinis, dein dilute olivaceis.

Hab. ad folia viva Peijøe Sellovianae in silva subvirginea Caà-guazù Bras. — Hyphae conidiiferae erectae, rectae, longiusculae, 240-458 \approx 6-6,5, parce septatae, fuliginiae, apice pallidiores, acrosporaе, monospermae, simplices; conidia fusoida v. elliptico- v. clavulato-elongata, recta v. leniter inaequilateralia, antice acutiuscule rotundata, postice attenuata ac truncatula, 24-55 et primo continua, hyalina, dein 5-10-septata, ad septa leniter constricta, eguttulata, levia. Status conidicus tandem *Helminthosporium pulchellum* sistens.

DELITSCHIA Auersw. — Sacc. Syll. I, p. 732.

*1. **Delitschia furfuracea** Niessl in litt., Rehm fasc. XV, n. 747. — 6623

Peritheciis parenchymaticis, brunneis; ascis amplis, clavatis, 8-sporis, 300 \approx 50; sporidiis distichis, oblongis, obtusis, medio constrictis, bicellularibus, strato mucoso obvolutis, obscurae brunneis, 45-50 \approx 21; paraphysibus filiformibus vel ramosis, guttulatis.

Hab. in fimo leporino, Brünn Moraviae,

*10. **Delitschia Marchalii** Berl. et Vogl. *Delitschia* sp. (?) March. 6624

Fung. coproph. p. 10. — Peritheciis gregariis, minutissimis, subglobosis; ascis cylindraceis, acutiusculis, deorsum brevissime attenuato-stipitatis, 75-85 \approx 11-13, parum et minute paraphysatis, 8-sporis; sporidiis plerumque oblique monostichis, ellipticis, apicibus obtusis, ad septum vix constrictis, primo hyalinis tandem subfuscis, annulo hyalino, angusto cinctis, in articulos binos haud secedentibus, 10,5-12 \approx 5,5-6 μ .

Hab. in fimo Cuniculorum inter Limelette et la Baraque in Belgio. — *Delitschia elephantinae* affinis sed magnitudine ascorum et forma sporidiorum distinguenda.

OTTHIA Nits. — Sacc. Syll. I, p. 735.

1. **Oththia Spireæ** Fuck. — Sacc. Syll. I, p. 735, Winter in Hedwigia 2784
1886, pag. 104. — Asci 175-193 \approx 17-18; sporidia medio parum
constricta, opaca, 28-30 \approx 12; paraphyses filiformes.

* 18. **Oththia Monodiana** Sacc. et Roum. in Rev. Myc. 1883, tab. 39, 6625
f. 6. — Peritheciis subcutaneo-erumpentibus, in cæspites minutos
collectis, globosis obtusis, atris, rugulosis, $\frac{1}{2}$ mm. diam.; ascis cy-
lindræis, 160-170 \approx 18, paraphysatis, breve stipitatis, octosporis;
sporidiis oblique monostichis, ellipsoideis, constricto-1-septatis, 23-
25 \approx 12-14, fuliginæis.

Hab. in ramis Salicis caprææ. — Affinis *O. Alni*.

* 20. **Oththia Pteleæ** Rab. in Fungi Europ. n. 1846. — Peritheciis 6626
gregariis, epidermide tectis, globosis, atris; ascis cylindræis, octo-
sporis; sporidiis exacte mono-vel distichis, oblongis, vel ovoideis,
uniseptatis, fuscis, 16-18 \approx 8-9.

Hab. in ramis emortuis Pteleæ trifoliatæ, Schlossgarten
zu Salem Baden (Ласк).

MELANCONIELLA Sacc. Syll. I, p. 741.

* 1. **Melanconiella biansata** (Ell. et Ev.) Berl. et Vogl. *Melanconis* 6627
biansata Ell. et Ev. in Torr. bot. Club. 1883, p. 118. — Peri-
theciis in stromate *M. Meschuttii* simili circinatis, globosis, 0,75
mm. diam., mox collapsis, 6-10; ostiolis brevibus, quadrangulari-
bus vel apice imperfecte pertusis, in discum acute ellipsoideum
vel orbicularem, sordide brunneum, epidermidem perforantem et
ea rupta cinctum, collectis; ascis 190-200 \approx 30, evanidis (octospor-
is?); sporidiis oblongo-ellipsoideis, uniseptatis, mox brunneis, sæ-
pius utrinque appendicula brevi, tuberculiformi, obtusa ornatis,
35-45 \approx 15-19, sine appendiculis.

Hab. in ramis Betulæ, Plainfield Amer. bor.

* 2. **Melanconiella acrocystis** (Peck) Berl. et Vogl. *Valsa acrocystis* 6628
Peck in 33 Rep. St. Mus. p. 34, tab. 2, fig. 19-22. — Pustulis
minutis, epidermide tectis et eam leniter elevantibus atque in la-
cinias acutas transverse rumpentibus, peritheciis sæpius 4-12 in
quaque pustula circinatis, cortice interiore insidentibus, tomento
griseo-brunneo tectis, ostiolis brevibus, nigris, obtusis, seriatim dis-
positis; ascis oblongis; sporidiis latis, stipitatis vel distichis, oblon-
gis, coloratis, uniseptatis, 40-62 \approx 12-20, utrinque appendicula hya-
lina, subglobosa vel sphæroidea præditis.

Hab. in ramis emortuis Betulæ lentæ, North Greenbusch
Amer. bor.

- *8. **Melanconiella Meschuttii** (Ell. et Ev.) Berl. et Vogl. *Valsa Me-* 6629
schuttii Ell. et Ev. in Bull. Torr. bot. Club. 1883, p. 117. — Peritheciis 10-20, circinatis, in stromate lenticulari, nigro, orbiculari vel ellipsoideo, superficie interiore corticis, insilente immersis; ostioliis brevibus, cylindraceutis, in discum, sordide brunneum, epidermidem transverse rumpentem collectis, apice distincte 4-rimoso; ascis circiter, 75-10 p. sp.; sporidiis distichis, ellipsoideis, leniter curvis, 14-16 \times 6-8, uniseptatis, vix constrictis, primum subhyalinis demum brunneis, utrinque appendicula hyalina, corniformi, mox evanida ornatis.

Hab. in ramis emortuis Betulæ, Planfield Americæ borealis (GEORGE F. MESCHUTT).

VALSARIA Ces. et De Not. — Sacc. Syll. I, p. 741.

- *1. **Valsaria atrata** Sacc. et Br. Misc. Myc. II. p. 22, n. 97 tab. XI, 6630
 fig. 29. — Stromatibus gregariis, cortice initio tectis et ligno superficie late nigrificato basi adnatis, globoso-conoideis, aterrimis; peritheciis stromate immersis, paucis, globulosis, ostioliis breviter emergentibus, papillatis; ascis cylindraceutis, breve stipitatis, copiose paraphysatis, octosporis; sporidiis monostichis, ellipsoideo-oblongis, constricto-1-septatis, 17-20 \times 8-11, initio flavicanti-olivaceis, 2-guttulatis, dein opace fuliginis.

Hab. in caulibus emortuis Brassicæ oleracæ acervatis, Troyes Gallicæ (BRIARD).

- *2. **Valsaria nigrospora** (Peck) Berl. et Vogl. *Diatrype nigrospora* 6631
 Peck in 33 Rep. Stat. p. 33. — Stromate minuto, subtili, orbiculari, pustulato, nigrescente v. nigro, epidermidem elevante et eam stellatum v. transverse rumpente; peritheciis parvis, sæpe 6-12, ligno insculptis, stromateque sursum tectis; ostioliis vix prominulis, discum subcinereum v. nigrescentem perforantibus; ascis subcylindraceutis, 8-sporis; sporidiis stipitatis vel distichis, oblongo-ellipsoideis, obtusis, sæpe leniter curvulis, uniseptatis, 16-8, loculis crasse 1-guttatis, primum pallidis, demum coloratis.

Hab. in ramis emortuis Betulæ luteæ, Quaker Street Americæ borealis.

- *3. **Valsaria Bignoniæ** (Schw.) Cooke in Grevillea XIII, p. 39, *Spha-* 1191
ria Bignoniæ Schw. Syn. Amer. bor. n. 1310 et Sacc. Syll. II, p. 383. — Sporidia olivaceo-brunnea, uniseptata, 15 \times 8.
- *4. **Valsaria Robiniæ** (Schw.) Cooke in Grevillea XIII, p. 37, *Spha-* 4133

ria Robinie Schw. Car. n. 61 et Sacc. Syll. II, p. 369. — Sporida elliptica, uniseptata, brunnea, 20 μ . longa.

- *5. **Valsaria actidia** Berk. et Rav. in Herb. Berk. — Cooke in Grev. 6632
XIV, p. 14. — Stromatibus innato-emergentibus, peritheciis magnis, paucis, 4-6, ostioliis cuneiformibus, stellatim dispositis; ascis amplis (tetrasporis?); sporidiis ellipticis, uniseptatis, constrictis, fuscis, 40-42 \approx 16-18.

Hab. in ramulis Ostryæ et Carpini in Carolina inf.

- *6. **Valsaria Phoradendri** (Berk. et Curt.) Berl. et Vogl. *Melogramma* 6633
Phoradendri B. et Curt., Curt. Cat. 143. — Cooke in Grev. XIII, p. 103. — Peritheciis gregariis, tectis, demum cortice fissurato erumpentibus, atris, obtusis; ascis subcylindricis; sporidiis subellipticis, uniseptatis, leniter constrictis, fuscis, 28-30 \approx 10-12.

Hab. in cortice Phoradendri flavescentis in Amer. bor.

- *8. **Valsaria grandinea** (Berk.) Berl. et Vogl. *Melogramma* (6634
Valsaria) *grandinea* Berk. nec *Diatrype grandinea* B. et Rav. *Melogramma insidens* Berk. in Grev. IV, 99, nec Schweinitz (ita Cooke in Grevillea XIII, p. 103). — Stromate effuso, subrotundo, fusco-nigro; peritheciis emergentibus, confertis, ovatis, apice depresso subumbilicato; ascis clavatis; sporidiis ellipticis, uniseptatis, nec constrictis, 8 \approx 4, fuscis, diu continuis.

Hab. in cortice Fraxini in America boreali.

- *9. **Valsaria purpurea** Peck in Torr. bot. Club. 1884, p. 28. — Pu- 6635
stulis erumpenti-emergentibus, tomento purpureo tectis; peritheciis 6-20 in quaque pustula, stipatis, subglobosis, nigris; ostioliis tomentum perforantibus, rostratis, cylindraceis vel elongato-conoidis, rugosis, sæpe curvis vel flexuosis, nigris; ascis cylindraceis, paraphysatis, 75-110 \approx 10; sporidiis uniseriatis, coloratis, oblongo-ellipsoideis, uniseptatis, 15-16 \approx 7,5-8.

Hab. in cortice Fraxini, Canada in Amer. bor. (MACOUN).

- *10. **Valsaria stellulata** Romell in Hedwigia 1885, p. 263. — Stro- 6636
mate eutypeo; ostioliis emergentibus, astroideis; ascis clavatis, longissime pedicellatis, 8-sporis, 135-150 (parte sporif. 60-90) \approx 10-12; sporidiis botuliformibus, utrinque rotundatis, medio (rarius infra medium) 1-septatis (rariissime inæqualiter 2-septatis), non constrictis, primo olivaceis, continuis et guttulatis, dein fuscis et vix guttulatis, sed distincte septatis, rectis vel curvulis, 16-25 \approx 4-6.

Hab. in ligno truncorum Fraxini excelsioris pr. Upsala in Suecia (L. ROMELL).

- *21. **Valsaria majuscula** Cooke et Harkn. in Grevillea XIII, p. 17. 6637

— Tecta; pustulis sparsis, vix prominulis, peritheciis 6-10 compositis, demum cuticulam perforantibus, ostiolis brevibus obtusis; ascis amplis; sporidiis majusculis, ellipticis, medio constrictis, utrinque rotundatis, uniseptatis, fuscis, 50 \approx 25.

Hab. in ramis Salicis in California (HARKNESS).

- *22. **Valsaria Hookeri** (Cooke) Berl. et Vogl. *Melogramma Hookeri* 6638
Cooke in Grevill. XIII, pag. 103. — Acervulis erumpentibus, discoideis, atris; peritheciis prominentibus, minimis, confluentibus vel subdiscretis; ascis clavatis; sporidiis lanceolatis, uniseptatis, valde constrictis, fuscis, 35-45 \approx 7.

Hab. in corticibus South Marocco (HOOKER).

- *30. **Valsaria Sarraziniana** Sacc. et Roum. in Rev. Myc. 1883, tab. 6639
39, fig. 8. — Stromate late effuso sed vix manifesto, corticali; peritheciis hinc inde 3-4 aggregatis, v. subsparsis, globosis, nigris, $\frac{3}{4}$ mm. diam., omnino abditis; ostiolis brevibus, punctiformi-perforantibus; ascis cylindraceutis, longiuscule stipitatis, 160-170 \approx 10, paraphysibus filiformibus obvallatis, octosporis; sporidiis oblique 1-sticis, oblongis, constricto-1-septatis, loculo superiore paullo crassiore, 20-22 \approx 7-7.5, olivaceo-fuliginis.

Hab. in cortice Alni glutinosæ. — *Valsariæ fodanti* videtur affinis.

- *36. **Valsaria collematoides** (B. et Rav.) Berl. et Vogl. *Botryosphaeria collematoides* B. et Rav. in Grevillea XIII, p. 102. — Stromate effuso, tenui, atro; peritheciis parvulis, ovalibus, congestis, demum apice applanato, opaco, botryoideo-aggregatis, subconfluentibus; ascis cylindraceutis, octosporis; sporidiis ellipticis, uniseptatis, vix constrictis, fuscis, 15 \approx 7.

Hab. in corticibus in America boreali.

- *38. **Valsaria Caproni** (Cooke) Berl. et Vogl. *Pseudovalsa Caproni* 6641
Cooke in Grevillea XIV, p. 48. — Pustulis in ligno immersis; peritheciis subglobosis, atris, circinantibus, sursum in colla breviter convergentia productis; ascis cylindraceutis, octosporis; sporidiis uniseriatis, ellipticis, medio uniseptatis, nec constrictis, fuscis, 15 \approx 5.

Hab. in ligno denudato quercino, Shere Britannicæ (D. CAPRON).

Sect. 6. Phæophragmiæ Sacc.

MASSARIA De Not. — Sacc. Syll. I, p. 2.

- *3. **Massaria occulta** Romell in Hedwigia 1885, p. 262. — Peri- 6642
theeciis sparsis vel subaggregatis, cortice totis immersis, nigris, in-

tus atris, minutis (circa $\frac{1}{5}$ mm. diam.), ostioli vix emersis, nudo oculo puncta alba in peridermio levi (non elevato) offerentibus; ascis cylindræis, breviter stipitatis, paraphysatis, 8-sporis, 130-180 (parte sporif.) \approx 10-12; sporidiis monostichis, oblongis, obtusis, sæpe nonnihil inæquilateralibus, primo 4-guttulatis, guttulis globosis, deinde guttulis transverse ovalibus v. transverse fusiformibus, demum 3-septatis, fuligineo-olivaceis, 20-28 \approx 8-9, vix vel non hyalino obvolutis.

Hab. ad ramos emortuos Ribis Grossulariæ prope Kumla Nericia in Suecia (L. ROMELL).

- * 4. **Massaria cleistotheca** Harkn. New Calif. Fungi p. 24. — Peritheciis minutis, tectis; ascis 8-sporis, piriformibus vel obovatis, crasse tunicatis, sessilibus, 48 \approx 30; paraphysibus agglutinatis; sporidiis hyalinis, æqualiter biconoideis, dein triseptatis, strato mucoso obvolutis, 32-40 \approx 8-10. 6643

Hab. in caulibus emortuis Dendromeci rigidi, Tamalpais in California. — «Si sporidia costanter hyalina, aptius sub *Massarina* inquirenda».

- * 10. **Massaria pulchra** Harkn. New Calif. Fungi p. 24. — Peritheciis sparsis, tectis, nucleo albo faretis, 1-1 $\frac{1}{2}$ mm. diam.; ascis octosporis, late clavatis, 126 \approx 36; sporidiis fusiformi-navicularibus, irregulariter et inæqualiter biconoideis, mucro obvolutis, primum uniseptatis, hyalinis, tandem brunneis, inæqualiter 3-5-pseudo-septatis, 58-60 \approx 20-22. 6644

Hab. in ramulis emortuis Umbellulariæ californicæ, Saualito Californiæ.

- * 11. **Massaria umbrosa** (Niessl) Rehm in litt. *Leptosphaeria umbrosa* Niessl in Herb. Rabenh. Fungi Europ. n. 1934 et Rehm Ascomyc. fasc. XIV, pag. 13, n. 690. — Peritheciis sub epidermide paulo rubescente nidulantibus, minutis, subglobosis, siccitate parum collapsis, atris, coriaceis, ostiolo brevi, papilliformi; ascis oblongis, clavato-oblongis v. subcylindræis, stipite brevi, abrupto, octosporis, 70-100 \approx 11-16; sporidiis distichis, fusiformibus, utrinque obtuse rotundatis, rectis, curvatisve, 4-septatis et parum constrictis, dilute virescentibus, demum subolivaceis, denique sæpe fuscis, 32-34 \approx 7-9, mucro tenui obvolutis. 6645

Hab. in caulibus exiccatis Spireæ Arunci, Gentianæ asclepiadeæ, Lysimachiiæ vulgaris etc. in Germania.

- * 12. **Massaria micacea** Kunze fungi selecti n. 95. — Exemplaria Kunzeana (in herb. Saccardiano) immatura! 6646

Hab. in ramis emortuis *Tiliae platyphyllæ* in Germania.

LEPTOSPHERIA Ces. et De Not. — Sacc. Syll. II, p. 13.

- * 1. **Leptosphæria Physalidis** Ellis et Ev. in Torr. bot. Club. 1884, 6647
p. 42. — Peritheciis minutis, globoso-depressis, contextu celluloso, apice poro latiusculo pertusis; ascis 35-40 \approx 7-8, aparaphysatis; sporidiis distichis, fusiformibus, leniter curvulis, luteolis, 3-septatis, 15-19 \approx 3.

Hab. in maculis sordide albis, rotundis, foliorum *Physalidis* pubescentis, prope Lexington Amer. bor. (KELLERMANN).

- * 5. **Leptosphæria demissa** Niessl Contr. Fl. Myc. Lus. pag. 13. — 6648
Peritheciis sparsis, tectis, depresso hemisphaericis seu collapsis, minutis, 0,2 mm. diam., atris, glabris, coriaceis, ostiolo brevi conico, fimbriato, ut in *L. modesta*, erumpente; ascis clavatis, in stipitem brevem attenuatis, 8-sporis; sporidiis distichis, fusiformibus, rectis vel curvatis, utrinque obtusiusculis, 4-cellularibus vel 3-septatis, loculo secundo parum inflato, dilute lutescentibus, subhyalinis, 15-19 \approx 3-3½; paraphysibus ascorum longitudine, tenuibus, ramosis.

Hab. ad caules aridos *Vincæ* medicæ, Coimbra Lusitaniæ. — Sporidiorum forma et magnitudine a *L. modesta* distincte diversa.

- * 10. **Leptosphæria bicuspadata** (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6649
ria bicuspadata Cooke et Hark. in Grevillea XIII, p. 19. — Sparsa, tecta; peritheciis innatis, subprominulis, globosis, atris, ostiolo brevi; ascis clavatis, octosporis; sporidiis fusiformibus, triseptatis, constrictis, fuscis, utrinque hyalino-cuspidatis, 25 \approx 8, sine cuspidibus.

Hab. in caulibus *Baccaridis* in California (HARKNESS).

- * 11. **Leptosphæria Longchampsii** (West.) Sacc. in Rev. Myc. 1885, 6650
Sphæria Longchampsii West. in March. Crypt. Belg. — Peritheciis primo tectis, dein epidermide secedente liberis, atris, minutis, globosis globosove-conoideis, ostiolo conico, longiusculo, acuto præditi, rugosiusculis, ¼-⅓ mm. diam.; ascis cylindræis, sursum rotundatis, deorsum attenuato-stipitatis, paraphysatis, octosporis, 70-80 \approx 10-12; sporidiis distichis, cylindræis, utrinque rotundatis, 4-septatis, loculo secundo leniter crassiore, luteo-viridulis, 25-30 \approx 4-4,5.

Hab. in caulibus exsiccatis *Libanotis vulgaris* in Belgio.

- * 12. **Leptosphæria ophioboloides** Sacc. in Misc. Myc. I, pag. 23. — 6651
Peritheciis gregariis, epidermide velatis, globosis, ⅓-1 mm. diam.,

atris, ostiolo papillato erumpente; contextu parenchymatico densiusculo; ascis clavatis, breve stipitatis, apice obtusiusculis, 120-130 \approx 14, parce paraphysatis, octosporis; sporidiis subtristichis, bacillaribus, utrinque obtuse rotundatis, 8-10-septatis, loculo secundo vel tertio paullo crassiore, 50-55 \approx 4-4,5 olivaceo-melleis, loculis sæpius minute biguttulatis.

Hab. ad caules Tragopogonis, ut videtur, in silvis prope Neuchatel Helvetiæ (MORTIER), — Sporidia subinde bina apicibus connexa, interdum in loculos secedentia, hinc ophioboloidea.

*20. **Leptosphæria Harknessiana** Ell. et Ev. in Journ. of Myc. 1885. 6652

— Peritheciis sparsis vel gregariis, primum epidermide tectis, demum liberis atque superficialibus, atris, hemisphæricis $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ostiolo brevi, cylindræo late pertuso; ascis cylindræis, 100-114 \approx 10-12, octosporis, paraphysibus filiformibus obvallatis; sporidiis monostichis, ellipsoideis, flavo-brunneis, 3-septato-constrictis, 18-22 \approx 7-9, sursum obtusis, basi rotundatis.

Hab. in caule emortuo Anamirtæ Cocculi, Emery Co. Utah Amer. bor.

*21. **Leptosphæria pratensis** Sacc. et Br. in Rev. Myc. 1885. — Pe- 6653

ritheciis numerosis, innatis globulosis, parum depressis, corticulis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., ostiolo obtuso, epidermidem vix nigrefactam perforante; ascis cylindræo-clavatis, breviter stipitatis, octosporis, 68-112 \approx 8-12; paraphysibus filiformibus; sporidiis distichis v. subdistichis, fusiformibus, obtusiusculis, primum hyalinis dein luteolis, 3-septatis, septis leniter constrictis, rectis vel curvulis, 28-32 \approx 5-6, granuloso-guttulatis.

Hab. in caulibus exsiccatis Medicaginis sativæ, Troyes Galliæ.

*22. **Leptosphæria subcæspitosa** Cooke et Harkn. in Grevillea XIV, 6654

p. 10. — Erumpens; peritheciis subglobosis, atris, subcæspitosis, 4-8 in cæspitulos congestis vel in lineas elongatas dispositis; ostiulis cylindricis, elongatis, emergentibus; ascis clavatis, octosporis; sporidiis lanceolatis, medio constrictis, quinquesepatis, fuscis 35-38 \approx 7.

Hab. in caule Geranii in California (HARKNESS).

25. **Leptosphæria oreophiloides** Sacc. et Penz. Syll. II, pag. 20. *Var.* 2019

Scrophulariæ Karst. in Hedw. 1883, n. 12, p. 2. — Rev. atque Synop. Ascom. fenn. p. 51. — Ascis circ. 75 \approx 9; sporidiis octonis, elongato-fusoideis, rectis vel leviter curvulis, subinde loculo secundo superiore levissime crassiore, 30-40 \approx 4; paraphysibus eguttulatis,

Hab. in caulibus Scrophulariæ nodosæ emortuis ad Mu-
stiaia Fenniæ.

- * 30. **Leptosphæria eutypoides** Peck in 38 Rep. St. Mus. p. 105. — 6655
Peritheciis numerosis, gregariis, 250-280 μ . diam. hemisphæricis
vel depressis, primum epidermide tectis, demum denudatis, nigris,
ostiolis papilliformibus; ascis clavatis vel subcylindræcis, 100-
110 \approx 12-16; sporidiis ovoideis vel oblongis, rectis vel leniter cur-
vulis, triseptatis, plerumque ad septa constrictis, luteo-brunneis,
20-23 \approx 8-10, paraphysibus filiformibus.

Hab. in caule emortuo Chenopodii albi, Albany Amer. bor. 2928

34. **Leptosphæria Galiorum** Sacc. Syll. II, p. 22. — *Var.* **Lampsanæ**
Sacc. et Br. in Rev. Myc. 1885, Peritheciis sparsis, globosis, epi-
dermide tectis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ostiolis papillatis, erumpentibus;
ascis clavatis, sursum attenuatis, deorsum longe stipitatis, octosporis,
64-68 \approx 14-16 p. sp.; paraphysibus filiformibus, guttulatis; spori-
diis sursum distichis basi monostichis, ovoideo-oblongis, obtusis,
3-septatis, septis constrictis, brunneis, 20-24 \approx 8, rectis vel leniter
curvuli. — In caulibus Lampsanæ communis, Troyes Galliæ

- * 37. **Leptosphæria Sarraziniana** Sacc. et Roum. in Rev. Myc. 1884, 6656
tab. LV, f. 2. — Peritheciis innato-erumpentibus, globoso-papil-
latis, mox collapsio-umbilicatis; ascis clavato-fusoideis, 85-95 \approx 7-
10, octosporis; sporidiis distichis, fusoideis, 3-septatis leniter con-
strictis, obtusiusculis, guttulatis, olivaceis, 18-21 \approx 5-6.

Hab. in nodis Caryophyllaceæ ejusdam, Senlis Galliæ. —
Ab affn. *L. pyrenopezizoide* differt sporidiis rectis, crassioribus,
loculo secundo vix inflato etc.

- * 40. **Leptosphæria Weberi** Oudem. Contr. à la Flore myc. de Nowaja 6657
Semlja p. 11, t. I, f. 7. — Peritheciis hypophyllis, minutis 100-
150 μ . diam., primitus infra epidermidem absconditis, postremo pa-
pilla obtuse-conica prominentibus, sparsis, nigris; ascis maturis cy-
lindræcio-clavatis, brevissime stipitatis, parum curvatis, paraphy-
satis, 60-70 \approx 14-16; sporidiis, ut videtur, tristichis, fusoideis, stric-
tis vel plerumque falcatis, utrinque obtusiusculis vel subacutis, tri-
septatis, 25-37 \approx 5-7, junioribus dilutius, senioribus saturatius oli-
vaceis, loculo secundo in multis ampliore.

Hab. in Ranunculo nivali *var.* sulphureo, Nowaja
Semlja.

- * 44. **Leptosphæria Corallorhizæ** Peck 38 Rep. St. Mus. p. 105. tab. 2. 6658
fig. 20-23. — Peritheciis numerosis, minutis, 100-125 μ . d., erum-
pentibus nigris, minute ostiolatis; ascis cylindræcis, sessilibus, 50-

75 = 7-8; sporidiis stipatis vel distichis, subfusiformibus, triseptatis, medio leniter constrictis, brunneolis, 20-26 = 4-5.

Hab. in caulibus emortuis Corallorhizæ multifloræ, Caroga Amer. bor.

- *46. **Leptosphæria diaporthoides** Wint. Contr. Flor. Myc. Lus. VI, 6659
p. 11, n. 844. — Peritheciis omnino immersis, semper tectis, serialiter dispositis, depresso globosis, ostiolo brevi, conico, erumpente, membranaceis, atris, glabris, 360-420 μ . latis; ascis exacte clavatis, longe pedicellatis, apicem versus parum attenuatis, 100-120 = 17-18, octosporis; sporidiis oblique 2-3-stichis, elongato-fusiformibus, parum curvatis, semper triseptatis, ad septa constrictis, loculo medio parum turgidiore, terminalibus longe attenuatis, pallidissime flavidulis. 36-40 = 6-7; paraphysibus filiformibus.

Hab. ad caules siccos Umbelliferarum, Serra de Monteseinho prope Braganca Lusitanæ (MOLLER).

- *50. **Leptosphæria Thomasiana** Sacc. et Roum. in Rev. Myc. 1883, 6660
tab. 40, fig. 10. — Peritheciis dense gregariis, globoso-conicis, obtusiuscule papillatis nigris, solidiusculis, initio epidermide velatis, mox liberatis (melanommoideis), vix $\frac{1}{2}$ mm. diam.; ascis tereti-
usculis, breviter stipitatis, parce paraphysatis, octosporis, 80-90 = 8-10; sporidiis oblique monostichis vel distichis, oblongo-fusoideis, 3-septatis, leniter constrictis, rectis vel curvulis, 20-22 = 6, fuscidulis.

Hab. in sarmentis Rubi emortuis in Gallia.

- *54. **Leptosphæria Ribis** Karsten in Rev. Myc. 1885, p. 106. — Pe- 6661
ritheciis sparsis, cortice nidulantibus, epidermide demum rimose fissa tectis, pustulas parvas efficientibus, sphæroideo-depressis, atris, glabris, contextu tenui, minute celluloso, fuligineo, ostiolo obsoleto, circiter 150 μ . latis; ascis cylindræis, 80-90 = 8-9, octosporis; sporidiis monostichis, ovoideo-vel fusoideo-oblongatis, rectis, triseptatis, ad septa non vel vix constrictis, flavido-hyalinis, demum obscurioribus, subfuscidule flavescensibus, 15-18 = 6; paraphysibus haud bene discretis.

Hab. in ramis exsiccatis Ribis alpini pr. Mustiala Fennicæ. 6662

- *64. **Leptosphæria Ceanothi** (Cooke et Hark.) Berl. et Vogl. *Sphæ-
ria Ceanothi* Cooke et Harkness in Grevillea XIII, pag. 19. —
Gregaria, tecta; peritheciis minutis, subglobosis, epidermide velatis, ostiolo brevi, punctiformi; ascis breviter clavatis, octosporis; sporidiis sublanceolatis, triseptatis, hyalino-luteolis, 16-18 = 4,5.

Hab. in ramulis Ceanothi in California (HARKNESS).

- *66. **Leptosphæria rubrotincta** E. et E. in Journ. of Myc. I, pag. 150. 6663
 — Peritheciis sparsis, membranaceis, depresso globosis, 200-250 μ . diam., apice perforatis, primo tectis dein leniter prominentibus et epidermidem, pallide rufo-sanguineo-maculatam, vix perforantibus; ascis clavato-cylindraceis, sessilibus, 100-110 \approx 10-13, paraphysibus cinctis; sporidiis biseriatis, cylindraceis, rectis vel leniter curvatis, luteolis, 8-10-septatis, loculo medio leniter inflato, 25-40 \approx 4-5, subobtusis.

Hab. in ramis Staphyleæ trifoliæ in America boreali.

- *67. **Leptosphæria Gillotiana** Sacc. et Roum. in Rev. Myc. 1883, p. 236, 6664
 tab. 40, fig. 9. — Peritheciis inæqualiter gregariis, globoso-depressis, $\frac{1}{2}$ mm. diam. et ultra, atris, cortice innatis; ascis fusoides, breve stipitatis, 70-75 \approx 10, octosporis, paraphysatis; sporidiis distichis, oblongis, utrinque rotundatis, 3-septatis, non v. vix constrictis, 18 \approx 7, rufo-fuliginis.

Hab. in ramis corticatis Salicis in Gallia. — Affinis *Lept. platy carpæ*, a qua peritheciis minus depressis, sporidiis obtusioribus, minus constrictis, brevioribus differt.

- *68. **Leptosphæria californica** (Cooke et Hark.) Berl. et Vogl. *Sphæria* 6665
Californica Cooke et Harkn. in Grevillea XIII, pag. 20. — Densissime gregaria, tecta; peritheciis hemisphærico-prominulis, obtusis, atris, diu epidermide velatis, demum apice subnudis; ascis clavatis; sporidiis biseriatis, sublanceolatis, utrinque obtusis, 4-septatis, cellula pœnultima subincrassata, pallide fuscis, 25-30 \approx 8.

Hab. in ramis et foliis Araucariæ imbricatæ, Sarcothamni, Rhododendri, Evonymi in California.

- *69. **Leptosphæria odora** (Cooke et Hark.) Berl. et Vogl. *Sphæria* 6666
odora Cooke et Harkness in Grevillea XIII, p. 19. — Tecta, subsparsa; peritheciis mediis, globosis, atris, in cortice nidulantibus, epidermide convexa tectis, ostiolo punctiformi; ascis clavatis, octosporis; sporidiis lanceolatis, biseriatis, primum uniseptatis, demum triseptatis, hyalino-luteolis, 22-25 \approx 5.

Hab. in ramis Umbellulariæ in California (HARKNESS).

- *77. **Leptosphæria Morthieriana** Sacc. Misc. Myc. I, p. 23. — Peri- 6667
 theciis laxè gregariis, parenchymate immersis, globulosis, duriusculis, atris, $\frac{1}{6}$ mm. diam., ostiolo conoideo, acuto, emergente; ascis teretibus, crassis, brevissime abrupte stipitatis, 140-150 \approx 35-37, paraphysatis, apice subrotundatis, octosporis; sporidiis distichis, oblongo-fusoides, rectis, utrinque rotundatis, 40-45 \approx 13-14, 5-septatis, vix constrictis, lutescentibus.

Hab. in foliis Succisae putrescentibus in palude torfacea les Ponts prope Neuchatel Helvetiae (MORTIER).

* 87. **Leptosphaeria cassiacola** E. et E. in Journ. of Myc. 1886, p. 41. 6668

— Peritheciis gregariis, minutis, $\frac{1}{8}$ - $\frac{1}{6}$ mm. diam., epidermide nigrescente, minute pustulatum inflata, demum ostiolo papilliformi perforata, tectis; ascis 70-75 \approx 8-10; sporidiis distichis, fusiformibus, leniter curvulis, 5-septatis, flavo-brunneis, non constrictis.

Hab. in pedunculis emortuis Cassiae, Houston Texas Americae borealis.

102. **Leptosphaeria agnita** Sacc. Syll. II, pag. 40, var. **Chrysanthemi** 6669

Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 2. — Peritheciis minutis, 0,3-0,4 mm. diam., saepe complanatis; ascis crassioribus, 70-90 \approx 12-14; sporidiis tristichis, typice 5-septatis, 45-48 \approx 6.

Hab. in caulibus siccis Chrysanthemi corymbosi, Eichenmvald prope Sugenheim Franconiae (REHM). — *Var. major* Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 4: a typo differt peritheciis majoribus, $\frac{1}{2}$ mm. diam. et distincte papillatis. In caule emortuo Chærophylli communis in Gallia (MORTIER). — *var. Erigerontis* Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 3: ascis majoribus, 82-90 \approx 15; sporidiis tristichis, valde elongatis, 55-60 \approx 4-5, demum 6-septatis, loculo tertio superiore non vel vix turgidiore, utrinque sensim attenuatis. In caule sicco Erigerontis canadensis in Amer. bor. (ELLIS). — *Var. ambigua* Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 5: peritheciis epidermide velatis, obtuse breviterque papillatis, atris, nitidis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., globoso-depressis; ascis cylindraceo-clavatis, 80-110 \approx 12; sporidiis irregulariter tristichis vel distichis, leniter biconoideis, loculo tertio superiore parum crassiore, utrinque obtusis, 6-septatis, 35-38 \approx 6, flaveolis. In caule Eupatorii cannabini in Germania.

104. **Leptosphaeria derasa** (B. et Br.) Thüm. — Sacc. Syll. II, pag. 2908

41. *Var. alpestris* Rehm in Hedwigia 1885, pag. 235. — Peritheciis gregariis, primitus sub epidermide caulium nidulantibus eamque papillula protuberante perforantibus, demum liberis, sessilibus globosis, in papillulam rotundam, brevem protractis, haud perspicue perforatis, atris, parenchymatice, fusco-nigre contextis, circ. 0,3-5 mm. diam., hyphis plus minusve longis, circ. 4 μ . cr., undulatis, septatis, fuscis, crebris obsessis; ascis clavatis, 8-sporis, 90-120 \approx 12; sporidiis 2-3-stichis, rectis vel subcurvatis, fusiformibus, subacutis, plerumque 9-cellularibus, itaque cellula quarta latiore, demum 10, rarissime 11-cellularibus et cellula quinta latissi-

ma, quaque nucleolis 2-parvulis et sporidiis 10-cellularibus utraque apice appendicula filiformi, curvata, brevi instructis, flavidulis, 36-45 \approx 4-5; paraphysibus filiformibus, nucleolatis.

Hab. ad caules siccos Compositæ? ad muros viæ jugi Stelvi prope Franzenshöhe in Tirolia (DR. REHM).

105. **Leptosphæria multiseptata** Winter. — Sacc. Syll. II, Add. LVII, 6134

var. alpina Rehm in Hedwigia 1885, p. 235. — Peritheciis gregaris vel sparsis, primitus sub epidermide elevata nidulantibus eamque papillula perforantibus, demum liberis, subglobosis, papillula minuta, haud perspicue perforatis, parenchymatice, fusce contextis, atris, circ. 0,3 mm. diam., rarissime basi hyphis fuscis, parvulis cinctis; ascis clavatis, 8-sporis, circ. 100 \approx 12-14; sporidiis 3-stichis, flavidulis, fusiformibus, subobtusis, rectis, 11-(rarissime 12) cellularibus, cellula quinta semper latiore, minus cellula sexta, quae plerumque nucleolis nonnullis, parvulis prædita, ad septa subconstrictis, 50 \approx 5; paraphysibus filiformibus.

Hab. ad caules siccos Epilobii Fleischeri juxta glaciem æternam montis Ortler prope Sulden in Tirolia (DR. REHM).

*117. **Leptosphæria consimilis** E. et E. in Journ. of Myc. 1886, p. 41. 6670

— Peritheciis sparsis, carbonaceo-coriaceis, $\frac{1}{3}$ mm. diam., primo tectis fibrasque ligni vel corticis minute pustulatim elevantibus, ostiolo papilliformi demum erumpentibus; ascis subcylindraceis, 80-100 \approx 15-20, copiose paraphysatis, octosporis; sporidiis subdistichis, cylindraceo-fusiformibus, 3-septatis, primum subhyalinis, dein luteis, demum obscure brunneis, 7-septatis, non vel vix ad septa constrictis, 28-35 \approx 8-10.

Hab. in ramulis emortuis salicinis prope Huron Dakota Amer. (NELLIE E. CROUCH).

*125. **Leptosphæria Ammophilæ** Rehm. Ascomyc. fasc. XIV, n. 691. 6671

— Peritheciis immersis, dein prominulis, late ellipticis, ostiolo crasso, prominente donatis, nigris, levibus, 260-340 \approx 210-260; ascis oblongis, basi subinde leniter incrassatis, octosporis, 115-123 \approx 35 paraphysibus filiformibus obvallatis; sporidiis inordinate distichis, oblongis, 7-8-ocularibus, oculis quarto vel quinto subinde crassioribus, 38-45 \approx 12-14, luteis.

Hab. in caulibus siccis Psammæ arenariæ in Germania. — «An eadem ac *Metasphæria Sabuletorum*?».

*135. **Leptosphæria Delawayi** Pat. in Rev. Myc. 1886, p. 82. — Pe- 6672

ritheciis $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., concavis, nigris, ostiolo non papillato, primum epidermide tectis, demum denudatis; ascis 70-90 \approx 9-12,

8-sporis; sporidiis elongatis, fusiformibus, 3-4-septatis, pallide brunneo-fuliginosis, 40-45 \approx 6; paraphysibus filiformibus, ascorum longitudinem æquantibus.

Hab. in caulibus emortuis Primulæ Sikkimensis Sikiang (AB. DELAWAY).

- * 137. **Leptosphæria hyperborea** (Fuck.) Berl. et Vogl. *Pleospora hyperborea* Fuck. 2^a Deutsche Nordpolfahr. II, pag. 92 et Oudemans Contr. Flor. Myc. Now. Seml. p. 153, tab. II, fig. 9. — Peritheciis in foliorum aridorum pagina superiore nidulantibus, sparsis, punctiformibus, semiimmersis et basi globosa a foliorum substantia grisea, elevata cinctis, parte libera obtuse conica, siccis applanatis, aterrimis, perforatis; ascis oblongo-ovatis, utrinque attenuatis, 8-sporis, 60 \approx 24; sporidiis in asci media parte stipatis, oblongis, utrinque obtusis, rectis, 3-septatis, ad septum medium constrictis, 24 \approx 8, flavo-fuscis. 6073

Hab. in pagina superiore foliorum aridorum Andromedæ tetragonæ, Shannon Inseî Groelandiæ et Spitsbergen. — «An a *L. Andromedæ* satis distincta?»

- * 172. **Leptosphæria punctoidea** Karst. in Hedw. 1884, n. 1, p. 2, et 6674
Rev. atque Synop. Ascom. fenn. p. 53. — Peritheciis sparsis, sphæroideo-applanatis, innato-erumpentibus, subcutaneis, contextu parenchymatico, tenuissimo, olivaceo-pallescente, glabris, atris, poro latiusculo pertusis, circ. 1 mm. lat.; ascis cylindræo-clavatis, 45-75 \approx 7-11, pseudoparaphysatis; sporidiis octonis, distichis, elongato-fusoideis, curvulis, 3-septatis, eguttulatis, loculo secundo subinde leviter crassiore, hyalinis, demum dilute flavescentibus, 15-26 \approx 3-5.

Hab. in caulibus emortuis Asparagi officinalis ad Mustiala Fenniæ.

175. **Leptosphæria microscopica** Karst. — Sacc. Syll. II, pag. 59, 3069
var. **Calami** Karst. in Hedw. 1883, n. 12, p. 2, Rev. atque Synop. Ascom. fenn. — Peritheciis laxè gregariis, subcutaneis, sphæroideis, raro oblongatis, subastomis, glabris, atris, 1 mm. lat.; ascis elongato-clavatis, obtusis, 66-80 \approx 12-15; sporidiis octonis, di-vel subtristichis, elongato-fusoideis, rectis vel leviter curvulis, 3-septatis, eguttulatis, loculo subultimo subinde leviter crassiore, dilute flavis, 20-24 \approx 6; paraphysibus obsolete.

Hab. in foliis putrescentibus Acori Calami in insula Run-sala.

- * 189. **Leptosphæria marina** Ellis et Ev. in Journ. of Myc. 1885, p. 43. 6675
— Peritheciis irregulariter sparsis, subellipticis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.,

sursum conoideis, epidermide integra, nigrescente tectis, apice subtruncatis, ostiolo papilliformi, mox deciduo præditis, demum late perforatis; ascis 112-150 \approx 25-35, basi constrictis, substipitatis; sporidiis bi-tristichis, fusiformibus vel clavato-fusiformibus, luteolis. 1-3-septatis, (sæpe 1-septatis), medio leniter constrictis, 50-60 \approx 10-12, utrinque subobtusis.

Hab. in culmis emortuis *Spartinæ*, Cape May Amer. bor. (CAROLINA TREAT).

192. **Leptosphæria Typharum** (Desm.) Karst. — Sacc. Syll. II, pag. 3086

64, var. **phragmitina** Karst. in Hedw. 1884, n. 1, pag. 5. et Rev. atque Synops. Ascom. fenn. pag. 54. — Peritheciis sparsis, innato-erumpentibus, glabris, atris, exiguis: ascis oblongatis, subsessilibus, 75-88 \approx 20-22; sporidiis distichis, oblongatis, utrinque obtusis, subrectis, 3-septatis, ad septa leviter constrictis, dilute luteolis, 24-29 \approx 9-11; paraphysibus parum notabilibus.

Hab. in foliis *Phragmitis communis* putrescentibus ad Mustiala Fennicæ.

*200. **Leptosphæria hysteroioides** Ellis et Ev. in Bull. Wash. Lab. 6676

Nat. Hist. 1884, p. 4. — Peritheciis globosis, $\frac{1}{6}$ mm. diam., epidermide atrata, demum ostiolo obtuse conico perforata, tectis, sæpe confluentibus et *Hysterium* simulantibus; ascis oblongis vel oblongo-cylindræis, 85-112 \approx 12-15; paraphysibus apice intertextis; sporidiis biserialis, oblongo-fusoideis, hyalinis, 4-nucleatis, sæpe 3-septatis, brunneis, 20-24 \approx 7-9, ad septa constrictis, utrinque obtusis.

Hab. in foliis emortuis *Xerophylli tenacis* in Monte Paddo Amer. bor.

*205. **Leptosphæria infernalis** Niessl Contr. Fl. Myc. Lus. p. 13. — 6677

Amphigena; peritheciis dense gregariis, in maculis fuscis, sub epidermide dense nidulantibus, globosis, majusculis, 0,3 et ultra mm. diam. atris, glabris, rigidis, subcarbonaceis, ostiolo brevi, cylindrico, vix protuberante; ascis clavatis, stipite valde elongato, 8-sporis, 200-230 μ . longis, parte sp. 90-100 \approx 18-22; sporidiis distichis, oblongis vel parum lanceolatis seu medio valde constrictis, utrinque acutiusculis, rectis vel inæquilateralibus, 3-septatis, loculis mediis biguttulatis, atro-fuscis, demum subopacis, 19-24 \approx 9-12; paraphysibus ascorum longitudinem vel paullum superantibus, crassis, guttulatis et laxè ramosis.

Hab. ad folia emortua *Fourcroyæ longævæ* pr. Coimbra Lusitanicæ. — Differt a proxima *L. clivensi* præcipue perithe-

ciis minoribus, ascis elongatis, sporidiis duplo latioribus, sublanceolatis.

- *206. **Leptosphæria translucens** Winter Contr. Fl. Myc. Lus. V, p. 15. 6678

— Peritheciis subsparis, tectis, translucens, subglobosis, ostiolo punctiformi epidermidem perforantibus, fere coriaceis, atris, 0,2-0-24 mm. diam.; ascis cylindræis, deorsum parum attenuatis, sessilibus, 75-95 \approx 10-11, octosporis; sporidiis distichis, cylindræis, utrinque rotundatis, interdum parum curvatis, 6-cellularibus, cellula quarta (ab ascis apice numerata), perparum incrassata, melleis, demum fuscis, 21-24 \approx 5-6; paraphysibus filiformibus, ascos superantibus.

Hab. ad folia arida Fourcroyæ, Coimbra in Lusitania (MOLLER).

- *210. **Leptosphæria phormicola** Cooke et Harkn. in Grevillea XIV, 6679

p. 10. — Gregaria; peritheciis punctiformibus, erumpentibus, epidermide tectis, dein fissurato-emergentibus, atris, convexulis, papillatis; ascis clavatis, octosporis; sporidiis sublanceolatis, utrinque rotundatis, biserialibus, triseptatis, vix constrictis, pallide fuscis, 22 \approx 6.

Hab. in Phormio in California (HARKNESS).

- *212. **Leptosphæria stricta** E. et E. in Journ. of Myc. I, p. 43. — 6680

Peritheciis sparsis, subovatis, membranaceis, epidermide nigrefacta, ostiolo punctiformi perforata, tectis, dein prominentibus; ascis 100-125 \approx 15-20; paraphysibus numerosis; sporidiis 1-2-seriatis, fusiformibus, pallide luteis, 5-septatis, ad septa leniter constrictis, utrinque obtusis, 30-40 \approx 7-9.

Hab. in culmis Spartinae, Cape May Amer. bor. (CAROLINA TREAT).

- *213. **Leptosphæria Spartinae** Ell. et Ev. in Journ. of Myc. 1885, 6681

p. 43. — Peritheciis gregariis, $\frac{1}{4}$ mm. diam., epidermide nigrescente, ostiolo papilliformi, late pertuso rupta, elevata, tectis; ascis 115-120 \approx 12-15, paraphysibus filiformibus obvallatis, 8-sporis; sporidiis distichis, late fusoideis, pallide luteis, 5-septatis, 35-45 \approx 8-10.

Hab. in culmis emortuis Spartinae, Cape May Amer. bor. (CAROLINA TREAT).

- *214. **Leptosphæria lineolaris** Niessl in Herb., Linhart fung. hung. 6682

n. 466. — Peritheciis minutis, circiter 0,15-0,20 mm. diam., seriatis dispositis, saepe in lineas breves confluentibus, submembranaceis, depresso globosis vel e latere compressis elongatisque, atro-

fuscis, glabris, ostiolo punctiformi; ascis elongato-oblongis, stipite brevi, 43-58 \approx 10-12, octosporis, paraphysibus longioribus obvallatis; sporidiis 2-3-stichis, fusiformibus, inæquilateralibus v. parum curvatis, obtusiusculis, 5-7 locularibus, vix nodulosis, dilute lutescentibus, 19-24 \approx 3-4.

Hab. in culmis exsiccatis Airæ cæspitosæ prope Petrozsény Hungariæ.

- * 215. **Leptosphæria typhiseda** Sacc. et Berl. in Rev. Myc. 1886, p. 33. 6683
 — Peritheciis sparsis, minutis, primum tectis, dein epidermide perforata emergentibus, globosis globosove-conoideis, ostiolo minuto, papillato instructis, $\frac{1}{3}$ mm. diam., atris; ascis cylindræis, sursum rotundatis, basi breviter stipitatis, paraphysibus filiformibus, simplicibus obvallatis, 70-80 \approx 14, octosporis; sporidiis oblique vel recte monostichis, cylindræo-clavulatis, apice rotundatis, deorsum acutioribus, 24-28 \approx 7, olivaceis, 5-6-septatis, ad septum medium vix constrictis.

Hab. in foliis emortuis putrescentibus Typhæ angustifoliæ, Algeria. — *Lept. helminthosporæ* affinis, a qua præ ceteris, matrice distinguenda.

- * 216. **Leptosphæria pachycarpa** Sacc. et March. in Rev. Myc. 1885. 6684
 — Peritheciis gregariis, erumpenti-superficialibus, globoso-papillatis, $\frac{1}{3}$ mm. diam., duriusculis, atris; ascis tereti-clavulatis, breve stipitatis, paraphysatis, 140 \approx 18, octosporis; sporidiis distichis, fusoides, utrinque acutiusculis, rectis curvulisve, 5-septatis, ad septum medium leniter constrictis, 35-40 \approx 6,5-7,5, fuliginæis, loculis extimis subhyalinis.

Hab. in culmis Graminum majorum in Belgio. — Peritheciis crassiusculis sporidiisque utrinque subhyalinis statim diagnoseitur.

- * 217. **Leptosphæria rhodophæa** Bizz. Fung. Ven. nov. v. crit. p. 2, t. II, f. 3, a, b, c, d. — Peritheciis sparsis vel 2-3-aggregatis, 6685
 subimmersis, globoso-depressiusculis, ostiolo papillulato, vix exserto, pertusis, 0,5 mm. diam; ascis cylindræo-clavatis, 8-sporis, 80-100, parte sporif. 70-75 \approx 10, paraphysatis; sporidiis distichis, fuliginæis, fusiformibus, 5-septatis, ad septa intermedia constrictis, loculo medio crassiore et rotundato, 28-30 \approx 7-7,5.

Hab. in culmis emortuis Arundinis Donacis in horto botanico patavino.

- * 227. **Leptosphæria Hierochloæ** Oudem. Cont. à la Flore myc. de No- 6686
 waja Semlja p. 10, t. I, f. 3. — Peritheciis foliicolis, sparsis, pri-

mitus occultatis, postremo erumpentibus, subglobosis, atris, structuræ parenchymatosæ flaccidæ, simpliciter perforatis (i. e. ostiolo nullo vel vix prominente), 180-250 μ . diam.: ascis brevissime pedicellatis, parva curvatis, paraphysatis, 90-95 \approx 30, membrana ubique æquali, 8-sporis; sporidiis tristichis, oblongo-fusoideis, rectis, utrinque obtusatis, mellei coloris, 5-septatis, ad septa levissime constrictis, 30 \approx 9, loculo quarto omnium maximo.

Hab. in foliis Hierochloæ alpinæ, Nowaja Semlja.

- *230. **Leptosphæria præclara** Karst. in Hedw. 1884, n. 1, p. 2. — Rev. atque Synop. Ascom. fenn. p. 54. — Peritheciis sparsis vel subgregariis, depresso sphæroideis, subcutaneo-erumpentibus, contextu parenchymatico, tenui, dilute olivaceo-fuscescente, glabris, ostiolo vix prominulo pertusis, circ. 150 μ . lat.; ascis elongato-vel oblongato-subclavatis, sessilibus, curvatis, 56-100 \approx 13-26; sporidiis octonis, distichis vel subtristichis, oblongato-fusoideis, curvulis vel inæquilateralibus, 5-, raro 3-septatis, loculo tertio subinde crassiore, ad septa leviter constrictis, læte luteolis, 20-32 \approx 8-9; paraphysibus haud bene discretis.

Hab. in caulibus emortuis Asparagi officinalis ad Muistiiala Fennicæ.

- *237. **Leptosphæria clavicularpa** E. et E. in Jour. of Myc. I, p. 43. — Peritheciis plerumque seriatis, in lineas $\frac{1}{4}$ -1 cm. longas dispositis, epidermide nigrefacta tectis, dein prominentibus et epidermidem, ostiolis vix conspicuis, perforantibus; ascis latis, oblongo-cylindraceis, 75-100 \approx 22-25, obtusis, basi constrictis, paraphysibus filiformibus; sporidiis stipatis, polystichis, clavato-oblongis, leniter curvatis, apice obtusis vel rotundatis, basi abrupte constrictis, 7-9-septatis, maturis luteo-brunneis, 25-40 \approx 8-10, ad septa leniter constrictis; spermatiiis in peritheciis similibus, oblongo-cylindraceis, leniter curvatis, hyalinis, 3-5 \approx $1\frac{1}{4}$.

Hab. in culmis emortuis Phragmitis communis, Spirit Lake, Iowa Amer. (PROF. S. C. ARTHUR).

- *247. **Leptosphæria asparagina** Karst. in Hedw. 1884, n. 1, p. 1. — Rev. atque Synop. Ascom. fenn. p. 55. — Peritheciis subsparsis vel gregariis, hinc inde in series dispositis, sphæroideis vel sæpius sphæroideo-applanatis, hyphis repentibus, fuliginis obsessis, epidermide velatis, nigris, papilla conoidea, sæpe perithecium dimidium æquante, prominula præditis, circ. 2 mm. lat.; ascis cylindraceo-clavatis, 95-105 \approx 9-10; sporidiis octonis, distichis, elongato-fusoideis, ut plurimum curvulis, 7-septatis, ad septa leviter

vel vix constrictis, eguttulatis, dilute flavis, 24-30 \approx 4,5-6; paraphysibus filiformibus, bene discretis, ascos superantibus.

Hab. ad caules *Asparagi officinalis* emortuos in Mustiala Fenniae. — Status spermogonicus *Phoma asparagina*.

- *252. **Leptosphaeria lycopodica** Peck 38 Rep. St. Mus. pag. 105, 6690
tab. 2, fig. 16-19. — Peritheciis minutis, 120-150 μ . diam., sphaeroideis vel ellipsoideis, erumpentibus, nigris; ascis subcylindraceis, subsessilibus, 65-75 \approx 8-10; sporidiis oblongis vel subfusiformibus, pallide coloratis, 3-5-septatis, 20-25 \approx 4-5; paraphysibus filiformibus.

Hab. in pedunculis emortuis *Lycopodii clavati* in montibus Adirondack Amer. bor.

- *262. **Leptosphaeria apocalypta** (Rehm) Winter Die Pilze II, p. 442, 6691
Xenosphaeria apocalypta Rehm Ascomyc. n. 346. — Peritheciis sparsis vel sub gregariis, superficialibus, majusculis, fere globosis, atris, minute papillatis, guttulas oleosas seriatim dispositas, continentibus; ascis clavatis, tunica apice incrassata, 4-6-sporis, 100-120 \approx 12; sporidiis monostichis, late ellipsoideis, vel oblongis, saepe curvis vel inaequalateralibus, 4-8 cellularibus, obscure brunneis, 24-31 \approx 9-10,5; paraphysibus? crassis, guttulatis longe filiformibus.

Hab. in superficie thalli *Stereocauli alpini* in Germania.

- *263. **Leptosphaeria Sphyradiana** (Lahm) Winter Die Pilze II, p. 442, 6692
Xenosphaeria Sphyradiana Lahm in litt. et in Arnold Lichen. Fragm. XVI, p. 29. — Peritheciis punctiformibus, nigris, thallo immersis; ascis cylindraceis, elongatis, 8-sporis, paraphysibus distinctis, validis obvallatis; sporidiis 4-cellularibus, saepe 4-guttulatis, medio leniter constrictis, utrinque obtusis, brunneis, 24-27 \approx 6-9.

Hab. in pagina superiore thalli *Sphyradii fungiformis* in Germania.

HEPTAMERIA Rehm et Thüm. — Sacc. Syll. II, p. 88.

- *1. **Heptameria uncinata** (Niessl) Rehm Ascomyc. fasc. XV, n. 735. 6693
Leptosphaeria uncinata Niessl in litt. *Lept. obesa* Rehm Ascomyc. Lojk. pag. 51, n. 70. — Peritheciis parenchymaticis brunneis, ascis clavatis, octosporis, 150 \approx 18; sporidiis fusoideis, rectis vel subcurvatis, acutatis, 9-cellularibus, cellula media magna, 9 μ .

longa, fusca nucleo magno, centrali prædita, cæteris cellulis latiore $42 \approx 5$, distichis; cellulis lateralibus fuscidulis; paraphysibus ramosis.

Hab. ad caules siccos Artemisiæ campestris in horto Eszterházyano Kaposvár (Somogy) Loika et prope Brünn in Germania. — Species quoad sporidia egregia!

CLYPEOSPHÆRIA Fuck. — Sacc. Syll. II, p. 90.

- * 1. **Clypeosphæria Morreni** (West.) Sacc. in Rev. Myc. 1884. A *Clypeosphæria Notarisii*, cui peraffinis, ascis $98 \approx 8-10$; sporidiis cylindræis, curvulis, utrinque rotundatis, $20-21 \approx 4,5$, 3-septatis, non constrictis, fuliginis dignoscitur.

Hab. in caulibus Epilobii spicati, Louette-Saint Pierre Galliæ (G. AUBERT).

CHÆTOSPHÆRIA Tul. — Sacc. Syll. II, p. 92.

- * 1. **Chætosphæria ornata** Harkn. New Calif. Fungi p. 25. — Peritheciis superficialibus, orbicularibus, nigris, non rugosis, 360μ diam., setis hyphoideis, $\frac{1}{2}$ mm. vel amplius longis, nigris, non acuminatis, quandoque septatis; ascis octosporis, clavatis, in pedicellum longum, guttulis oleosis vel granulis fæctum, desinentibus, $100 \approx 8-10$; paraphysibus vix visibilibus; sporidiis fusiformibus, triseptatis, loculo medio olivaceo-brunneo, extimis hyalinis, $16 \approx 6$.

Hab. in corticibus putridis Eucalypti, San Francisco Californiæ.

- * 3. **Chætosphæria Saccardiana** Schulz. in Rev. Myc. 1884 et Ill. Fung. Slav. n. 74. — Peritheciis densiuscule gregariis, globoso-depressis, subsuperficialibus, $\frac{1}{4}$ mm. diam., nigris, rugulosis, hyphulis laxè vestitis; ostiolo cylindræo, truncato, perithecio plus quam dimidio breviorè; ascis tereti-clavatis, brevè stipitatis, paraphysatis, octosporis; sporidiis subdistichis oblongo-fusoideis, medio constrictis, 1-dein, 3-septatis 4-guttulatis, sæpius curvulis, utrinque obtusiusculis, dilute fuscis.

Hab. in ligno putrescente Carpini in Slavonia, socia forma conidiophora *Helminthosporoidea*.

- * 4. **Chætosphæria pezizæformis** Schulz. in Rev. Myc. 1881 et Ill. Fung. Slav. n. 62. — Peritheciis laxè v. dense gregariis, globosis, superficialibus, $\frac{1}{6}-\frac{1}{4}$ mm. diam., e lutescenti nigris, asperulis, in-

ter hyphas demetiaceas (*Helminthosporii obclavati*) interspersis, apice convexis, tandem collabascendo umbilicato-subpezizæformibus; ascis crasse clavatis, deorsum acuminatis, brevissime stipitatis, indistincte paraphysatis, octosporis; sporidiis subtristichis, fusoides, incurvatis utrinque obtuse attenuatis, 7-septatis, ad septa non constrictis, 44-50 \approx 8-10, fusco-lutescentibus, loculis extimis hyalinis,

Hab. in ramis decorticatis Carpini Betuli, Vinkovce Slavoniæ.

MELANOMMA Nits. et Fuck. — Sacc. Syll. II, p. 98.

1. **Melanomma Pulvis-pyrius** (Pers.) Fuck. — Sacc. Syll. II, p. 99. 3223
— Ex autopsia speciminum a cl. H. Fabre missorum huc ducendum *Melanomma Julii* Fab. — Sacc. Syll. II, p. 105.

*1. **Melanomma Pulviscula** (Karst.) Berl. et Vogl. *Sphæria Pulviscula* Karst. in Hedwigia 1884, p. 60. — Peritheciis confertis vel crustaceo-congestis, raro sparsis, superficialibus, ovoideis, ostiolo sat brevi, conoideo, sublevibus, atris, latit. circ. 0,2 mm.; ascis clavatis, pedicellatis, 45-60 \approx 6-8; sporidiis octonis, di-vel subtristichis, elongatis, curvulis, 3-septatis, ad septa leviter vel vix constrictis, loculo secundo leviter incrassato, eguttulatis, dilutissime fuscescentibus, diaphanis, 11-15 \approx 3-3,5. 6698

Hab. in ligno indurato pineo ad Mustiala Fenniæ.

*2. **Melanomma Briardianum** Sacc. Fungi Gallici Ser. V, n. 2213. — 6699
Peritheciis gregariis sæpeque 2-4 arcte confluentibus, globoso-conicis, vix $\frac{1}{2}$ mm. diam., breve, subinde obsolete papillatis, durissimis, atris, extus subplicatis; ascis tereti-clavatis, copiose paraphysatis, apice rotundatis, 160 \approx 16, octosporis; sporidiis oblique monostichis, fusoides, curvulis, utrinque attenuatis, 36-40 \approx 7-8, 3-septatis, ad septum medium constrictis, loculis mediis sæpe inflatis, 1-guttulatisque. olivaceis, extimis paullo pallidioribus.

Hab. in ramis decorticatis lignoque corrupto Salicis et Ribis, pr. Troyes Galliæ (BRIARD). — Species forma peritheciolorum sporidiorumque facile, ut videtur, distinguenda.

*4. **Melanomma Mussatianum** Sacc. et Roum. in Rev. Myc. 1883, 7000
tab. 40, fig. 11. — Peritheciis dense gregariis, superficialibus, globoso-conicis, obtuse papillatis, $\frac{1}{2}$ mm. diam., nigris, contextu radiato, duriusculo; ascis anguste cylindricis, breve stipitatis, paraphysatis, 120-140 \approx 7-8, octosporis; sporidiis 1-stichis v. subdistichis, fusiformibus, utrinque acutis, rectis vel curvulis, 25-30 \approx 5,

3-septatis, ad septum medium leniter constrictis, olivaceo-fuliginis.

Hab. in ligno Quercus, Fagi etc. in Gallia.

- *12. **Melanomma effugiens** (Karst.) Berl. et Vogl. *Sphæria effugiens* 7001
 Karst. Rev. atque Synop. Ascom. fenn. p. 48. — Peritheciis laxe gregariis vel subsparis, erumpentibus, subinde demum superficialibus, subsphæroideis, levibus, atris, ostiolo conoideo, obtuso, dein pertuso, subinde confluyente, 2-3 mm. diam.; ascis cylindraco-clavatis, 105-120 μ . long. (parte sporif.); sporidiis octonis, oblique monostichis, oblongatis, utrinque obtusis, 3-septatis, ad septa leviter constrictis, melleis, 18-22 \approx 7-8,5; paraphysisibus haud bene discretis.

Hab. in cortice et ligno ramorum aridorum Ulmi in Mustiala Fennicæ. — Status pycnidicus et spermogonicus sociis obviis, peritheciis subsimilibus; sporulis ellipsoideis, simplicibus, fuscis, 7-8 \approx 4; spermatis elongatis, hyalinis, rectis, 3-4 \approx 5.

13. **Melanomma subsparsum** Fuck. — Sacc. Syll. II, p. 102, Winter in 9235
 Hedwigia 1884, p. 100. — Asci oblongo-cylindraco, apice rotundati, subsessiles, 57-63 \approx 9.

- *13. **Melanomma subdispersum** (Karst.) Berl. et Vogl. *Sphæria sub-* 7002
dispersa Karst. in Hedwigia 1884, p. 57. — Peritheciis sparsis, superficialibus subinde basi subinnatis, ovoideis, astomis v. demum poro pertusis, scabriusculis, atris, latit. circ. 0,3 mm. diam.; sporidiis elongato-vel oblongato-fusoideis, rectis, 3-septatis, ad septum medium leviter constrictis; loculis uniguttulatis, flavidis, 18-25 \approx 5-6,5.

Hab. ad corticem Betulæ albæ in Sibiria occidentali prope Samarova (EDW. WAINIO). — Statum ejus conidicum sistit socium obvium *Helminthosporium longipilum*.

- *19. **Melanomma truncatulum** Sacc. et Roum. in Rev. Myc. 1883, 7003
 tab. 40, fig. 12. — Peritheciis hinc inde subaggregatis, superficialibus, carbonaceis, nigris $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam. subinde duobus coalitis, ostiolo obtuse truncato, inæquali, interdum obliquo; ascis cylindracois, brevissime stipitatis, paraphysatis, octosporis, 130-140 \approx 10; sporidiis oblique 1-stichis, oblongo-fusoideis, 3-septatis, ad septa constrictis, 20 \approx 7, loculis extremis subhyalinis, mediis olivaceo-fuliginis.

Hab. in ramis decorticatis Salicis in Gallia. — *Mel. medio* affine.

- *20. **Melanomma erraticulum** (Karst.) Berl. et Vogl. *Sphæria erra-* 7004

ticula Karst. Rev. atque Synop. Ascum. fenn. p. 48. — Peritheciis sparsis, superficialibus, obovoideis, vulgo vertice in ostiolum conoideum, brevissimum, pertusum attenuatis, atris, glabris, levibus, circ. 2 mm. diam.; sporidiis monostichis, oblongatis, rectis vel curvulis, 3-septatis, luteolo-subfuscescentibus, 14-19 \approx 4,5-6; paraphysibus non bene discretis.

Hab. in cortice Aceris platanoidis in insula Runsala.

- *32. **Melanomma crypticum** (Karst.) Berl. et Vogl. *Sphæria cryptica* 7005
Karst. in Hedw. 1884, n. 4, p. 6. — Rev. atque Synop. Ascum. fenn. p. 49. — Peritheciis subsparis, primitus cortice tectis, deinde ea divulsa nudatis, sphæroideo-subapplanatis, interdum inæqualibus, glabris, subatris, vulgo papillis minusculis, obtusissimis, 3-5 mm. lat.; sporidiis fusoides-vel ovoideo-oblongatis, 3-5-septatis, ad septa vix vel leviter constrictis, solito rectis, flavis, 13-18 \approx 5-6.

Hab. in ramulis emortuis Viburni Opuli pr. Vasa Fennicæ.

- *37. **Melanomma taphrinoides** Sacc. et Schulz. in Rev. Myc. 1884. 7006
Schulz. Ill. Fung. Slav. n. 695. — Peritheciis gregariis, ligno immersis v. semiimmersis et superficialibus, globulosis, carbonaceis, 0,3-0,4 mm. diam., ostiolo obtusissimo et obsolete; ascis cylindricis, paraphysatis, breve stipitatis, octosporis; sporidiis oblique 1-stichis, ovato-oblongis, utrinque rotundatis, 3-septatis, ad septa, præcipue medium, constrictis, 18-22 \approx 8, fuligineis, pallidius 4-guttatis.

Hab. in ramis emortuis Salicis prope Vinkovce Slavoniæ. — Affine *Melanommati cinereo*.

41. **Melanomma rhodomelum** (Fr.) Sacc. Syll. II, p. 109, Winter in 3263
Hedwigia 1885, p. 100. — Perithecia superficialia, sparsa, levia, glabra; asci substipitati, 70-87. \approx 7-8,5; sporidia mono-vel subdisticha, 14-16 \approx 5-5,5; paraphyses conglutinatæ.

- *47. **Melanomma seminis** (Cooke et Hark.) Berl. et Vogl. *Sphæria* 7007
seminis Cooke et Harkness in Grevillea XIII, p. 18. — Superficiale, gregarium; peritheciis $\frac{1}{3}$ - $\frac{1}{2}$ mm. d., atris, opacis, subglobosis, quandoque subconfluentibus, ostiolo pertuso; ascis clavatis; sporidiis cylindræis, rectis curvulisve, 5-septatis, fuscis, 50 \approx 6.

Hab. in ramis Baccharidis in California (HARKNESS).

- *49. **Melanomma populinum** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7008
Ill. Fung. Slav. n. 155. — Peritheciis gregariis, globoso-hemisphaericis, ligno basi infossis, vertice obtusiusculis, intus albidis, extus nigris, levibus, $\frac{1}{4}$ mm. diam.; ascis tereti-clavulatis, deorsum attenuatis, paraphysatis, octosporis; sporidiis distichis, fusoides. cur-

vulis, 26-30 \approx 6, 7-9-septatis. ad septa constrictis, initio 8-10-guttulatis, fuliginis.

Hab. in ligno Populi, socio *Coniothecio* pr. Vinkovce Slavoniæ.

- * 50. **Melanomma sulcatum** (Ell.) Berl. et Vogl. *Sphæria sulcata* Ell. 7009
in Torr. bot. Club. 1883, p. 53. — Superficiale, dense gregarium; peritheciis ovatis, 330 μ diam., atris, non expositis, ostioliis tuberculiformibus, latis poro amplo, sæpe circulari pertusis; ascis clavato-cylindraceis, 130 \approx 22; paraphysibus copiosis; sporidiis distichis, late naviculari-fusiformibus, septatis, primo luteis dein brunneis, 35-45 \approx 11-15.

Hab. in caulibus emortuis *Salviæ* (sage brusch) Utah in America boreali (HARKNESS).

TREMATOSPHERIA Fuck. — Sacc. Syll. II, p. 115.

- * 1. **Trematosphæria congesta** (Cooke) Berl. et Vogl. *Psilosphæria* 7010
congesta Cooke Austr. Fungi p. 57. — Gregaria, conferta, atra; peritheciis subcylindricis, convexis, glabris, poro pertusis; ascis subclavatis; sporidiis fusiformibus, triseptatis, leniter constrictis, fuliginis, 40 \approx 10.

Hab. in corticibus, Twofold Bay in Australia.

- * 10. **Trematosphæria melina** (Berk. et Br.) Sacc. Syll. II, pag. 118, 3294
Winter in Hedwigia 1885, pag. 102. — Perithecia primitus fere tota insculpta, $\frac{3}{4}$ mm. diam.; asci cylindraceo-subclavati, deorsum longe attenuati, 175-192 \approx 21-26; sporidia oblique mono-vel subdisticha, oblongo-elliptica, oblonga v. naviculiformia, plerumque utrinque subacutata, sæpe parum inæquilateralia, 3-5-septata, ad septa non constricta, fusca 28-44 \approx 9-13; paraphyses filiformes.

- * 16. **Trematosphæria buellioides** Rehm Beiträge Angsburg. Pilzfl. 7011
pag. 78. — Peritheciis magnitudinis *Buellie punctate*, atris, opacis, in ligni superficie vel inter fibrillas sessilibus, globosis primitus, dein concavis, *Buellie punctate* instar, in papillam brevem perforatam protractis; ascis clavatis, 75 \approx 10, paraphysibus articulatis, superne bifurcatis; cinctis octosporis; sporidiis distichis elongato-ellipticis, utrinque obtusis, 2-4 locularibus, medio valde constrictis, itemque ad septa, flavescentibus 15 \approx 5.

Hab. ad lignum pineum fabrefactum prope Augsburg Germaniæ.

CARYOSPORA De Not. — Sacc. Syll. II, p. 122.

1. **Caryospora Putaminum** (Schw.) De Not. — Sacc. Syll. II, p. 122, 3312
Winter in Hedwigia 1886, p. 102. — Exemplaria perfecte evolu-
ta, americana sporidia 108-140 \approx 50-65 habent.
2. **Caryospora callicarpa** (Curr.) Nits. et Fuck. — Sacc. Syll. II, 3313
p. 123, Winter in Hedwigia 1886, p. 102. — Asci 210-260 \approx 60-
70; sporidia 87-108 \approx 30-47.

SPORORMIA De Not. — Sacc. Syll. II, p. 123.

- *20. **Sporormia pentamera** Oud. Aanw. IX-X, pag. 74. — Sporidiis 7012
tristichis, (?) pentameris, 80 \approx 16-17; articulis duobus ultimis ob-
scure conicis, 18-19 μ . longis, tribus intermediis vero 11-12 μ . lon-
gis, omnibus fuscis, mucro obductis; ascis absque pedicello, 190 \approx 38,
itaque lanceolatis, obtusis.

Hab. in fimo Cuniculorum in Hollandia (VAN LEDDEN HUL-
SEBOSCH).

- *23. **Sporormia Brassicæ** Grove in Journ. of Bot. 1886, p. 132, t. 266, 7013
f. 1. — Peritheciis gregariis, magnis, usque ad $\frac{1}{3}$ mm. d., globosis,
atris, levibus, nitidis, ostiolo minute papillato, obsoleto, inter fibras
nidulantibus, demum pæne superficialibus; ascis subfasciculatis, apa-
raphysatis, clavatis, 50-60 \approx 15-18 μ . (parte sporif.), infra in stipi-
tem filiformem, ascum æquantem v. paullo breviorum, 2-3 μ . crass.
attenuatis, apice rotundatis; sporidiis tristichis, infra monostichis,
linearibus, tetrameris, olivaceis, dein fuscis, 25-35 \approx 4-5, loculis duo-
bus interioribus oblongis, truncatis, 5-7 μ . longis, interioribus sub-
conicis v. oblongis, 8-10 μ . long., non facile secedentibus.

Hab. in caulibus Brassicæ oleracæ putrescentibus, Stree-
tly pr. Birmingham Brit. — Asci et perithecia iis *S. octomera*
similia, at illi cum sporidiis fere duplo minores.

- *27. **Sporormia immersa** Zukal Ein neu. Pilze, Myc. Bakt. p. 8, t. XV, 7014
fig. 1. — Peritheciis globosis, 500-600 μ . altis, coriaceis, nigris,
ostiolo distincte papillæformi prominulis; ascis acuminatis, angu-
ste clavatis, longe pedunculatis, octosporis, 240-260 \approx 18-24, p. sp.
curvis vel sinuosis; sporidiis bi-tristichis, subimbricatis, 13-15-lo-
cularibus, brunneo-nigris, strato mucoso obvolutis, 70-90 \approx 9-11,
fusoides, septis constrictis.

Hab. in fimo Cuniculorum, Wien Austria.

PSEUDOVALSA Ces. et De Not. — Sacc. Syll. II, p. 135.

10. **Pseudovalsa tubulosa** (B. et C.) Sacc. Syll. II, pag. 137. — Huec 3358
teste Cooke (Grevillea XIV, p. 48) ducenda est *Calospora tribu-
losa* (B. et C.) Sacc. Syll. II, p. 232.

MELOGRAMMA Tul. — Sacc. Syll. II, p. 144. *

*5. **Melogramma Meliæ** Curtis in Herb. (nec Schweinitz.) Cooke in Grevillea XIII, p. 103. — Acervulis erumpentibus, atris, subdiscoideis vel oblongis; peritheciis prominentibus, demum subliberatis, rugosis, apice applanato; ascis clavatis, majusculis octosporis; sporidiis sublanceolatis, triseptatis, nec constrictis, rarius quinque-septatis, 38-42 \approx 10, fuscis.

Hab. in ramis Meliæ in Amer. bor.

*7. **Melogramma platyroum** (Berk. et Curt.) Cooke in Grevillea XIII, p. 103, *Hypoxyton platyroum* Berk. in Herb. — Peritheciis botryoideo-aggregatis, erumpentibus, subeffusis, rarius liberis, pulvere griseo subtus conspersis; ascis clavatis, octosporis; sporidiis fusiformibus, triseptatis, hyalinis 20-22 \approx 4.

Hab. in ligno denudato in Pennsylvania Americæ borealis.

Sect. 7. Hyalophragmiæ Sacc.

MASSARINA Sacc. Syll. II, p. 153.

1. **Massarina eburnea** (Tul.) Sacc. Syll. II, p. 153. *Var. Salicis* Karst. in Hedw. 1884, n. 6, pag. 1. — Rev. atque Synop. Ascom. fenn. p. 40. — Peritheciis sparsis vel subgregariis, initio cortice innatis, dein emergentibus vel erumpentibus, sphæroideis, papilla obtusa, poro ovali pertusa, atris, 3 mm. lat. vel paullo ultra; ascis cylindræis, breviter stipitatis, 185 \approx 15; sporidiis monostichis v. subdistichis, fusoideo-oblongatis, eguttulatis, chlorino-hyalinis, circulo gelatinoso, 2 μ . crasso circumdatis 30-33(sine muco) \approx 9.

Hab. in latere inferiore corticis Salicis cinereæ ad Muttiala Fennicæ. — A typo recedit peritheciis sparsis, exacte sphæroideis, non annulato-impressis sporidiisque vulgo rectis.

METASPHÆRIA Sacc. Syll. II, p. 156.

*3. **Metasphæria rothomagensis** Roum. in Rev. Myc. 1885, p. 23, tab. 4, fig. 6. — Peritheciis sparsis, minutis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam. fuligineo-nigris, epidermide tectis, demum erumpentibus, rotundatis conoideis, ostiolo latiusculo, vix papillato; ascis clavato-cylindræis, breviter stipitatis, paraphysibus filiformibus, tortuosis, coalitis obvallatis, 95-100 \approx 15 octosporis; sporidiis oblongis, utrinque acutis vel obtusis, leviter curvulis, 28 \approx 6, triseptatis, hyalinis.

Hab. in caulibus Lythri Salicariæ, Seine Inf. Gallicæ.

- * 4. **Metasphæria Annæ** Oudem. Contr. à la Flore myc. de Nowaja 7019
Semlja p. 12, t. I, f. 9. — Peritheciis sparsis, minutis 200 μ . d.,
depreſſe globosis, ostiolo vix papillato, laxè parenchymatoſis, atris,
glabris; aſcis paucis, ovato-oblongis, inæquilateris, ſeſſilibus, 30
 \approx 50, 8-ſporis, membrana (ſaltem in ſtatu non plene maturo) tu-
meſcente; ſporidiis, ut videtur, triſtichis, fuſoideis, rectis, utrinque
obtuſis, hyalinis, ut plurimum 6-ſeptatis, 60 \approx 14 (abſque ſtrato mu-
cilaginoſo, 3-4 μ . crasso, ſporidia obducente), loculis 7 quoad capa-
citatem a ſe invicem valde diverſa, ut patet e numeris ſequenti-
bus, quibus eorum altitudo indicatur, 6 μ ., 7 μ ., 9 $\frac{1}{3}$ μ ., 11 $\frac{2}{3}$ μ ., 11 $\frac{2}{3}$
 μ ., 9 $\frac{1}{3}$ μ ., 7 μ .

Hab. in Ranunculo nivali *var.* ſulphureo, Nowaja
Semlja.

- * 5. **Metasphæria Trollii** Karst. in Hedw. 1884, n. 6, p. 3. — Rev. atque 7020
Synop. Ascom. fenn. p. 43. — Peritheciis in greges minutos ſo-
ciatis, primitus epidermide tectis, deinde denudatis, applanatis, or-
bicularibus vel ellipſoideis, demum poro pertuſis, atris 3-4 mm.
lat.; ſporidiis octonis, diſtichis, cylindraceis, rectis, 4-guttulatis,
hyalinis, 11-15 \approx 1,5-2.

Hab. ad caules Trollii europæi pr. Olenji Maris glacialis.

- * 6. **Metasphæria xerophila** Sacc. et Malbr. Fung. Gall. ser. V, pag. 7021
2166. — Peritheciis ſparsis, minutis, epidermide initio tectis, de-
preſſo-globuloſis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam. breviuscule papillatis, nigris;
aſcis tereti-clavulatis, breve ſtipitatis, filiformi-paraphyſatis, 95-
100 \approx 14, octoſporis; ſporidiis oblique monochis v. diſtichis, ob-
longis, deorſum acutioribus, leniſſime curvis, 27 \approx 5, 3-ſeptatis,
hyalinis, non v. vix conſtrictis.

Hab. in caulibus emortuis Silenes Otitis, Rouen Galliæ. —
Ab affini *M. rupicola* ſporidiis clavulatis, non conſtrictis etc. di-
ſtinguenda.

- * 11. **Metasphæria algeriensis** Sacc. et Berl. in Rev. Myc. 1886, p. 35. 7022
— Peritheciis gregariis vel ſubſparsis, atris, primum tectis, dein
epidermide ſecedente emergentibus, conoideis vel globoso-conoideis;
aſcis cylindraceis, ſurſum leniter attenuatis, 70-80 \approx 14 breviter-
que ſtipitatis, paraphyſibus filiformibus, aſco longioribus, curvulis
obvallatis; ſporidiis diſtichis, cylindraceis, toruloſis, 5-locularibus,
18-20 \approx 5, hyalinis.

Hab. in caulibus exſiccatis Cirsii gigantei et Meſem-
bryanthemi edulis, Algeria.

- * 12. **Metasphæria depressula** Sacc. et Roum. in Rev. Myc. 1883, t. 39, 7023

f. 7. — Peritheciis dense gregariis, $\frac{1}{4}$ – $\frac{1}{3}$ mm. diam., initio epidermide velatis, dein denudatis, globoso-depressis, dein collabescendo umbilicatis, ostiolo brevi papillato; ascis cylindraceis, breve stipitatis, 80–90 \approx 12, parce paraphysatis, octosporis; sporidiis distichis fusoideis, loculo secundo inflato, 30 \approx 5, utrinque obtusiusculis, subhyalinis.

Hab. in caule Umbelliferarum in Gallia. — Affinis *M. Lathyri*, a qua differt peritheciis majoribus et magis depressis, sporidiorum articulo secundo magis inflato.

- *20. **Metasphæria Ferulæ** Bacc. et Avett. Contr. Stud. Mic. roman. 7024 p. 5, t. XVI, f. 4. — Peritheciis punctiformibus, sparsis vel interdum in series longitudinales dispositis, 165 μ . latis, primitus epidermide tectis dein superficialibus, sursum crassis, ostiolo minuto perforatis; ascis cæspitosis, breviter stipitatis, basi valde dilatatis, apice (membrana crassa) obtusis, 80 \approx 15, 8-sporis; paraphysibus filiformibus, ramosis, septatis obvallatis; sporidiis subfusiformibus, in asci parte inferiori congestis, tri-vel tetraseptatis, dimidia superiori parte crassiuscula, 18 \approx 5,5.

Hab. in ramulis emortuis *Ferulæ communis* in Horto Panisperna, Romæ Ital. mer.

- *31. **Metasphæria plagarum** (Cooke et Hark.) Berl. et Vogl. *Sphæria plagarum* Cooke et Harkn. in Grevillea XIII, p. 19. — Gregaria, tecta, elevata; peritheciis subglobosis, atris, carbonaceis, in plagas consociatis, cuticulâ elevatâ convexâ tectis; ascis clavatis, sessilibus, octosporis; sporidiis lanceolatis, inordinatis, triseptatis, hyalinis, 18–20 \approx 4, utrinque acutis.

Hab. in cortice *Eucalypti* in California (HARKNESS).

- *41. **Metasphæria subsimilis** Schulz. et Sacc. in Rev. Myc. 1884, 7026 Schulz. Fung. Slav. n. 566. — Peritheciis laxè gregariis, globulosis, $\frac{1}{4}$ mm. diam., intus albis, peridermio, pustulatim elevato, tectis, ostiolo depresso, obtuso, vix erumpente; ascis clavulatis, brevissime crasseque stipitatis, longè filiformi-paraphysatis octosporis; sporidiis distichis ovato-oblongis, 15–20 \approx 6, utrinque rotundatis, 3-septatis, ad septum medium leniter constrictis, hyalinis.

Hab. in ramis corticatis *Carpini* prope Vinkovec Slavoniæ. — *Met. depressæ* affinis.

- *42. **Metasphæria corticola** (Fuck.) Sacc. Syll. II, p. 166, var. **Perisicæ** Sacc. et Schulz. in Rev. Myc. 1884, Schulz. Ill. fung. slav. n. 681. — A typo præcipue differt sporidiis distichis, 12–17 \approx 4–6, fusoideis, 3-septatis, haud constrictis, hyalinis, ascis clavulatis.

Hab. in ramis *Persicæ vulgaris* pr. Vinkovce Slavoniæ.

- *42. **Metasphæria helvetica** Sacc. et Berl. Misc. Myc. II, p. 19, n. 84, 7027
tab. X, f. 22. — Peritheciis gregariis, subcutaneis, minutis, $\frac{1}{4}$ - $\frac{1}{3}$
mm. diam., breve papillatis, epidermide supra perithecia sæpe in-
fuscata; ascis cylindricis, breve stipitatis, paraphysatis, octosporis
130-140 \approx 18; sporidiis oblique 1-stichis v. subdistichis, oblongo-
clavulatis, deorsum acutioribus, 3-septatis, leviter constrictis, mi-
nute pluri-guttulatis, hyalinis, 30-32 \approx 10-11.

Hab. in ramulis *Loniceræ Xylostei* pr. Neuchâtel Helve-
tiæ (MORTHER).

- *43. **Metasphæria Myricæ** Peck in 38 Rep. St. Mus. pag. 105, tab. 2, 7028
fig. 24-26. — Peritheciis numerosis, late conoideis, 400-520 μ . la-
tis, epidermide adhærente tectis, nigris intus albis, ostioliis pertu-
sus; ascis clavatis, obtusis, 100-120 \approx 15-20; sporidiis stipatis, ob-
longis vel subfusiformibus, rectis vel curvulis, primum uniseptatis
quadrinucleatisque, septo constrictis, denique triseptatis, 30-40 \approx
10-12, hyalinis; paraphysibus filiformibus, conglutinatis.

Hab. in ramis emortuis *Myricæ Galees*, Caroga Amer. bor.

- *44. **Metasphæria conformis** (B. et Br.) Sacc. in Miscel. Myc. I, p. 6, 7029
Sphæria conformis B. et Br. Curr. Spher. Hook. — Peritheciis
majusculis $\frac{3}{4}$ mm. diam., tectis depressulis, papilla acuta erum-
pente; ascis crasse fusoides, subsessilibus, apice obtusis, 60-72 \approx
18-20, octosporis, aparaphysatis (an?); sporidiis distichis v. oblique
1-stichis, tereti-oblongis, utrinque rotundatis, curvulis, 3-septa-
tis, non constrictis, 20-24 \approx 7-8, 4-nucleatis v. pluriguttulatis, hya-
linis.

Hab. in ramis *Alni*, Troyes Galliæ, sociis *Cryptospora suf-
fusa* et *Cryptosporio Neesii*, quæ inter se metagenetice vere con-
nexa sunt, non vero, cum *Metasph. conformi* neque cum *Ditopel-
la*, quibus (mirum!) a Tulasneo subjunguntur. Eximia species, per-
peram ab auctoribus ut forma *Ditopellæ fusisporæ* habita. Cha-
racteres *Metasphæriæ*, sed natura potius *Calosporæ*, tamen vere
simplex. Sacc. l. c.

- *45. **Metasphæria cavernosa** (E. et E.) *Sphæria cavernosa* E. et E. 7030
in Journ. of Myc. I, p. 21. — Peritheciis coriaceo-carbonaceis,
atris (?), $1\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., interdum 2-3 unitis vel primo fibris
corticis tectis, parte superiore vix prominulis, ostiolo subtubercu-
liformi obtuso; ascis clavato-cylindraceis, 80-115 \approx 12-15; para-
physibus filiformibus; sporidiis uniseptatis vel sursum partim bi-
seriatis, acuto-ellipticis, plasmate 3-partito, hyalinis, 18-22 \approx 7-9.

Hab. in cortice Taxodii distichi, Darien Ga. (H. W. RAYENEL).

- * 48. **Metasphæria slavonica** Schulz. et Sacc. in Rev. Myc. 1884, 7031
Schulz. Ill. Fung. Slav. n. 694. — Peritheciis gregariis, ligno immersis, globosis, 0,2-0,3 mm. diam., intus albidis, ostiolo emergente, obtusiusculo, perforato; ascis cylindricis, paraphysatis, octosporis; sporidiis monostichis, oblongo-fusoideis, inæquilateris, utrinque obtusiusculis, 6-guttulatis, non constrictis, hyalinis.

Hab. in ramis decorticatis, superficie infuscatis Vitis Viniferæ var. silvestris pr. Vinkovce Slavoniæ.

- * 51. **Metasphæria Massarina** Sacc. in Misc. Myc. I, p. 22. — Peritheciis sparsis, subcutaneis, vix erumpentibus, globoso-depressis, obsolete papillulatis, $\frac{3}{4}$ mm. diam., subcoriaceis; ascis cylindraceis, breve stipitatis, apice rotundato-obtusis, 125-130 \approx 10-11, paraphysibus tenuibus, subinde ramulosis obvallatis, octosporis; sporidiis monostichis, oblongis rectis, utrinque obtuse rotundatis, 23-28 \approx 8-10, 5-6-septatis, non constrictis, nisi leniter ad medium, hyalinis. 7032

Hab. ad ramulos corticatos Ribis alpini pr. Neuchatel in Helvetia (MORTIER). — Pulchra species, ad *Massarinam* accedens, sed sporidiorum mucus nullus.

- * 52. **Metasphæria Robergia** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7033
Ill. fung. Slav. n. 858. — Peritheciis subcutaneis, erumpentibus, globulosis, obtuse papillatis, atris, intus pallidis, $\frac{1}{3}$ mm. diam.; ascis teretibus, apice rotundatis, basi brevissime abrupte stipitatis, aparaphysatis (?), octosporis; sporidiis fusoideo-elongatis, subinde curvulis, utrinque obtuse attenuatis, 36-48 \approx 3, dense 18-20-guttatis, hyalinis.

Hab. in cortice Aceris campestris pr. Vinkovce Slavoniæ. — Affinis videtur *Leptosphæria Mulleri*.

- * 56. **Metasphæria Lieuryana** Malbr. et Le Bret. Exc. Crypt. (Champ.) 7034
pag. 9. — Peritheciis globoso-convexis, epidermide pustulatum inflata, nigrificata tectis, sæpe in macula decolorata insidentibus, glabris, ostiolo minuto papillato; ascis cylindraceis, sessilibus (?), 135 \approx 8-9; sporidiis monostichis, oblongo-ovalibus, apicibus rotundatis, 3-septatis, hyalinis, 17 \approx 6; paraphysibus nullis.

Hab. in pagina inferiore foliorum emortuorum Ilicis Aquifolii, Grand-Couronne prope Rouen Galliæ. — *M. lejustegæ* affinis, a qua epidermide dense colorata sporidiis acutioribus nec non matrice differt. — Socia *Venturia ilicifolia*.

- *57. **Metasphæria Molleriana** (Niessl) Berl. et Vogl. *Leptosphæria* 7035
Molleriana Niessl Contr. Fl. Myc. Lus. p. 14. — Peritheciis hypophyllis, aggregatis, in foliorum parenchymate nidulantibus, demum vertice erumpentibus, minutis, 0,25 mm. diam., globosis, atris, glabris, subcarbonaceis, ostiolo papilliformi; ascis cylindræis, subsessilibus, 8-sporis, 40-50 \approx 6-8; sporidiis distichis, cylindræo-cuneatis seu inferne parum attenuatis, rectis, medio septatis sed vix vel haud constrictis, demum 4-cellularibus, hyalinis, 9-11 \approx 2-2½; paraphysibus, paucis, exiguis; sporidiis initio ut in *Sphaerella* rite evolutis, perfecte 4-cellularibus.

Hab. in foliis emortuis Eucalypti Globuli, Pinhal de Valle de Canas pr. Coimbra Lusitanæ.

- *58. **Metasphæria caraguata** Speg. Fungi Guar. Pug. I, n. 227. — Peritheciis primo tectis, dein erumpenti-superficialibus, basi tantum vix insculptis, conoideo v. globoso-lenticularibus, 150-180 μ . d., atris, glaberrimis, levissimis, coriaceo-membranaceis, contextu fere indistincto, densissime minuteque parenchymatico, ostiolo vix papillulato; ascis clavatis, antice acutiuscule rotundatis, postice breviuscule attenuato-pedicellatis, 65-75 \approx 10-12; paraphysibus filiformibus densissime obvallatis, 8-sporis; sporidiis fusoides v. fusoidesubclavulatis, sursum obtusiuscule rotundatis, deorsum attenuato-acutiusculis, 25-28 \approx 5-6, 7-9-septatis, ad septa non constrictis, primo hyalinis, dein perdilute chlorinis.

Hab. ad folia languida Bromeliæ serræ (vulgo *Caraguatã*), in silvaticis prope Guarapí Bras.

- *61. **Metasphæria Arabidis** Johans. Svamp. Island p. 169, tab. XXIX, 7037
 fig. 11. — Peritheciis sparsis vel gregariis, depresso-sphæroideis, atris vel cinereo-fuscis, poro rotundo pertusis, 180-200 μ . diam.; ascis cylindræo-clavatis, breviter pedicellatis, paraphysatis, octosporis, 54-60 \approx 8-10; sporidiis distichis, cylindræo-fusoides, hyalinis, triseptatis, non constrictis, loculo secundo vix vel levissime inflato, rectis vel curvulis, 22-28 \approx 4-5.

Hab. in foliis emortuis Arabidis alpinae Eskifjördur, Islandiæ orientalis.

- *70. **Metasphæria Marchaliana** Sacc. in Rev. Myc. 1884. — Peritheciis lineolatim et parallele dense 1-3-seriatis lineaque atra, epidermide sæpe tectis, hinc fere scirrhoideis, sed vere discretis, globosis, minutis, 120-130 μ . diam., ostiolo papillato breviter emergente; contextu minute parenchymatico, fuligineo, tenui; ascis tereti-clavulatis, breviter stipitatis, paraphysatis, octosporis, 80-90 \approx

12; sporidiis distichis, fusoideis, rectis v. curvulis, 3-septatis, non constrictis, 12-15 \approx 2-2,5, hyalinis.

Hab. in culmis Phragmitis communis, sociâ *Septoriâ arundinaceâ* et *Ascochyti donacini*. Dispositione et minutie peritheciolorum et parvitate sporidiorum mox distincta species.

74. **Metasphæria graminum** Sacc. Syll. II, pag. 174, var. **culmicola**: 3474
ostiole setuloso; sporidiis initio mucro obvolutis, 16-18 \approx 4-5. — In culmis graminum.

86. **Metasphæria Cumana** (Sacc. et Speg.) Sacc. Syll. II, p. 177. *Var. luzulina* Karst. in Hedw. 1884, n. 1, p. 5. — Rev. atque Synop. Ascom. fenn. p. 44. — Peritheciis hypophyllis, sparsis vel subgregariis, innatis, vix erumpentibus, depresso spheroroideis, demum pertusis, atris, vix 2 mm. diam.; ascis cylindraceo-oblongatis, subsessilibus apice attenuatis, basi sæpe curvulis, 60-75 \approx 9-12; sporidiis octonis, tristichis, fusoideo-bacillaribus, curvulis, spurie 3-septatis aut 3-(vel pluri-)guttulatis, chlorino-hyalinis, ad septa non constrictis, 20-25 \approx 3-4; paraphysibus parum notabilibus. — In foliis emortuis Luzulæ pilosæ, Mustiala Fennicæ.

*94. **Metasphæria nervisequa** (Wint.) Berl. et Vogl. *Leptosphaeria nervisequa* Winter Contr. Fl. Myc. Lus. V, p. 15. — Peritheciis secus nervos primarios sparsis, immersis, demum parum prominentibus, globosis, ostiole punctiformi, prominulo instructis, membranaecis, atris, 250-260 μ . d.; ascis e basi ventricosa sursum attenuatis, sessilibus, 8-sporis, 60-70 \approx 23 (in parte inferiori), paraphysibus numerosis, filiformibus obvallatis; sporidiis inordinate distichis, oblongis, inæqualiter didymis, 4-septatis, medio profunde, ad alia septa parum, constrictis, parte superiore 12-14 \approx 6-7, biseptata, inferiore 8-9 \approx 4,5-2,5 uniseptata, hyalinis.

Hab. ad Smilacis Pseudochinæ folia arida, rarissime, Coimbra Lusitaniæ (MOLLER).

*101. **Metasphæria acorella** (Cooke) Berl. et Vogl. *Leptosphaeria acorella* Cooke in Grev. XIII, p. 99. — Sparsa, epiphylla; peritheciis minutis, subglobosis, primum tectis, dein erumpentibus, parte superiore prominulis, vix papillatis, nigris; ascis clavatis, octosporis; sporidiis fusiformibus, distichis, 5-septatis, septo medio constrictis primum nucleatis, hyalinis, 30-35 \approx 6.

Hab. in foliis Acori Calami, sociâ *Phoma Acori*, Totteridge et Kew Britannicæ.

*114. ? **Metasphæria leptogiophila** (Minks) Berl. et Vogl. *Leptorhaphis leptogiophila* Minks in litt. Winter in Flora 1877, pag. 211,

? *Leptosphaeria leptogiophila* Winter Die Pilze II, pag. 443. — Peritheciis gregariis, thallo omnino immersis, in pagina inferiore vix prominulis, sphæroideis, ostiolo late pertuso, membranaceo-coriaceis, pallidis, sursum obscurioribus; ascis cylindræis vel subclavatis; apice parum, basi valde attenuatis, 60-70 \approx 9-10; sporidiis late fusiformibus, utrinque acutis, inæquilateralibus, hyalinis, crasse 4-guttulatis (an demum 4-ocularibus?), 16-17 \approx 3-4; paraphysibus numerosis, filiformibus.

Hab. in thallo *Physmatis franconici* in Germania.

CERIOSPORA Niessl — Sacc. Syll. II, p. 184.

- *1. **Ceriospora Ulicis** Pat. in Rev. Myc. 1885, p. 153. — Peritheciis 7042 numerosis, gregariis, superficialibus vel epidermide tectis, atris, globulosis vel conoideis, apice ostiolatis; ascis cylindræis, basi attenuatis, sursum rotundatis, 136 \approx 7-14, paraphysibus filiformibus, ramosis cinctis, octosporis; sporidiis distichis, leniter curvulis, fusiformibus, uniseptatis, ad septa vix constrictis, crasse 4-guttulatis, utrinque ciliatis, 30-36 \approx 5-6 (excluso mucrone) hyalinis.

Hab. in ramis emortuis *Ulicis europæi*, Grand-Quévilly pr. Rouen Galliæ (LETENDRE).

SPHÆRULINA Sacc. Syll. II, p. 186.

- *1. **Sphærulina islandica** Rostrup Islands Svampe p. 8. — Peritheciis 7043 gregariis, epidermide tectis, globoso-compressiusculis; ascis fusoidæo-clavatis, 70 \approx 8-9; sporidiis cylindræo-fusoidæis, 3-septatis, hyalinis, 28-30 μ . long.

Hab. in caulibus *Arabidis alpinæ* in Islandia.

- *2. **Sphærulina sambucina** Peck in 38 Rep. St. Mus. p. 106. — Peritheciis, minutis, numerosis, gregariis, inæqualibus vel irregularibus, rotundis, oblongis vel flexuosis, epidermide tectis, erumpentibus, poro vel rima angusta pertusis, atris; ascis clavatis vel subcylindræis, 75-120 \approx 12, aparaphysatis; sporidiis stipatis vel biseriatis, oblongo-clavatis, medio constrictis, 5-7-septatis, 22-30 \approx 7,5-8,5, hyalinis.

Hab. in ramis *Sambuci canadensis*, West Albany in America boreali.

3. **Sphærulina Todeæ** (Cooke) Berl. et Vogl. *Spharella Todeæ* Cooke 7045 in Grevillea XII, pag. 85. — Sparsa, amphigona; peritheciis minimis, subglobosis, atris, semiemergentibus vix papillatis; ascis clavatis; sporidiis sublanceolatis, triseptatis, hyalinis, 12 \approx 2,5.

Hab. in foliis *Todeæ hymenophylloideæ*, Karori New Zealand.

- * 4. **Sphærulina Potentillæ** Rostrup Islands Svampe p. 11. — Peritheciis punctiformibus, gregariis; ascis sessilibus, saccato-clavatis, 38-40 \approx 24-25, aparaphysatis, 6-8-sporis; sporidiis tristichis obovato-cylindricis, obtusis, distincte 4-septatis, hyalinis, 15-20 \approx 6. 7046

Hab. in caulibus *Potentillæ maculatæ* in Islandia.

- * 5. **Sphærulina subglacialis** Rehm in Hedwigia 1885, pag. 243. — Peritheciis dispersis, globosis, demum sessilibus, in epidermide dealbata caulium, primitus immersis, subpapillatis, poro minimo pertusis, fuscis, glabris, 0,2 mm. diam., parenchymatice fusce contextis; ascis ovalibus, crassis, 60 \approx 36, 8-sporis; sporidiis inordinatis, oblongo-ellipticis, rarius clavatis, obtusis, rectis, 4-cellularibus, medio non constrictis, hyalinis, 21-27 \approx 9-11; paraphysibus nullis. 7047

Hab. ad caules putridos *Trifolii pallescentis* ad glaciem æternam montis Ortler prope Sulden in Tirolia (Doct. REHM).

- * 6. **Sphærulina Boudieriana** Sacc. et Malbr. Fung. Gall. ser. V, n. 2167. — Peritheciis sparsis, epiphyllis rarius hypophyllis, globoso-depressis, 100-120 μ . d. initio epidermide velatis, dein subsuperficialibus facileque secedentibus, denique umbilicatis, poro perexiguo; contextu minute celluloso, fuligineo; ascis rosulato-fasciculatis, crasse clavatis, 50-60 \approx 14-16, brevissime stipitatis, octosporis, aparaphysatis; sporidiis 3-stichis, fusoides, curvulis, utrinque acutiusculis, 25-30 \approx 4, 3-septatis, non constrictis, minute 6-8-guttulatis, hyalinis. 7048

Hab. in foliis emortuis *Scabiosæ silvaticæ*, Brionne Gallicæ. — Subinde adsunt asci sterilescentes paraphyses imitantes. Perithecia, hyphulis fuligineis sæpe basi cincta, ibique parasitatur *Trinacrium torulosum*.

- * 7. **Sphærulina Caricis** Pat. in Rev. Myc. 1886, pag. 82. — Peritheciis sparsis, sub epidermide nidulantibus, ostiolo tantum prominente, minutis, nigris; ascis subsessilibus, 45 \approx 9-12, pseudo-paraphysatis; sporidiis fusiformibus, hyalinis, 3-septatis ad septa non constrictis, 15 \approx 2-3. 7049

Hab. in foliis siccis *Caricis trichostyllo*, Japon.

- * 9. **Sphærulina cetraricola** (Nyl.) Karst. Rev. Monogr. p. 171. Huc 3517
ducenda (teste Karsten l. c.) *Metasphaeria cetraricola* Sacc. Syll. II, pag. 184.

LASIOSPHÆRIA Ces. et De Not. — Sacc. Syll. II, p. 191.

35. **Lasiosphæria caudata**. (Fuck). Sacc. Syll. II, p. 200, Winter in Hedwigia 1885, pag. 99. — Sporidia bicellularia, parum curvata, cellula superiori suboblunga, cellula inferiori cylindrica, subrectangulariter curvata et acutata, fuscidula. 3572

*35. **Lasiosphæria breviseta** Karst. in Hedw. 1884, pag. 57. — Peritheciis gregariis vel aggregatis, ovoideis, superficialibus, rugulosis, ostiolo obtuso, vulgo obsoleto, pilis rigidis, inarticulatis, fusciscentibus, paucis, undique divergentibus, 150-200 \approx 15 (ad basim) obsessis, 400 μ . diam.; ascis pedicellatis, fusoideo-clavatis, 78-105 \approx 8-10; sporidiis octonis, tri-multiguttulatis, chlorino-hyalinis, 32-45 \approx 2,5-3,5. 7050

Hab. ad lignum vetustum Padi? in Mustiala Fennicæ. — *Lasiosphæriæ caudatæ* et *Las. strigosæ* affinis. An *Las. tephrotricha* Fr.?

*36. **Lasiosphæria Romeana** Sacc. et Berl. Misc. Myc. II, p. 20, n. 86, tab. X, fig. 19. — Peritheciis gregariis, superficialibus, globoso-depressiusculis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam., obtuse papillatis, atris, pilis cylindricis, subtortuosis, septatis, 200-220 \approx 6, fuliginis, subindivisis, laxiuscule vestitis; ascis tereti-clavatis, deorsum longe attenuatostipitatis, 200 \approx 20 p. sporif., octosporis, non vel obsolete paraphysatis; sporidiis cylindricis, utrinque obtusiusculis, 55 \approx 6, deorsum curvatis, continuis, hyalinis. 7051

Hab. in trunco putri prope Genève Helvetiæ (ROME). — Subaffinis *Las. caudatæ* differt vero sporidiis non caudatis, longioribus.

37. **Lasiosphæria strigosa** (Alb. et Schw.) Sacc. Syll. II, pag. 201, Winter in Hedwigia 1885, p. 99. — Asci elongati, cylindrico-fusifformes, deorsum longe attenuati, 8-spori, 120-130 \approx 14. 3574

*37. **Lasiosphæria stuppea** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, pag. 4. — Peritheciis superficialibus, ovatis, gregariis, subcarbonaceis, circiter 1 mm. altis, setis obscure brunneis vel stuppeo-coloratis, continuis, apice imperfecte denticulatis, 200 \approx 5-6, dense tectis; ostioliis obtusis, latis, 4-sulcatis; ascis 170-200 \approx 18-20, medio latioribus, attenuato-truncatis; paraphysibus granulosis, abundantibus, evanidis; sporidiis stipatis, cylindraceis, curvis, obtusis, granulosis, centro crasse uninucleatis, pallide brunneis, 34-38 \approx 9-11. 7052

Hab. in ramis emortuis Tsugæ Pattonianæ in Monte Pardo Amer. bor.

ENCHNOSPHERIA Fuck. — Sacc. Syll. II, p. 205.

1. **Enchnosphæria Pinetorum** Fuck. Sacc. Syll. I, n. 205, Winter in Hedwigia 1885, p. 99. Huc sec. cl. Winter (Confr. Hedwigia l. c.) spectant *Bertia Querceti* et *Lasiosphæria scabra*. — Sporidia triseptata, cellula secunda parum incrassata, 33-38 \approx 6-7.

* 7. **Enchnosphæria biformis** (Pers.) Sacc. in Rev. Myc. 1881, Schulz. Ill. fung. Slav. n. 556. — Sacc. Syll. II, p. 204, sub *Lasiosphæria*. — Perithecia gregaria, superficialia, globoso-conica, atra, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., carbonacea, ostiolo longiuscule papillato, setulis brevibus laxiuscule vestita; asci cylindraceuti, paraphysati, sessilibus, octospori; sporidia oblique 1-sticha, oblongo-ovoidea, 10 \approx 3-3,3, guttulata, dein 3-septata, vix constricta, hyalina.

Hab. in ligno Populi pr. Vinkovce Slavoniæ.

ACANTHOSTIGMA De Not. — Sacc. Syll. II, p. 207.

* 1. **Acanthostigma affine** Sacc. et Berl. Miscell. Myc. II, p. 28, n. 123, tab. VIII, f. 1. — Peritheciis superficialibus, subsparsis, globoso-conoideis, minutis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., subcarbonaceis, atris, setulis cuspidatis, 100-150 \approx 4, rectis, fuligineis, septulatis parce vestitis; ascis tereti-fusoideis, stipitatis, parce paraphysatis, 110-120 \approx 12-14, octosporis; sporidiis distichis, fusoideis, 32-34 \approx 6, 6-guttatis v. pluri-granulosis, 1-3-septatis, hyalinis.

Hab. in ramis putridis decorticatis, Cervarese Itat. bor. — *Ac perpusillo* affine, sed satis superque distinctum.

6. **Acanthostigma minutum** (Fuck.) Sacc. Syll. I, p. 209. — Asci 80-90 \approx 16-17; sporidia 19-21 \approx 5-6.

* 11. **Acanthostigma guaraniticum** Speg. Fungi Guar. Pug. I, n. 228. — Peritheciis minutis, globosis v. globoso-lenticularibus, 150-200 μ . long., sparsis, epiphyllis, rarius hypophyllis, ostiolo minuto pertusis, superne setulis continuis, rectis, 100-150 \approx 4-5, fuligineis, opacis, obtusiusculis, laxè vestitis, membranaceis, contextu parenchymatico, pellucido, fuligineo donatis, hypothallo tenuissime membranaceo-subcrustaceo, e cellulis fibroso-radiantibus, ellipticis, crasse 2-guttulatis, sæpe angulosis, 4-10 \approx 5-5, olivaceis, pellucidis, composito insidentibus; ascis ovatis vel elliptico-saccatis, sursum attenuatis, apice rotundato-truncatis, crasse tunicatis, deorsum abrupte coarctatis, brevissime noduloseque stipitatis, 50 \approx 18-19, paraphysatis, 8-sporis; sporidiis polystichis, fusoideo-clavulatis, 35 \approx 6-6,5, sæpius curvulis, 5-6-septatis, ad septa leniter constrictis,

loculis 3 superis crassioribus, apice obtuse rotundatis, basi attenuato-acutatis, hyalinis.

Hab. ad folia viva Eugeniæ speciei cujusdam in silva subvirginea Caa-guazû Bras.

HERPOTRICHIA Fuck. — Sacc. Syll. II, p. 211.

2. **Herpotrichia rhenana** Fuck. — Sacc. Syll. I, n. 3617 et Winter in Hedwigia 1885, p. 99. — Asci obclavati, deorsum stipiteformiter attenuatis, 110-150 \approx 17-19; sporidia oblongo-fusoidea, medio contracta, utrinque rotundata, primo bicellularia, hyalina, demum tri-septata, pallide fusca, sæpe curvula, 21-28 \approx 8.

*3. **Herpotrichia callimorpha** (Auersw.) Winter in Hedwigia 1885, p. 99, *Enchnoa callim.* Auersw. in Fungi europ. 1238. *Chaetosphaeria callimorpha* Sacc. Syll. II, p. 95, vix huc reducenda. — Peritheciis plerumque confertis, sarmenta longe lateque obducentibus, globosis, atris, vertice concavo, glabro, ceterum dense fusceque villosa-tomentosis, subiculo late effuso, ex hyphis aliis erectis, aliis repentibus, fuscis formato insidentibus; ascis cylindrico-subclavatis deorsum attenuatis, 8-sporis, 100-110 \approx 12; sporidiis fusiformibus, plerumque curvatis, 3-septatis, cellula secunda parum incrassata, utrinque acutiusculis, appendicula hyalina, brevi, conoidea præditis, 35-38 \approx 6, hyalinis.

Hab. ad sarmenta Rubi in Germania.

*4. **Herpotrichia Molleriana** Wint. Cont. Flor. myc. Lus. Ser. VI, p. 9. — Peritheciis sparsis, hypophyllis, globosis, ostiolo papilliformi, pertuso, demum collapsis umbilicatisque, membranaceis, fusco-atris, pilis brevibus, fuscis, flexuosis ubique obsitis, 250-260 μ . diam.; ascis cylindræis, deorsum longe attenuatis, substipitatis, 8-sporis, 105 \approx 9-10; sporidiis distichis, elongato-fusiformibus, parum curvatis, 7-septatis, ad septum medium profunde contractis, guttulis, hyalinis, 30-33 \approx 5; paraphysibus copiosis, filiformibus.

Hab. in foliis vivis Quercus Suberis, Rica-fe' prope Bragança in Lusitania (MOLLER).

*9. **Herpotrichia calospora** Winter in Rev. Myc. 1885, p. 207. — Peritheciis laxè gregariis, superficialibus, subiculo tenuissimo, crustaceo, atro-cinereo, effuso, maculas magnas, sæpe caulem ambientes, et longe lateque obducentes efficiente, ex hyphis ramosissimis, fuscis valde intertextis, repentibus, torulosis, septatis, 4.5 μ . crassis formato, setis sparsis, rigidis, fuscis (an conidiiferis?), obsito insiden-

tibus, hemisphæricis, basi applanata, vertice obtusis, minutissime papillatis, atris, opacis, $\frac{6}{10}$ mm. latis; ascis amplis, late clavatis, breviter stipitatis, apice late rotundatis, 8-sporis, 166-192 \approx 35-44; sporidiis subdistichis vel inordinatis, late fusoideis, utrinque acutiusculis, parum inæquilateralibus, medio subconstrictis, 3-septatis, olivaceis, 52-65 \approx 14-15; paraphysibus copiosis, tenuissime filiformibus conglutinatis.

Hab. ad caules culmosve siccos, Carapegua Paraguay Americæ australis.

CERATOSPHERIA Niessl — Sacc. Syll. II, p. 227.

3. **Ceratosphæria pusilla** (Fuck.) Sacc. Syll. II, p. 227, Winter in Hedwigia 1886, p. 101. — Ascii cylindracei, deorsum parum attenuati, sessiles, 115-125 \approx 8-9; sporidia 5-septata, 21-28 \approx 5-5,5. 3683

*5. **Ceratosphæria rhenana** (Auersw.) Berl. et Vogl. *Gnomonia rhenana* Auersw. *Ceratostomella rhenana* Sacc. Syll. I, p. 409. Sec. cl. Winter (Confr. Hedwigia 1886, p. 101). Sporidia sunt 3-septata, 18-21 \approx 5-5,5; ascii cylindracei, in stipitem sublongum, tenuem attenuati, 130 \approx 9 p. sp. 93-105. 1552

8. **Ceratosphæria æruginosa** Rehm — Sacc. Syll. II, pag. 228, *Ceratosphæria immersa* Winter delenda est (Confr. Hedwigia 1885, pag. 101), nam teste auctore eadem est ac *C. æruginosa*. 3688

*9. **Ceratosphæria mycophila** Winter in Hedwigia 1886, p. 101. — Peritheciis sparsis seu gregariis, superficialibus vel plus minusve immersis, demum liberis, globosis, nigris, glabris, nitidis, firmis, collo conico, acuto, perithecio duplo brevior, demum deciduo præditis, vertice collo destituto, late pertuso, 300-370 μ . diam.; ascis elongato-cylindraceis, vertice subincrassato, late rotundato, deorsum stipitiformiter attenuatis, 8-sporis, 180-210 \approx 9; sporidiis subdistichis, elongato-fusififormibus, curvulis, 9-septatis, hyalinis, 38-44 \approx 3,5-4; paraphysibus numerosis, tenuibus, filiformibus. 7057

Hab. ad Polyporum putridum prope Arnstadt Thuringiæ.

THYRIDARIA Sacc. Syll. II, p. 140.

1. **Thyridaria texensis** (E. et Ev.) Berl. et Vogl. *Diatrype texensis* E. et Ev. in Journ. of Myc. 1886, pag. 39. — Stromate subcarbonaceo, atro, suborbiculari, 2-4 mm. crasso, primum plano vel sursum subconcavo, superficie corticis interioris insidente atque epidermidem perforante; peritheciis coriaceis, contextu crasse 7058

parenchymatico, globosis vel mutua pressione subangulosis, 6-20 in quoque stromate, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., orificio acutiusculo sed indistincto; ascis clavato-cylindræis, circiter $75 \approx 12$, copiose paraphysatis; sporidiis subdistichis, primo luteo-brunneis uniseptatisque, dein obscure brunneis, 3-septatis, ovatis vel oblongo-ellipsoideis, $15-20 \approx 6-7$, ad septa vix constrictis, loculis exitimis subhyalinis.

Hab. in cortice arboris (Tiliæ?), Houston, Texas Amer. bor.

ZIGNOËLLA Sacc. Syll. II, p. 214.

- * 1. **Zignoella Britzelmayri** Sacc. in litt. *Lasiosphaeria Britzelmayri* 3510
Sacc. Syll. II, p. 192, *Trematosphaeria paradoxa* Winter in Hedwigia 1886, p. 102. — Sporidia elongato-fusiformia, deorsum magis attenuata, 5-10 transverse septata, hyalina, $28-35 \approx 3,5-4$.
- * 2. **Zignoella Hanburiana** Penz. et Sacc. F. Mort. p. 6, t. IV, f. 1. — Peritheciis sparsis, subsuperficialibus, majusculis, aterrimis, carbonaceis, $\frac{1}{3}$ mm. diam., hemisphaericis, ostiolo minutissimo, haud prominente; ascis clavato-cylindræis, breve stipitatis, 140-160 μ . long., 30-35 μ . crassis, octosporis; paraphysibus numerosis filiformibus ascorum longitudine; sporidiis distichis, elliptico-fusoideis, utrinque attenuatis, triseptatis, ad septa leviter constrictis, 4-guttulatis, hyalinis, 35-38 μ . long., 10-12 μ . crassis.

Hab. in ligno vetusto Oleæ sativæ, Mortola Ital. bor. (O. PENZIG).

- * 3. **Zignoella ramenticola** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7059
Ill. Fung. Slav. n. 157. — Peritheciis dense gregariis, ligno, superficie denigrato, basi infossis, globoso-depressulis, $\frac{1}{5}$ mm. diam., atris, levibus, ostiolo obtuso, conico, minute pertuso; ascis teretibus, subsessilibus, paraphysatis, octosporis; sporidiis distichis fusioideo-oblongis, $20 \approx 6$, triseptatis, ad septa constrictis, 4-guttulatis, hyalinis.

Hab. in ligno putri dejecto Carpini prope Vinkovce Slavoniæ.

- * 4. **Zignoella minutissima** (Karst.) Sacc. Syll. II, Add. LXII. Var. 6152
clavispora Karst. in Medd. af Societ. pro Faun. et Fl. Fenn. 11, 1884, pag. 140. — Rev. atque Synop. Ascom. Feun. p. 42. — Peritheciis laxè gregariis, erumpenti-superficialibus, lentiformibus, atris, opacis, demum ore latiusculo pertusis, 2 mm. circ. lat.; ascis cylindræo-clavatis, subsessilibus, flexuosis vel curvatis, 40-66 \approx 9-12; sporidiis octonis, distichis, claviformibus vel ovoideo-elongatis, vulgo rectis, spurie tenuiter 3-septatis, chlorino-hyalinis vel

hyalinis, 15-18 \approx 5-6; paraphysibus filiformibus, parce ramosis 2-2,5 μ . crass.

Hab. ad lignum putrescens in par. Padasjoki Fennicæ (EDW. WAINIO). — *Var. juniperina* Karst. l. c.: peritheciis innatis, demum vertice nudatis; ascis 80-100 \approx 12; sporidiis 3-septatis, hyalinis, 14-22 \approx 7-8. In ligno Juniperi communis prope Mustiala Fennicæ.

- * 5. **Zignoella sociabilis** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7060
Ill. fung. Slav. n. 935. — Peritheciis gregariis, superficialibus, atris, carbonaceis, globulosis, superficie inæqualibus v. colliculosis, intus pallidis. circ. $\frac{1}{2}$ mm. diam., ostiolo obtusiusculo; ascis clavatis, deorsum attenuatis, 94 \approx 14-18, paraphysatis (?), octosporis; sporidiis subdistichis, tereti-fusoideis, curvulis, utrinque obtusiusculis, 32-40 \approx 5-7, 4-6-guttatis, non constrictis, hyalinis.

Hab. in trunco decorticato Carpini Betuli, sociâ *Trichosphæriâ pilosâ* in Slavonia.

- * 15. **Zignoella Haynaldii** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7061
Ill. fung. Slav. n. 937. — Peritheciis late et dense gregariis, in ligno denigrato superficialibus, globulosis, verruculosis, carbonaceis, atris, intus pallidis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo minuto obtusiusculo; ascis clavulatis, stipitatis, paraphysatis, octosporis; sporidiis subtristichis, cylindræo-fusoideis, utrinque rotundatis, 3-septato-torulosis, 20-22 \approx 4-5, hyalinis.

Hab. in ligno Carpini Betuli prope Viakovce Slavonicæ. — *Zignoellæ rhytidodi* affinis.

- * 16. **Zignoella Jurana** Sacc. et Berl. Misc. Myc. II, pag. 19, n. 83, 7062
tab. X, f. 23. — Peritheciis superficialibus, subsparsis, globoso-depressis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., denique collabascendo umbilicatis, atris, brevi-papillatis; ascis tereti-clavatis, 90-100 \approx 14, breve stipitatis, paraphysatis, octosporis; sporidiis distichis, fusoideis, utrinque acutiusculis, 3-septatis, non v. vix constrictis, 20-22 \approx 6, hyalinis.

Hab. in ligno indurato Lonicæræ in m. Jura Neuchâtel in Helvetia. — Affinis *Z. fallaci*, a qua peritheciis eximie collabentibus differt.

- * 23. **Zignoella subcorticalis** Cooke in Grevill. XIV, p. 12. — Sparsa; 7063
peritheciis semimmersis, pertusis, atris, opacis; ascis cylindricis, octosporis; sporidiis ellipticis, hyalinis, continuis, 12 \approx 4.

Hab. in parte interna corticis emortui arborum in Australia.

24. **Zignoella papillata** (Fuck.) Sacc. Syll. II, p. 219, Winter in Hedwigia 1886, p. 100. — Perithecia gregaria vel sparsa, superficialia- 3649

lia e globoso breve conoidea, ostiolo distincto, papilliformi, atra, carbonacea, 260 μ . diam.; asci anguste cylindracci, deorsum longe attenuati, 108 \approx 7-9; sporidia irregulariter mono-vel subdistica, oblongo-fusoidea, primitus continua dein distincte uni-vel indistincte triseptata, 3-4 μ . crassa.

*32. **Zignoella grœnendalensis** Sacc. Bomm. et Rouss. in Misc. Myc. 7061

I, pag. 17. — Peritheciis gregariis, subglobosis, exiguis, $\frac{1}{6}$ mm., breve papillatis, carbonaceis, fragilibus, atris, basi hyphis fuliginis filiformibus, tortuosis, cinctis, ceterum subglabris; ascis cylindraccis, modice stipitatis, paraphysatis, octosporis, 110-120 \approx 7, apice lumine subbifoveolato; sporidiis, monostichis, elliptico-oblongis, subinæquilateralibus, 16-18 \approx 6-7, 1-2-guttatis granulosisque, hyalinis.

Hab. in ligno fagineo putri, Groenendael prope Bruxelles in Belgio. — Fructificatione ad *Ceratostomellam dubiam* admodum accedit, sed rostellum peritheci deest.

*34. **Zignoella sequanica** Sacc. et Malbr. Fungi Gall. ser. V, n. 2169. 7065

— Peritheciis laxè gregariis, globosis, basi ligno leviter insculptis, superficialibus, nigris, intus evacuatis, rosellis $\frac{1}{2}$ mm. diam., carbonaceo-molliusculis, hinc denique umbilicatis, ostiolo brevissimo obtuso; ascis teretiusculis, breve stipitatis, apice rotundatis, 130-140 \approx 16-18, paraphysibus ramulosis obvallatis, octosporis; sporidiis oblique monostichis, fusoideis, utrinque acutiusculis, 32-36 \approx 7-9, 3-septatis leniterque constrictis, hyalinis, faretis, initio strato mucoso obductis.

Hab. in ramis decorticatis emortuis dejectis Salicum ad ripas Sequanæ prope Rouen Galliæ. — Accedere videtur ad *Z. rhodobapham*, ex eo magis quod matrix leniter rubescat; sed differt quia sporidiis conspiciè majoribus, ad septa constrictis, peritheciis dein umbilicatis etc.

*38. **Zignoella Oudemansii** Karst. Rev. atque Synop. Asc. fenn. 7066

pag. 42. — Peritheciis dispersis, erumpentibus, applanatis, depressis, atris, poro pertusis, 2-4 mm. diam.; ascis cylindracco-clavatis, 75-95 \approx 9-12; sporidiis subdistichis, fusoideo-oblongatis, 1-3-septatis, hyalinis, 18-22 \approx 4-6; paraphysibus parvis.

Hab. in ligno pineo prope lacum Susijärvi in Lapponia rossica.

*39. **Zignoella paraguayensis** Speg. Fung. Guar. Pug. I, n. 229. — 7067

Peritheciis primo epidermide tectis, dein nudis, basi tantum matrici insculptis, 170-180, lenticulari-conoideis, microthyriaceis, ostio-

lo latiusculo perforatis, atris, glabris, levibus, coriacellis, contextu subindistincte parenchymatico, densiusculo, fusco vel cœrulescenti-fusco; ascis cylindræco-obclavatis, antice rotundato-truncatis, crasse tunicatis, postice subcoarctatis, brevissime noduloseque stipitatis, 50-65 \approx 12-15, paraphysibus parvis filiformibus obvallatis, 8-sporis; sporidiis distichis, obovato-elongatis, 13-15 \approx 5-7, 3-septatis, ad septa plus minusve constrictis, loculis 2-superis crassioribus, rectis vel sæpius inæquilateralibus, hyalinis.

Hab. ad aculeos ramorum *Xanthoxyli* speciei cujusdam in silvaticis Paraguay Bras.

Sect. 8. Dictyosporæ Sacc.

PLEOSPORA Rab. — Sacc. Syll. II, p. 241.

- *1. **Pleospora baccata** Ellis in Torr. Bot. Club. 1883, pag. 53. — 7068
Peritheciis subcuticularibus, hemisphæricis, collapsis, rugosis, 330-500 μ . diam., basi hyphis copiosis, brunneis, repentibus cinctis; ostioliis papilliformibus; ascis oblongo-cylindræcis, 114 \approx 23; sporidiis distichis, oblongo-ellipsoideis, 3-septatis, septo longitudinali imperfecto divisis.

Hab. in caulibus emortuis *Cirsii* speciei cujusdam, Alta Amer. bor. (HARKNESS).

- *2. **Pleospora aurea** Ell. in Torr. Bot. Club. 1883, pag. 53. — 7069
Peritheciis gregariis, epidermide tectis, 250-300 μ . diam., mox collapsis; contextu crasse parenchymatico, basi mycelio rudi, fimbriato, ex hyphis brunneis, repentibus, septatis, parce ramosis, composito cinctis; ascis amplis, obtusis, sessilibus, circiter 114 \approx 30; sporidiis distichis, ellipsoideis, applanatis, 4-septatis, loculis extimis septo longitudinali divisis, aureis, 27-30 \approx 11-15.

Hab. in caulibus herbæcis, Utah Amer. bor. (HARKNESS).

- *3. **Pleospora Cheiranthi** Cocc. et Mor. F. Bol. II, n. 196, f. IV. — 7070
Peritheciis globosis, depressiusculis, sparsis, tectis dein erumpentibus, membranaceis, carbonaceis, circ. $\frac{1}{3}$ mm. diam.; ascis 8-sporis, cylindræco-oblongatis, interdum incurvulis, breviter stipitatis, 145-160 \approx 24-30; sporidiis dense muriformibus, luteo-brunneis, sæpius transverse 7-septatis, omni loculo longitudinaliter 3-4-septato, 33-36 \approx 14-16.

Hab. in siliquis *Cheiranthi* *Cheiri* pr. Barbrano Ital. bor.

- *4. **Pleospora alpina** Rostrup in Islands Svampe pag. 7. — Perithe- 7071

ciis subgregariis, sphæroideo-conoideis, siccis corrugatis, atris, nitidis; ascis 70-80 μ . long.; sporidiis flavis, oblongis, utrinque acutiusculis, 4-septatis, loculis intermediis uno v. binis longitrorsum 1-septatis, 20-26 \approx 6-7, sæpe inæquilateralibus; paraphysibus filiformibus.

Hab. in caulibus Viscariæ alpinæ, Kalmanstunga Islandiæ.

- *5. **Pleospora compressa** Harkn. New Calif. Fungi pag. 25. — Pe- 7072
 ritheciis sparsis cuticula nigrescente tectis, concavis, hyphis brunneis, radiantibus cinctis; ascis 8-sporis, clavatis, breviter pedicellatis, 80-90 \approx 15-18, paraphysibus filiformibus; sporidiis brunneis, inæqualiter ellipsoideis, transverse 3-septatis, loculis intermediis septo longitudinali divisus atque magis quam extimis compressis, strato mucoso obvolutis, 20-27 \approx 10-19.

Hab. in caulibus emortuis Polygoni polymorphi, Blue Canon Californiæ.

- *7. **Pleospora Cassiæ** E. et Ev. in Journ. of Myc. 1886, pag. 41. — 7073
 Peritheciis $\frac{1}{4}$ mm. diam., epidermide pustulatim inflata, non nigrescente, ostiolo papilliformi perforata tectis, demum collapsis; ascis subcylindræis, basi abrupte contractis, 75-80 \approx 10-12; sporidiis distichis, luteo-brunneis, oblongo-ellipsoideis, triseptatis, ad medium constrictis, leniter curvulis, loculis uno vel duobus intermediis septo longitudinali divisus.

Hab. in caulibus emortuis Cassiæ, Houston, Texas Amer. bor., socia *Leptosphæria cassiæcola* (H. W. RAVENEL).

8. **Pleospora Alternariæ** Gib. et Griff. Sul Polimorfismo della *Pleo-* 3020
spora herbarum. Rendiconti R. Istituto Lombardo, 1873. — Huc ducenda est *Pleospora vulgaris* Niessl quæ posterior (1876).
18. **Pleospora herbarum** (Pers.) Rab. — Sacc. Syll. II, p. 247 *P. 3730
moricola Pass. in litt. Berl. Fungi Moric. fasc. II, tab. I, fig. 7-12. — Peritheciis subsuperficialibus, sparsis, globosis vel globoso-conoideis, ostiolo brevi, conico vel crasso, atris, opacis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. latis; ascis cylindræo-rotundatis, amplis paraphysibus fasciculatis, obvallatis, sessilibus, rectis vel arcuatis, octosporis, 130-145 \approx 21 (sec. clar. Passerini 150-200 \approx 25-28); sporidiis biserialibus, raro oblique uniserialibus, ellipticis, 7-septatis, loculo uno, duobus, raro tribus, septis longitudinalibus divisus, ad septum medium paullo constrictis, parte superiore vix crassiore, 35-42 \approx 13-17, flavis.

Hab. in foliis emortuis, putrescentibus Mori albæ, Parma Italiæ boreali.

- *20. **Pleospora arctica** Fuckel in Die Zweite Deutsch Nordpolarf. II. 7074

pag. 52, tab. I, fig. 2. — Peritheciis in caulibus aridis, sub epidermide cinerescente nidulantibus et epidermidem pustulatim inflantibus, sparsis, media magnitudine, globosis, atris, ostioli papilliformibus, perforatis, prominulis; ascis oblongis, plerumque curvatis, tunica crassa, breviter crasseque stipitatis, 8-sporis, $132 \approx 36$; sporidiis imbricato-distichis, oblongo-ovatis, medio constrictis, 6-7-septatis muriformibusque, primo hyalinis, demum aureis, postremo atro-olivaceis, subopacis, 28-14; paraphysibus (seu pseudoparaphysibus) linearibus, septatis, multiguttulatis, hyalinis.

Hab. in caulibus aridis *Epilobii latifolii*, Kaiser-Franz-Joseph-Fjord in Groenlandia. — Status conidiophorus **Cladosporium arcticum** exhibens: cæspitulis minutis, maculæformibus, olivaceis, velutinis; hyphis subsimplicibus, cylindraceis, septatis, sub lente fuscis, apice conidiophoris; conidiis oblongo-ovatis [vel subclavatis, 1-2-septatis, quandoque oblique pedicellatis, flavo-fuscis, $24 \approx 8$. In valvis aridis capsularum ejusdem *Epilobii* ibidem.

- *30. **Pleospora Sedi** (Roum et Br.) Berl. et Vogl. *Pyrenophora Sedi* 7075
Roum et Briard. in Rev. Myc. 1885, p. 174. — Peritheciis erumpentibus, globulosis, applanatis, nigris, glabris; ascis clavatis, ellipsoideis, $90 \approx 10-14$; sporidiis oblongis, $20 \approx 8$, sex-septatis, septo longitudinali divisio, melleis, distichis.

Hab. in caulibus exsiccatis *Sedi albi* prope Saintes Galliæ. — «Peritheciis glabris, saltem ex diagnosi, a *Pleosporis* recedere non videtur».

- *31. **Pleospora Briardiana** Sacc. in Rev. Myc. 1885, p. 158. — Peritheciis subsparis, epidermide secedente subsuperficialibus, globoso-depressis, papillatis, $\frac{1}{3}-\frac{1}{2}$ mm. diam., atris, duriusculis, mox collapsis-scutellatis; ascis clavatis, subsessilibus, $72-96 \approx 14-16$, octosporis; paraphysibus filiformibus, articulatis; sporidiis subdistichis, fusoideis, rectis v. curvulis, 7-septatis constrictisque, lutescentibus $28 \approx 7-8$, loculis mediis longitudinaliter 1-seriato-divisis. 7076

Hab. in caule sicco *Verbasci pr.* Troyes Galliæ (BRIARD). — Affinis *Pl. dura*, a qua peritheciis collapsis-scutellatis mox dignoscitur.

- *34. **Pleospora amplispora** Ell. et Ev. in Bull. Wash. Lab. Wat. Hist. 7077
1884, p. 4. — Peritheciis sparsis, superficialibus, nigris, subglobosis vel hemisphæricis. $\frac{1}{3}$ mm. diam., siccitate collapsis; ostioli brevibus, cylindraceis vel subconoideis; ascis oblongis, $250 \approx 75$ (paraphysibus?); sporidiis oblongis, utrinque obtusis, medio leni-

ter constrictis, 12-16-septatis, muriformibus, 60-75 \approx 20-24, flavo-brunneis, demum brunneis.

Hab. in caulibus emortuis Lupini in monte Paddo Americæ borealis.

- *35. **Pleospora Verbasci** Rabenh. in Marcucci Un. Itin. n. II, et 7078
Barbey Floræ Sardoæ Compendium p. 204. — Peritheciis.....; ascis permagnis, lineari-clavatis, hyalinis; sporidiis oblongis, 26-28 \approx 13-14, luteis, muriformibus.

Hab. in Verbasco, Gonno Fanadiga Sardinia.

- *36. **Pleospora gigaspora** Karst. Hedwigia 1884, p. 37. — Peritheciis 7079
in matrice haud mutata, sparsis vel subgregariis, epidermide primitus tectis, dein ea perfossa nudatis, conoideo-sphæroideis vel lenticulari-hemisphæricis, basi applanatis, vertice obtusis vel umbonatis, levibus, glabris, atris, 300-400 μ . diam.; sporidiis octonis, distichis, ovoideo-oblongatis vel ellipsoideis, supra medium constrictis, rectis, superne obtuse subattenuatis, parte dimidia inferiori angustiore apiceque rotundata, transverse 10-13-septatis, murali divisis, septulis longitudinalibus hinc inde interruptis, obsoletioribus, 3-4, saturate melleis, demum dilute fusco-melleis, 60-70 \approx 24-34.

Hab. in caulibus emortuis herbarum majorum in insula Maris glacialis, Kildin.

- *38. **Pleospora Clarkeana** Ell. et Ev. in Torr. Bot. Club. 1884, p. 75. 7080
— Peritheciis minutis 100 μ . diam., membranaceis, sparsis, parenchymate foliorum immersis, sursum leniter prominentibus, epidermide atrata tectis, demum collapsis; ostioliis ægre prominulis; ascis subcylindraceis, 125 \approx 25; sporidiis biseriatis, piriformibus vel oblongis, sæpius medio leniter constrictis, circiter 7-septatis, demum muriformibus, brunneis.

Hab. in foliis emortuis Plantaginis maritimæ, Island de Grand Menau Amer. bor. (MISS. C. H. CLARKE). — Affinis *P. Heleocharidis*, sed ascis et sporidiis minoribus.

- *39. **Pleospora Paronychiæ** Cooke in Grevillea XII, p. 38. — Epi- 7081
phylla, sparsa; peritheciis globosis, prominulis, papillatis, semiimmersis, minimis; ascis clavatis; sporidiis fusiformibus, centro constrictis, multiseptatis muriformibusque, atro-fuliginis, demum opacis 30 \approx 10.

Hab. in foliis emortuis Paronychiæ serpyllifoliæ, Luchon Gallia.

- *40. **Pleospora Cerastii** Oudem. Contr. à la Flore myc. de Nowaja Sem- 7082
lja p. 10. — Follicola, hypogena; peritheciis atris, carbonaceis, 70-

100 μ . diam.; ascis paucis (vulgo 7) in eodem perithecio, clavatis, 105 \approx 23, 8-sporis; paraphysibus non observatis; sporidiis distichis, obovato-oblongis, saturate fuscis, fere opacis, 7-septatis, murali-divisis, medio parum constrictis, parte dimidia antica paullum latiore.

Hab. in foliis Cerastii alpini, Nowaja Semlja.

* 41. **Pleospora guaranitica** Speg. Fung. Guar. Pug. I, n. 230. — 7083

Peritheciis globulosis, minutissimis, 70-90 μ . d., primo epidermide tectis, dein erumpenti-subsuperficialibus, sparsis, atris, glabris, levibus, tenui-membranaceis, contextu crasse parenchymatico-celluloso, olivaceo-fusco; ascis cylindraceo-clavatis, 60-80 \approx 25-30, 2-3 in quoque perithecio, tenui-tunicatis, antice obtusissime latissimeque rotundatis, postice brevissime noduloseque stipitatis, paraphysatis, 8-sporis; sporidiis ellipticis, 25-35 \approx 12-14, rectis vel vix inæquilateralibus, primo crasse muco vestitis dein nudis, septis 5 transversis, ad medium tantum constrictis, 1-2-(rarissime 0 v. 3-) longitudinalibus donatis, utrinque acutiusculis, loculis 3-superis crassioribus hyalinis.

Hab. ad folia emortua, exsiccata, adhuc pendula Leguminosæ herbaceæ enjusedam, Paraguay Bras.

* 42. **Pleospora abbreviata** Fuck. Reis nach Nordpolarm. III, et Oudemans Contr. Fl. Myc. Now Seml. p. 152, tab. II, fig. 8. — 7084

Peritheciis sparsis, demum subliberis, aterrimis, pro ratione minutis, globoso-conicis; ascis oblongo-ovatis, stipite laterali, brevi, 8-sporis, 88 \approx 34; sporidiis stipatis, oblongo-ovatis, inæqualiter didymis, medio constrictis, 5-septatis, cum septis longitudinalibus, primo aureis dein fuscis, 24 \approx 12.

Hab. in calycibus et leguminibus exsiccatis Phacæ frigidaæ, Nowaja Semlja.

52. **Pleospora Spegazziniana** Saccardo Syll. II, p. 257. *Var. betulina* 3764

Sacc. et Briard in Rev. Myc. 1885. — Peritheciis numerosissimis gregariis, primo cortice immersis, dein prominentibus epidermidemque eis adhærentem elevantibus, $\frac{1}{2}$ mm. diam., ostiolo papillato, rugoso, nigro; ascis oblongo-cylindraceis, apice rotundatis, breviter stipitatis, 8-sporis, 192-200 \approx 26-32; paraphysibus filiformibus, septatis, quandoque apice incrassatis; sporidiis uniseriatis, obliquis v. subdistichis, ovato-oblongis, melleis, 7-septatis, muralibus, ad septa constrictis, 36-42 \approx 16-18.

Hab. in ramulis siccis Betulæ albæ prope Troyes Galliaæ (BRIARD).

- *70. **Pleospora brachyasca** Pass. in litt. Berl. Fungi Moricolæ fasc. 7085
 II, tab. I, fig. 1-6. — Peritheciis amphigenis, minutis, 150-200 μ .
 diam., sparsis, globulosis, quandoque ostiolo obtuso, brevi donatis,
 atris; ascis amplis, saccatis vel sursum leniter attenuatis, basi ab-
 rupte breviterque stipitatis, foveolo perspicuo instructis, paraphy-
 sibus filiformibus, mox evanescentibus obvallatis, 110-120 \approx 24-27,
 octosporis; sporidiis ellipsoideis, parte superiore vix crassiore, 7-
 septatis, ad septa medium et pænultima leniter (Chlori-joduri-zyncei
 ope distincte) constrictis, loculis hinc inde septulis uno, duobus
 raro tribus, longitudinalibus divisus, 24-30 \approx 10-12, luteis.

Hab. ad folia dejecta, putrida Mori albæ, Parma Italiæ bo-
 realis.

- *73. **Pleospora Prostii** Pass. et Roum. in Rev. Myc. 1885, p. 169. 7086
 — Peritheciis sparsis, epidermide velatis, scutellatis, centro minute
 papillulatis, atris glabris, contextu carbonaceo, obscure celluloso;
 ascis clavatis vel gibboso-saccatis, membrana crassa præditis, 86-
 120 \approx 25, octosporis; sporidiis subdistichis vel oblique monostichis,
 oblongo-elliptis, obscure 7-9-septatis, muriformibus e flavo fusce-
 scentibus, nullibi constrictis, primitus strato mucoso, tenui obvo-
 lutis, 25-28 \approx 10-12; paraphysibus non visis.

Hab. in leguminibus fracidis Mimosæ Julibrissin in cali-
 dariis Horti Minnatensis.

- *75. **Pleospora quadriseptata** Cooke et Harkn. in Grevillea XIV, 7087
 pag. 10. — Peritheciis subgregariis, convexis, atris, nitidis, initio
 epidermide velatis, parvulis; ascis clavatis, octosporis; sporidiis sub-
 ellipticis, distichis, quadriseptatis, vix constrictis; cellulis uno al-
 terove longitudinaliter divisus, brunneis, 20-22 \approx 8.

Hab. in scapis Leucoji in California (HARKNESS).

- *76. **Pleospora pezizoides** Cesati. Cfr. Hedw. 1885, p. 262. — Peri- 7088
 theciis sparsis, quippe sed passim distincte seriatis, quia præcipue
 nervis foliorum prominentibus impositis, subcutaneis, erumpentibus,
 vertice ad maturitatem depresso, fere patellari, poro pertuso, ni-
 gris, opacis, diametro 1 mm., haud raro minoribus sterilescentibus;
 ascis facile diffluentibus, non observatis; sporidiis primitus navi-
 cularibus obsolete 3-septatis, 30 \approx 8, dein leviter soleiformibus,
 altero polo obtuso, altero breviter attenuato, viridulis, pluri-se-
 ptatis, incomplete muriformibus, 30 \approx 10-12.

Hab. in foliis vetustis Dracænæ australis in horto botanico
 Neapolitano Ital. mer. (CESATI).

- *77. **Pleospora calida** Penz. et Sacc. Funghi Mort. pag. 7, tab. IV, 7089

fig. 2. — Peritheciis laxè gregariis, epidermide tectis, dein prurumpentibus, globosis, haud papillatis, contextu parenchymatico, nigro; ascis clavatis, breviter stipitatis, crasse tunicatis, 110-140 μ . long., 20-23 μ . crassis; paraphysibus numerosis, deliquescentibus; sporidiis subdistichis, ellipticis, triseptatis, ad septa leniter constrictis, cellula una alterave longitudinaliter divisa, brunneolis, 22-26 μ . long., 11-14 μ . crassis, muco hyalino, evanido cinctis.

Hab. in squamis exsiccatæ Dracænæ indivisæ, Mortola Italia boreali (O. PENZIG).

- *86. **Pleospora Harknessii** Berl. et Vogl. *Leptosphaeria straminis* 7090
Cooke et Harkn. in Grevill. XIV, pag. 10 nec S. et Sp. — Culmicola; peritheciis sparsis vel subgregariis, maculis effusis, nigrefactis insidentibus, erumpentibus, atris, convexis pertusis; ascis cylindrico-clavatis, octosporis; sporidiis lanceolatis quinqueseptatis, leniter constrictis, fuscis, loculis binis centralibus longitudinaliter divisis, 32-35 \approx 6-8.

Hab. in culmis Tritici in California (HARKNESS).

- *88. **Pleospora planispora** Ell. in Torr. bot. Club. 1883, p. 53. — 7091
Peritheciis gregariis, siccitate collapsis, 250-330 μ . diam. epidermide vix decolorata tectis; ascis 114-120 \approx 25-28; sporidiis distichis, oblongo-ellipsoideis, applanatis, 5-septatis, loculis extimis septo longitudinali præditis, luteis, demum brunneis, 30-40 \approx 15-20 e latere 11 μ . crassis; paraphysibus copiosis.

Hab. in culmis putrescentibus verisimiliter Elymi. — Affinis *P. aureæ* a qua mycelio non abundante, sporidiis latioribus, costanter 5-septatis distinguenda.

- *97. **Pleospora ovoidea** Niessl Contr. Fl. Myc. Lus. p. 12. — 7092
Peritheciis sparsis in foliorum parenchymate innatis, ovoideis, majusculis, 0,5 mm. altis, numquam collapsis, rigidis, subcarbonaceis, atris, glabris, ostiolo brevi, conico, vix prominulo; ascis clavatis, stipite brevi, ut in *P. herbarum*, 8-sporis, 140-165 \approx 21-23; sporidiis oblique monostichis, ovoideo-oblongis, superne rotundatis, inferne attenuatis, medio constrictis, muriformibus, transverse 7-, in longitudine 1-3-septatis, obscure fuscis, 25-30 \approx 11-14; paraphysibus longis et crassis, guttulatis, simplicibus vel laxè ramosis.

Hab. ad folia emortua Agaves americanæ, Coimbra Lusitanie (MOLLER).

- *100. **Pleospora Arctagrostidis** Oudem. Cont. à la Flore myc. de 7093
Nowaja Semlja pag. 9, tab. I, fig. 1. — Peritheciis in foliis hypogenis, epidermide pro maxima parte tectis, 1 mm. diam., atris,

poro pertusis, glabris; ascis cylindræis, primitus saltem quam maxime stipatis, 116 \approx 30, 8-sporis; sporidiis distichis, obovato-oblongis, primitus mellei coloris, pellucidis, postea fusciscentibus, semipellucidis, medio parum constrictis, loculis horizontaliter, 6-septatis, plurimis septo verticali murali-divisis, 35 \approx 12.

Hab. in Arctagrostide latifolia, Nowaja Semlja.

102. **Pleospora Karstenii** Berl. et Vogl. Ita denominanda est *Pleospora arctica* Karsten Fungi Spetsb. n. 31 et Sacc. Syll. II, p. 271, nam alia *Pleospora arctica* Fuck. in Die zweite deutsch. Nordpolarf. II, pag. 32 exstat, quæ anterior.

* 112. **Pleospora islandica** Johans. Svamp. from Island. pag. 170, tab. XXIX, fig. 12. — Peritheciis sparsis, globosis vel globoso-depressis, breviter papillatis, sub epidermide nidulantibus, demum per epidermidem fissam erumpentibus, atris, glabris, plerumque basi filamentis paucis, fuliginis, obtusis cinctis, majusculis, 290-380 μ . diam.: ascis cylindræo-clavatis, in stipitem brevem attenuatis, octosporis, paraphysibus numerosis, articulatis v. guttulatis, simplicibus v. sparse ramosis, ascos superantibus, 125-150 \approx 23-27; sporidiis distichis, fusoido-oblongis, sæpe inæquilateralibus, rotundatis vel acutiusculis, rectis, transverse 7-10-septatis, medio constrictis, flavis, sepimento in longitudine uno (alterove) percurrente, loculis ultimis integris et sæpe pallidioribus, mucro hyalino obvolutis, 34-45 \approx 10-14.

Hab. in culmis et vaginis Poæ cæsivæ, Holar Islandiæ bor.

* 116. **Plenospora Engeliana** (Sauter) Winter Die Pilze II, p. 493. *Dacampia Engeliana* Saut. — Peritheciis gregariis, sæpe stipatis, initio immersis et ostiolo vix emergente, denique ad medium exsertis sphæroideo-conoideis, vertice poro amplo pertuso denique amplius hiantibus, nigris, majusculis; ascis cylindræis, elongatis, deorsum attenuatis octosporis, 160-165 \approx 10-11; sporidiis oblongis, medio profunde constrictis, utrinque acutiusculis, 3-5-septatis, addito sæpe septo longitudinali, flavo-brunneis, monostichis 21-25 \approx 8-9; paraphysibus copiosis.

Hab. in thallo Solorinæ saccatæ in Germania. — An eadem ac *Pl. Solorinæ*.

* 121. **Pleospora Vogliniana** Sacc. in Rev. Myc. 1885, tab. LV, fig. 3. — Peritheciis subsparsis, peridermio dealbato tectis, globoso-depressis $\frac{1}{4}$ mm. diam., dein leniter emergentibus, ostiolo inconspicuo; ascis tereti-clavatis, breve distichis, oblongo-fusoidis, 5-septato-muriformibus, ad septa leniter constrictis, 14-18 \approx 7, hyalinis.

Hab. in cortice Betulæ albæ circa Lutetiam Galliæ (FEUILLEAUBOIS).

- * 124. **Pleospora argyrospora** Harkn. New Calif. Fungi pag. 25. — 709
Peritheciis minutis, nigris, erumpentibus, sparsis; ascis 8-sporis, clavatis, sessilibus, crasse tunicatis, 60-65 \approx 20; paraphysibus filiformibus; sporidiis hyalinis, distichis, elliptico-lanceolatis, 3-septatis, septis 1-2 longitudinalibus, 18 \approx 8.

Hab. in ramis emortuis Deudromeci rigidi, Tamalpais in California.

PYRENOPHORA Fr. — Sacc. Syll. II, pag. 277.

- * 6. **Pyrenophora depressa** Peck in Torr. bot. Club. 1884, pag. 28. 709
— Peritheciis 250-350 μ . diam., depressis vel collapsis, primo epidermide tectis, demum erumpentibus vel liberis, nigris, sæpe basi filamentis mycelicis parcis, appressis, nigris, radiantibus cinctis, apice setis brevibus, parcis, erectis vel divergentibus, rigidis præditis; ascis cylindræis vel subclavatis, 110-150 μ . longis; sporidiis stipatis vel oblique monostichis, oblongis vel subobovatis, tri-septatis, uno vel duobus septulis longitudinalibus divisis, 28-35 \approx 15-20, coloratis.

Hab. in caulibus emortuis Arabidis, in California Amer. bor. (M. E. JONES).

- * 7. **Pyrenophora abscondita** Karst. in Hedw. 1884, n. 3, p. 1. — Rev. 709
atque Synop. Ascom. fenn. pag. 39, *Sphæria abscondita* Karst. Fung. Lapp. or., p. 216, 1865 (Notis. in Sällok. pro Faun. et Flor. Fenn. Förh 8 h. 1882). — Peritheciis gregariis, epidermide tectis, rotundatis, plus minus deplanatis, rugulosis, atris; hyphis tortuosis, fuliginæis, undique obsessis, punctiformibus; ascis clavatis, brevissime stipitatis, 60-100 \approx 10-18; sporidiis octonis, ellipsoideis vel ovoideo-oblongatis, utrinque attenuatis, ad medium constrictis, rectis v. leniter curvulis, mono-vel subdistichis, 3-5-septatis, septulo unico, hinc inde interrupto, accedente longitudinali, melleis, haud bene pellucidis, 17-21 \approx 7-9.

Hab. in caulibus vetustissimis Trollii europæi ad insulam maris glacialis Olenji.

- * 9. **Pyrenophora glacialis** (Niessl) Berl. et Vogl. *Pleospora glacialis* Niessl in Hedwigia 1885, pag. 236. — 710
Peritheciis sparsis, sessilibus, atris, globosis, 3 mm. diam. parenchymatice fusce contextis, vertice setis 12 fuscis, acutis, rigidis, circ. 60 \approx 4-6 et basi hyphis plus minusve crebris et longis, septatis, simplicibus,

fuscis, 4 μ . cr. obsessis; ascis crassis, clavatis, 8-sporis, 120 \approx 30; sporidiis 2-stichis, plus minusve ovatis, obtusis, flavo-fuscis, transverse 8-septatis, longitudinaliter 3-septatis, medio haud constrictis, 30-36 \approx 15; paraphysibus filiformibus; Jodii ope episporio cœruleo-tincto.

Hab. ad folia et pedunculos siccos *Cerastii latifolii* juxta glaciem æternam montis Ortler prope Sulden in Tirolia (Dr. REHM).

- * 13. **Pyrenophora paucitricha** (Fuck.) Berl. et Vogl. *Pleospora paucitricha* Fuck. in Die zweite deutsch. Nordpolarf. II, pag. 32, tab. I, fig. 3. — Peritheciis minutissimis, sparsis, subsuperficialibus, conicis, aterrimis, vertice pilis paucis, brevibus, rigidis, concoloribus obsitis; ascis ovato-oblongis, utrinque obtusis, subcurvatis, tunica crassa præditis, 8-sporis, 112-34; sporidiis imbricato-subdistichis, oblongo-ovatis, utrinque obtusis, rectis, 5-septatis muriformibusque, medio constrictis, fuscis, 34-13. 7101

Hab. in foliis exsiccatis delapsis *Salicis arcticæ*, Kaiser-Franz-Joseph-Fjord in Groenlandia.

- * 17. **Pyrenophora oligotricha** (Niessl) Berl. et Vogl. *Pleospora oligotricha* Niessl in litt. Rehm in Hedwigia 1885, p. 237. — Peritheciis gregariis, minutissimis, 0,2 mm. diam., sessilibus, globosis, atris, parenchymatice, fusce contextis, vertice setis 8 fuscis, acutis, simplicibus, septatis, rigidis, 60-120 \approx 5-6 et basi plerumque hyphis nonnullis, plus minusve longis, simplicibus, fuscis, circ. 4 μ . crass. obsessis; ascis elliptico-clavatis, brevissime stipitatis, crassis, 8-sporis, 75 (-90) \approx 18; sporidiis distichis, oblongis et subclavatis, obtusis, rectis, melleis, transverse 8-, longitudinaliter 1-septatis, medio haud constrictis, 21-25 \approx 9-10; paraphysibus filiformibus; Jodii ope episporio cœruleo-tincto. 7102

Hab. ad caules putridos *Trifolii pallescentis* juxta glacies æternas montis Ortler prope Sulden in Tirolia (Dr. REHM).

- * 21. **Pyrenophora chryso-spora** (Niessl) Sacc. Syll. II, p. 285. *Var. polaris* Karst. in Hedw. 1884, p. 38, *Pleospora herbarum* Karst. Fungi Spetsb. p. 98, pr. p. — Peritheciis erumpentibus, subsphaeroidis, sæpe ostiolo papillato, vertice setulis parcis, erectis, divergentibus, brevibus instructis, circ. 0,2 mm. latis; ascis oblongatis v. oblongato-clavatis, brevissime pedicellatis, 90-180 \approx 30-44; sporidiis octonis, di-vel subtristichis, ellipsoideis vel ovoideo-oblongatis, ad medium vix vel leniter constrictis, utrinque obtusis, transverse 7-raro 5-septatis, septulis longitudinalibus hinc inde interruptis 1-3 accedentibus, rectis, inæquilateralibus vel leniter curvulis, aureis 3861

vel melleis, demum in fuscum plus minus vergentibus, 30-53 \approx 18-27; paraphysibus parum notabilibus.

Hab. ad folia plantarum variarum Di- et Monocotyledonearum in insulis Spetsbergen et Beeren Eiland.

*23. **Pyrenophora fenestrata** Peck in Torr. Bot. Club. 1884, p. 28. 7103

— Peritheciis 280-370 μ . diam., depressis, primum epidermide tectis, demum erumpentibus et liberis, setis parvis, rigidis, divergentibus præditis; ascis evanidis; sporidiis oblongis, fenestratis, dense coloratis, in massa nigris, 40-50 \approx 18-22, transverse 7-septatis, medio sæpe constrictis.

Hab. in caulibus herbaceis emortuis, Utah Amer. bor.

*27. **Pyrenophora aparaphysata** (Therr.) Berl. et Vogl. *Pleospora* 7104

aparaphysata Therr. in Rev. Myc. 1882, pag. 220. — Peritheciis majusculis, $\frac{1}{4}$ - $\frac{3}{4}$ mm. diam., compressis, hysteriiformibus vel subsphaeroideis, primum epidermide tectis, demum erumpentibus et tum subsuperficialibus, nigris, dein nitidis, basi tomento byssino, radiante, rufescente. fugaci cinctis, ostiolis setis nonnullis, rigidis, radiantibus præditis; ascis saccatis, breviter stipitatis, crasse tunicatis, 120-150 \approx 14-20, octosporis; sporidiis oblongis, ellipticis, 5-7-septatis, murali divisis, septis levissime contractis, 20-25 \approx 8-10 subflavidulis.

Hab. in culmis senescentibus Secalis, Lyon Galliæ.

JULELLA Fabr. — Sacc. Syll. II, pag. 289.

104. **Julella Tulasnei** (Crouan) Berl. et Vogl. Huc ducenda *Rosellinia* 1119
Tulasnei Sacc. Syll. I, p. 276 (Cfr. iconem Crouanianam).

TEICHOSPORA Fuck. — Sacc. Syll. II, p. 291.

*4. **Teichospora Eucalypti** (Cooke et Hark.) Berl. et Vogl. *Sphaeria* 7105

Eucalypti Cooke et Harkness in Grevillea XIII, p. 20. — Sparsa; peritheciis subsuperficialibus, parvis, subglobosis, atris; ascis cylindræcis, octosporis; sporidiis uniseriatis, ellipticis, medio leniter constrictis, 5-7-septatis muriformibusque, fuscis, 20-22 \approx 8.

Hab. in ligno putri Eucalypti in California.

*5. **Teichospora vilis** (Fr.) Berl. et Vogl. *Sphaeria vilis* Fr. S. M. II, 3226

p. 466, *Melanomma vile* Fuck. Symb. myc. p. 160, Sacc. Syll. II, p. 100, Winter in Hedwigia 1886, pag. 103. — Sporidia oblonga, utrinque rotundata, transverse 3-septata, cellulis mediis plerumque longitudinaliter septatis, medio constricta, luteo-fusca, 12-15 \approx 4-5,5.

- *6. **Teichospora oxythale** Sacc. et Br. *Myce. Mic.* II, p. 22, n. 98, 7106
tab. X, f. 24. — Peritheciis sparsis, e basi infossa superficialibus, globoso-conicis, $\frac{3}{4}$ mm. diam., atris, carbonaceis, ostiolo acute papillato; ascis, tereti-cylindræis, breve et crasse stipitatis, paraphysatis, octosporis, 100-120 \approx 14-16; sporidiis oblongo-ellipsoideis, utrinque rotundatis, 26-30 \approx 9-11, 5-septatis paræque muriformibus, non constrictis, fuligineis.

Hab. in cortice duriore Salicis, Troyes Galliæ (BRIARD).

17. **Teichospora brevirostris** (Fr.) Fuck. — Sacc. *Syll.* II, p. 295, 3892
Winter in Hedwigia 1886, p. 103. — Perithecia demum plus minusve emergentia v. ostiolo tantum emersa, rugulosa, ostiolo conico-subcylindræo, perforato prædita, 450-470 μ . lat., 600-660 μ . alta; asci deorsum attenuati, 95-120 \approx 10-12; sporidia plerumque subinæquilateralia, 3-5 transverse septata, sepimento in longitudine uno, imperfecto, ad septa non vel perparum constricta, obliqua monosticha, aureo-fuscidula, 14-19 \approx 7-7,5; paraphyses filiformes.
19. **Teichospora obducens** (Fr.) Fuck. — Sacc. *Syll.* II, p. 295, *Var. Hippophaes* Karst. in Hedw. 1884, n. 4, p. 5, et *Rev. atque Synop. Asc. fenn.* p. 33. — Sporidiis ovoideis, ad medium constrictis, 5-7-septatis, loculis, ultimis exceptis, septulo unico, longitudinali divisis, luteolis vel flavis, pellucidis, 22-27 \approx 9-12.

Hab. ad lignum ramorum Hippophaës rhamnoidis prope Vasam Fenniæ.

20. **Teichospora ignavis** (De Not.) Karst. — Sacc. *Syll.* II, p. 296, Winter in Hedwigia 1886, p. 103. *Sec. cl. Winter* (l. c.) huc referenda est *Teich. Morthieri* Fuck. — Perithecia sparsa vel subgregaria, mox initio superficialia, mox primo immersa, demum erumpentia, ostiolo distincto, papilliformi, obtuso, perforato, sæpe circa ostiolum umbilicata, rugulosa, $\frac{1}{2}$ mm. diam., substantia crassa firma; sporidia 7-septata, flavo-fusca, murali-divisa.

- *29. **Teichospora Olenjensis** Karst. in Hedw. 1884, n. 4, p. 5. — *Rev. atque Synop. Ascom. fenn.* p. 33. — Peritheciis subgregariis, basi applanatis, levibus, atris, ostiolo papillato, 4-5 mm. lat.; sporidiis octonis, elongatis, utrinque attenuatis, ad medium plus minus constrictis, 7-9-septatis, loculo uno alterove septulo unico longitudinali diviso, fuscis vel fuligineis, impellucidis, 40-51 \approx 10-15.

Hab. in ramis decorticatis aridis Salicum in insula Olenji Maris glacialis.

- *34. **Teichospora muricata** Ell. et Ev. in *Bull. Wash. Lab. Nat. Hist.* 1884, p. 5. — Peritheciis superficialibus, hemisphæricis, $\frac{1}{3}$ - $\frac{1}{2}$

mm. diam., sparsis vel subgregariis, udis olivaceis, siccis atris collapsisque, muricato-rugulosis, sæpe circa ostiolum prominulum, subcompressum radiato-sulcatis; ascis $125 \approx 15$, evanescentibus; paraphysibus copiosis, crassiusculis. granulosis, $2\frac{1}{2}$ -3 μ . latis; sporidiis oblongo-ellipsoideis, $18-25 \approx 10-11\frac{1}{2}$, 3-septatis, demum submuriformibus, brunneis.

Hab. in cortice exteriori arborum, San Diego Amer. bor. (C. R. ORCUTT). — A *T. pezizoide* peritheciis rugosis, majoribus, demum collapsis, ascorum sporidiorumque magnitudine differt.

- *35. **Teichospora patellaris** Karst. Fung. Fenn. atque Sib. in Medd. af Soc. pro Faun. et Fl. fenn. II, 1884, p. 139. — Rev. atque Synop. Ascom. fenn. p. 34. — Peritheciis subgregariis, erumpenti-superficialibus, atris, opacis, 4-6 mm. lat.; ascis cylindraceo-clavatis, $150 \approx 14$; sporidiis octonis, monostichis, sphæroideo-ellipsoideis, 3-septatis, septulo longitudinali obsoleto accedente, loculis guttula unica, minuta, chlorina præditis, $15-21 \approx 10-12$; paraphysibus filiformibus. 7105

Hab. ad lignum et corticem truncorum resinorum pr. Tervasalmi in parœcia Kuhmo Ostrobotniæ in Fennia.

- *42. **Teichospora Wainioi** Karst. Fung. Fenn. atque Sib. in Medd. af Soc. pro Faun. et Fl. Fenn. II, 1884, p. 139, et Rev. atque Synop. Ascom. fenn. p. 33. — Peritheciis gregariis, demum superficialibus, ovoideo-sphæroideis, tandem sæpe vertice plus minus collapsis, scabriusculis, vix nitentibus, nigris, 3-4 mm. lat., ostiolo papilliformi; sporidiis di- vel submonostichis, ovoideo-oblongatis vel elongatis, 2-6, vulgo 3-6-septatis, raro loculo secundo vel tertio septulo longitudinali diviso, ad septa leviter constrictis, rectis vel subcurvulis, fuscidulis, pellucidis, $15-21 \approx 5-6$; paraphysibus numerosis, filiformibus, haud bene discretis. 7110

Hab. ad lignum vetustum in parœcia Hollola Fenniæ. — *Teichospora deflectenti* proxima.

- *45. **Teichospora rostrata** Karst. in Rev. Myc. 1885, pag. 107. — Peritheciis discretis vel concretescentibus, primitus sub epidermide nidulantibus, demum liberis, superficialibus, subsphæroideis, atris, ostiolo conoideo obtuso, peritheciis duplo brevioribus, circiter 0,4 mm. lat.; ascis cylindraceis, $125 \approx 10$, octosporis; sporidiis monostichis, ellipsoideis, utrinque obtusissimis, ad medium constrictis, 3-5-septatis, loculis mediis septo longitudinali divisis, hyalinis, $16-21 \approx 9-10$; paraphysibus haud bene discretis. 7111

Hab. ad ramos exsiccatos Ribis alpini prope Mustiala Fennicæ. — *T. propendula* affinis.

- *46. **Teichospora cervariensis** Sacc. et Berl. Misc. Myc. II, p. 28, 7112
n. 124, tab. VIII, fig. 5. — Peritheciis basi adnata superficialibus, globoso-conicis, breve sed acute papillatis, $\frac{1}{3}$ mm. diam., atris, laxe gregariis, glabris; ascis tereti-clavulatis, brevissime stipitatis, parce paraphysatis, 160-170 \approx 20-25, octosporis; sporidiis subdistichis, oblongo-fusoideis, utrinque acutiusculis, 10-12-septato-muriformibus, ad septa duo intermedia parum constrictis, 50 \approx 16, hyalinis.

Hab. in ramis putridis decorticatis Quercus pedunculatæ, Cervarese in provincia patavina Ital. bor.

Observatio

Genus **Winteria** in Sylloge sub *Hyalophragmiis* militans, sporidiis septulis longitudinalibus præditis potius inter *Dictyosporas* adhibendum (Confr. Winter Die Pilze II, p. 280) et apud genus *Teichosporam* locandum.

WINTERIA Rehm — Sacc. Syll. II, pag. 225.

1. **Winteria crustosa** E. et E. in Jour. of Myc. I, p. 149. — Peritheciis membranaceis, $\frac{1}{3}$ - $\frac{1}{2}$ mm., depresso-hemisphæricis, tuberculosus, apice rugosis, laciniato-ruptis, partim connexis vel insidentibus, subiculo atro, crustaceo, plus vel minus distincto; ascis clavato-cylindraceis, 65-80 \approx 10; paraphysibus (?) filiformibus, mox in materia granulati solutis; sporidiis biseriatis, fusiformibus, 20-25 \approx 4-5, luteolis vel hyalinis languidis, gelatina involutis, plasmate in parte media diviso, raro 3-partito. 7113

Hab. in ligno decorticato Quercus, West Chester, Amer. bor. — «Sporidia an revera muriformia?».

2. **Winteria rhoïna** (E. et E.) Berl. et Vogl. *Sphæria rhoïna* E. et E. 7114
in Jour. of Myc. I, p. 149. — Peritheciis erumpentibus, dense gregariis, subseriatis, subglobosis, atris $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., membranaceis, tenuibus, vel collapsis et tunc concavis vel patellæformibus, ostiolo papilliformi vel plerumque 4-5-stellato-rupto; ascis 45-60 \approx 7-8, in parte media amplis; paraphysibus validis, linearibus, nucleolatis; sporidiis biseriatis, fusiformibus, luteolis, nucleolatis, rectis vel leniter curvatis, interdum constrictis, 20-25 \approx 2 $\frac{1}{2}$ -3.

Hab. in ligno putri Rhoïscopallinæ, Newfield, Amer. bor. — «Sporidia an re vera muriformia?».

3. **Winteria cœrulea** (E. et E.) Berl. et Vogl. *Sphæria cœrulea* E. 711E
 et E. in Journ. of Myc. I, 1885. — Peritheciis sparsis, membrana-
 ceis, applanatis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., epidermide primo integra, dein
 partim rupta et iis adhærente tectis, ostiolo amplo, papilliformi,
 obtuso, demum collapsio et tum umbilicatis; ascis 75-114 \approx 15-17,
 oblongo-cylindræis, 8-sporis inferne abrupte contractis, basi va-
 lida; paraphysibus, basi acutis, luteolis, multiseptatis (8-12), et
 submuriformibus, 30-35 \approx 7-8.

Hab. in cortice viva Coniferæ ejusdam in Americæ bor.
 (W. N. SUKSDORF).

4. **Winteria excellens** (Rehm) Sacc. Syll. II, pag. 226 est *Discomy-* 367E
ces, *Odontotremati minori* peraffinis (Confr. Winter Hedwigia
 1886, pag. 103).

PLEOSPHÆRIA Speg. — Sacc. Syll. II, p. 304.

- *4. **Pleosphæria modesta** Harkn. New Calif. Fungi p. 26. — Peri- 711E
 theciis superficialibus, orbicularibus, nigris, 135 μ . diam., setis ri-
 gidis, nigris, 40-50 μ . longis ornatis; ascis octosporis, ovatis vel
 late fusoides, 45-50 \approx 15-20; paraphysibus nullis; sporidiis elli-
 pticis, 3-4-septatis, septis 2 longitudinalibus, pallide olivaceo-brun-
 neis, 10 \approx 6.

Hab. in ramis decorticatis, putrescentibus Eucalypti, San
 Francisco in California.

CROTONOCARPIA Fuck. — Sacc. Syll. II, p. 306.

1. **Crotonocarpia moriformis** Fuck. — Sacc. Syll. II, p. 306, Winter 293E
 in Hedwigia 1886, p. 101. — Asci cylindrici, breve pelicellati, 8-
 spori, 175 \approx 14-16.

CUCURBITARIA Gray. — Sacc. Syll. II, p. 307.

- *4. **Cucurbitaria Coremæ** Ell. et Ev. in Torr. Bot. Club. 1883, p. 89. 711E
 — Peritheciis primum epidermide tectis, demum liberis, ovatis, ni-
 gris, rugosis, 160-330 μ . diam., ostiolis late papilliformibus vel
 obtuse conoideis; ascis cylindræis, 150 \approx 15; sporidiis monostichis
 vel oblique aut partim distichis, ellipsoideis vel oblongo-ellipsoi-
 deis, primo luteis demum brunneis, circiter 7-septatis, nonnullis
 septulis longitudinalibus, imperfectis divisis, medio constrictis, 20-
 25 \approx 7-9.

Hab. in ramis emortuis Coremæ Conradii, Willow Grove
 in America boreali.

10. **Cucurbitaria Amorphæ** (Wallr.) Fuck. — Sacc. Syll. II, p. 311. 3944
— Asci longe pedicellati, 155-175 \approx 12-16; sporidia monosticha, 5-7 transverse septata, muriformia, medio subconstricta, 21-30 \approx 9-11.
- *10. **Cucurbitaria longitudinalis** Peck in 33 Rep. St. Mus. pag. 31. 7118
tab. 2, fig. 23-26. — Peritheciis 500-750 μ . diam., subglobosis, in series longitudinales dispositis in rimis corticis, nigris, apice perforatis; ascis cylindræis; sporidiis monostichis, 4-5-septatis, 1-2-septis longitudinalibus divisis, coloratis, 28-32 \approx 10-12,5.
Hab. in caulibus *Andromedæ ligustrinæ*, Center in America boreali.
12. **Cucurbitaria delitescens** Sacc. Syll. II, p. 311, ***Prunorum** Sacc. 3946
in Misc. Myc. I, p. 5. — Peritheciis in cæspitulos collectis, transverse erumpentibus, globosis subinde confluentibus, obtuse papillatis, minutis, atris, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; ascis tereti-clavulatis, paraphysatis, breve stipitatis, 170 \approx 20-25 p. sporif., octosporis; sporidiis oblique monostichis, obovato-ellipsoideis, apice obtusioribus, 28-32 \approx 15, 7-septatis denseque muriformibus, ad septum medium manifeste, ad cetera vix constrictis, 25-32 \approx 12-15, olivaceo-fuliginæis.
Hab. in ramis corticatis *Pruni spinosæ* prope Troyes Galliæ (BRIARD). — A typo præcipue sporidiis majoribus differt.
15. **Cucurbitaria acervata** Fr. — Sacc. Syll. II, p. 313, Winter in 3949
Hedwigia 1886, pag. 105. — Asci 120-160 \approx 14-16; sporidia 5-7 transverse septata, in longitudine septo uno et sæpe imperfecto, fusca, 19-21 \approx 8-9.
24. **Cucurbitaria Negundinis** Winter in Hedwigia 1886, p. 105, *Cu-* 3958
curbitaria Ailanthi Rab. F. Eur. n. 1833, Sacc. Syll. II, p. 315.
— Perithecia plerumque conferta, mox superficialia, demum subumbilicata, scabra, nigra, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; asci 4-6-8-spori, 140-180 \approx 14-16; sporidia monosticha, oblonga, utrinque acutiuscula, medio constricta, sæpe inæquilateralia, aureo-fusca, 7-septata, muriformia, 26-30 \approx 10-11; paraphyses filiformes. — In *Negundine*!
- *26. **Cucurbitaria Cingarus** Schulz et Sacc. in Rev. Myc. 1884, Schulz. 7119
Ill. fung. Slav. n. 797. — Peritheciis hinc inde cæspitose aggregatis, initio peridermio tectis dein erumpentibus, globoso-depressis, minutulis, $\frac{1}{3}$ mm. vix diam., subcarbonaceis, opace nigris, ostiolo impresso minuto; ascis tereti-clavulatis, paraphysatis, octosporis, subsessilibus; sporidiis subdistichis, subellipticis, utrinque obtuse acutatis, 30-38 \approx 12-15, 5-septatis paræque muriformibus, ad septa vix constrictis, melleis.

Hab. in ramis corticatis Coryli Avellanæ prope Vinkovce Slavoniæ. — Adsunt perithecia spermogonica subsimilia (*Phoma Cingarus*), sporulis subglobosis vel ovoideis, 4 μ . longis, hyalinis; basidiis triplo longioribus suffultis.

- *36. **Cucurbitaria hirtella** Bacc. et Avett. Contr. Stud. myc. roman. 7120
p. 17, t. XVI, f. 5. — Peritheciis stromate pulvinato, late effuso-
insidentibus, nigris, sphæroideis vel piriformibus, initio tectis dein
erumpentibus, aculeis brevibus, conicis, concoloribus hirtis, ostiolo
papillato, conico; ascis 8-sporis, clavulatis, evanescentibus, 55-75 \approx
11-14; sporidiis inordinatis vel distichis, pallide luteolis, transverse
tri-vel tetrseptatis, loculis mediis longitudinaliter uniseptatis, el-
lipticis, ad medium constrictis, 14-20 \approx 7; paraphysibus non visis.

Hab. in ramulis putrescentibus Sambuci, Roma Ital. merid.

39. **Cucurbitaria salicina** Fuck. — Sacc. Syll. II, p. 320. *Var. popu-* 3973
lina Bacc. et Avett. Contr. Myc. Rom. pag. 19, tab. I, fig. 13-17. —
A typo differt præcipue sporidiis ovoideo-oblongis, medio non con-
strictis, brevioribus crassioribusque, 18-20 \approx 9-11, nec non matrice.

Hab. in ramis exsiccatis Populi, sociâ *Diplodiâ salicinâ* Roma Ital. merid.

45. **Cucurbitaria Dulcamaræ** Fr. — Sacc. Syll. II, p. 321, Winter in 3979
Hedwigia 1886, p. 105. — Perithecia acervulos vel cæspites mi-
nutos, rotundatos, ellipticos seu oblongos, sæpe confluentes elon-
gatosque, erumpentes formantia, mox depressa et collapsa, nigra;
asci cylindracei, deorsum attenuati, 8-spori, 130-160 \approx 12-14; spo-
ridia monosticha, oblonga, medio subconstricta, 3-8 transverse se-
ptata, sepimento uno, plerumque imperfecto in longitudine, 19-25
 \approx 9-10,5, rarius 35 μ . longa; paraphyses filiformes.

- *46. **Cucurbitaria umbilicata** Ell. in Torr. Bot. Club. 1883, p. 53. — 7121
Peritheciis sparsis, depresso-hemisphæricis, nigris, rugosis, 330-500
 μ . diam., sursum siccitate collapsis; ascis cylindraceis, 114 \approx 11;
sporidiis sæpe monostichis, ellipsoideis, primo 3-septatis, medio con-
strictis, luteis, dein muriformibus, brunneis, 22-28 \approx 9 $\frac{1}{2}$ -13.

Hab. in caule decorticato Salviæ (*Sage-brush*) Utah Amer.
bor. (HARKNESS).

THYRIDIDIUM Sacc. Syll. II, p. 323.

- *1. **Thyridium Garryæ** (Cooke et Hark.) Berl. et Vogl. *Sphæria Gar-* 7122
ryæ Cooke et Harkness in Grevillea XIII, p. 20. — Gregarium
sparsumve; peritheciis semiimmersis, subglobosis, atris, $\frac{1}{2}$ mm. d.,
poro pertusis; ascis cylindraceis, 4-8-sporis; sporidiis ellipticis, 7-

septatis muriformibusque, hyalinis, demum flavido-fuscis, 40-45 \approx 15-18; episporio crasso, hyalino.

Hab. in ramis decorticatis, dealbatis Garryæ in California (HARKNESS).

- * 2. **Thyridium antiquum** (Ell. et Ev.) Berl. et Vogl. *Sphæria anti-* 7123
qua Ell. et Ev. in Torr. bot. Club. 1883, pag. 91. — Peritheciis sæpe solitariis, globosis, 250-330 μ . diam., 2-3-gregariis, cortice immersis atque fibris corticis, sursum nigrescentis, tectis eumque in pustulas tuberculiformes elevantibus, ostioli papilliformibus, demum perforatis; ascis cylindraceutis, 75-80 \approx 10; paraphysibus filiformibus, copiosis; sporidiis monostichis, oblongo-ellipsoideis, demum triseptato-muriformibus, 17-19 \approx 7, brunneis.

Hab. in cortice interiore truncorum *Vitis viniferæ* Newfield Amer. bor.

- * 4. **Thyridium personatum** (Cooke et Hark.) Berl. et Vogl. *Sphæria* 7124
personata Cooke et Harkn. in Grevillea XIII, p. 20. — Lignicolium; peritheciis sparsis in tuberculo ligneo, ellipsoideo, elevato, griseo vel nigrescente nidulantibus, ostiolo brevi, vix conspicuo, pertuso; ascis cylindraceutis, octosporis; sporidiis uniseriatis, ellipticis, medio constrictis, triseptatis, septis 1-2-longitudinalibus percursis, læte brunneis, 18-20 \approx 10.

Hab. in ligno decorticato *Acaciæ* in California (HARKNESS).

FENESTELLA Tul. — Sacc. Syll. II, p. 325.

- * 1. **Fenestella callispora** (Duby) Cooke in Grev. XIV, p. 48, *Sphæ-* 7125
ria callispora Duby in herb. Curtis. — Immersa, pustulata, erumpens, epidermide fissa tecta; peritheciis paucis, minutissimis, globosis, congestis; ostioli subnullis; ascis clavatis; sporidiis elliptico-acuminatis, magnis, biserialibus, quinqueseptatis muriformibusque, luteo-fuscis, 30-40 \approx 18.

Hab. in ramis *Broussonetiæ papyriferae*, Geneve Helvetiæ.

- * 6. **Fenestella hormospora** (Berk. et Curt.) Cooke in Grevillea XIV, 7126
 pag. 48, *Valsa hormospora* Berk. et Curt. in Herb. Berk. *Valsa conjuncta* Schwein. (nec Fries) Amer. n. 1383. — Peritheciis paucis, in circulos irregulares confertis, disco erumpente, orbiculari, albido, pulverulento; ostioli brevibus, subconjunctis; ascis amplis, clavatis; sporidiis subellipticis, utrinque muticis, medio constrictis, 5-septatis, demum merenchymaticis, fuscis.

Hab. in ramis, Bethlehem Amer. bor.

- * 10. **Fenestella schistostroma** (Duby) Cooke in Grevillea XIV, p. 48, 4504

Sphæria schistostroma Duby in Rab. Fungi Eur. n. 53 et Sacc. Syll. II, p. 441. — Immersa, demum erumpens, epidermide cincta; peritheciis 5-15 aggregatis, ovatis, verticalibus inclinatisve, stromate nigro, inæquabili, primum compacto, demum in fragmenta plura diffisso tectis; ostiolis vix prominulis, sæpe obsoletis; ascis cylindrico-elongatis rigidis; sporidiis uniserialibus, ovoideo-ellipsoideis, primo uni-demum 3-5-septatis, et tandem merenchymaticis, hyalinis.

Hab. in ramis Ribis aurei, Geneve Helvetiæ.

Sect. 9. Scolecosporæ Sacc.

OPHIOBOLUS Riess. — Sacc. Syll. II, p. 337.

- *1. **Ophiobolus olivaceus** (Ellis) Berl. et Vogl. *Leptosphæria olivacea* Ellis in Torr. Bot. Club. 1188 p. 53. — Peritheciis submembranaceis, circiter 250 μ . diam., substantia caulis immersis, epidermide vix elevata olivaceo-brunnea, ostiolo late rugoso, obtuso perforata tectis; ascis clavatis, 75-85 \approx 15-18; sporidiis stipatis, luteo-brunneis, vermiformibus, 6-7-septatis, demum ad septa leniter constrictis, 75 \approx 3 $\frac{1}{2}$ -4, loculo tertio, ab apice, leniter inflato. 7127

Hab. in caulibus herbaceis, Utah Amer. bor. (HARKNESS).

- *2. **Ophiobolus vulgaris** Sacc. Syll. II, p. 338. *Var. Gnaphalii* Sacc. et Br. in Rev. Myc. 1885. — Peritheciis innatis, conico-globosis, $\frac{1}{2}$ mm. diam., tomento matricis immersis; ostiolo papillato, prominulo; ascis cylindræo-clavatis, sessilibus, basi nodosulis, octosporis, 120-132 \approx 6-7; paraphysibus crassis, simplicibus, paucis; sporidiis fasciculatis parallelis, luteis, filiformibus, curvis vel flexuosis, multiguttulatis vel multiseptatis, 108-124 \approx 2-3. 4018

Hab. in caulibus exsiccatis Gnaphalii silvatici, Troyes Galliæ (BRIARD).

- *3. **Ophiobolus Medusæ** E. et E. in Jour. of Myc. I, p. 150. — Peritheciis membranaceis, sparsis, depresso globosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., epidermide non nigrescente, nec elevata, sed ostiolo atro punctiformi perforata tectis; ascis longissimis, 400 \approx 12-15, 8-sporis; sporidiis filiformibus, curvatis; ascorum longitudinem æquantibus, in parte media 3-3 $\frac{1}{2}$ μ . latis, utrinque gradatim conicis, luteolis v. fere hyalinis, endochromate multi-partito. 7128

Hab. in caulibus Spartinae, Cape May Amer. bor.

- *7. **Ophiobolus claviger** Harkn. New Calif. Fungi p. 23. — Peritheciis globularibus, ostiolo papillato præditis, gregariis vel sparsis, 7129

erumpentibus, demum liberis, $\frac{1}{3}$ -1 mm. diam., initio spermatii minutis faretis; ascis lineari-clavatis, octosporis, 210 \approx 14; paraphysibus filiformibus, vacuolatis; sporidiis pallide brunneis, 20-25-septatis, in tertia parte superiori sæpe tumidulis et constrictis, 140 \approx 7.

Hab. in caulibus repentibus Audibertiæ humilis, Folsom Californiæ.

- *8. **Ophiobolus Humuli** Karst. in Hedw. 1884, n. 6, p. 2. — Rev. 7130
 atque Synop. Ascom. fenn. pag. 28. — Peritheciis subgregariis, denique subsuperficialibus, subsphæroideis v. sphæroideo-conoideis, subinde leviter depressis, atris, filamentis griseis obsessis, ostiolo conoideo vel cylindraceo, perithecii diametrum sæpe æquante, 3 mm. lat.; ascis cylindraceo-clavatis, 90-120 \approx 7-10; sporidiis octonis, filiformibus, æqualibus, curvatis, pluriguttulatis, dilute luteolis, 75-90 \approx 2; paraphysibus parvis, 2-3 μ . crass.

Hab. in caulibus aridis Humuli Lupuli ad Mustiala Fenniæ.

- *9. **Ophiobolus incomptus** Niessl in Lih. Fung. hung. n. 472. — Pe- 7131
 ritheciis disseminatis, sub epidermide pallescente globosis, vix depressis, 0,26-0,30 mm. diam., atris, glabris, ostiolo conico, mox brevi, apice rotundato; ascis cylindraceis, in stipitem brevem attenuatis, 115-135 \approx 9-10, octosporis; sporidiis stipatis, filiformibus sed inferne leniter angustatis, 15-17(plerumque 16)-cellularibus, loculo quarto vel quinto sæpe nodoso, parum flexuosis, dilute lutescentibus, 95-110 \approx 3; paraphysibus simplicibus vel laxe ramosis.

Hab. in caulibus emortuis Dipsaci silvestris, Petrozsény Hungariæ.

- *19. **Ophiobolus stenosporus** Karst. in Hedw. 1883, n. 12, p. 3. — Rev. 7132
 atque Synop. Ascom. fenn. pag. 28. — Peritheciis sparsis, primitus epidermide tectis, dein denudatis, forma variis, ut plurimum sphæroideis, exiguis, basi hyphis sparsis, fuliginis cinctis, ostiolo brevi; ascis cylindraceis, 90-116 \approx 6-7; sporidiis octonis, filiformibus, flexuosis, pluriguttulatis, luteolis, 50-80 \approx 1-1,5; paraphysibus flexuosis.

Hab. in caulibus Scrophulariæ nodosæ emortuis prope Mustiala.

25. **Ophiobolus Hesperidis** Sacc. Syll. II, p. 343. *Var. Geranii* Karst. 4042
 in Hedw. 1884, n. 1, p. 3. — Rev. atque Synop. Ascom. fenn. p. 27. — Peritheciis innato-emergentibus, subgregariis, ostiolo acuto, conoideo, subinde perithecium dimidium subæquante, exsertis, minutis; ascis anguste cylindraceis, subsessilibus, tortuosis, 150-170 \approx 6-7; sporidiis filiformibus, simplicibus vel guttulatis, ex hyalino

dilute luteolis, fere longitudine asci, 1-1,5 μ . crass.; paraphysibus filiformibus.

Hab. in caulibus emortuis Geranii silvatici ad Mustiala Fenniae — Parum vel vix differt ab *Oph. tenello*.

- * 37. **Ophiobolus Morthieri** Sacc. et Berl. Misc. Myc. pag. 20, n. 87, tab. X, fig. 20. — Peritheciis gregariis, globoso-conoideis, atris, ostiolo brevi, nudo, $\frac{1}{2}$ mm. diam., demum detectis, hyphis adpressis, radiantibus, ochraceo-fuligineis, tortuosis, septatis, 4-5 μ . cr. vestitis; ascis cylindræis, breve stipitatis, paraphysatis, 100-120 \approx 8-10 p. spor., stip. 30-35 μ . long. v. brevioribus; sporidiis cylindræo-bacillaribus, 90-100 \approx 2, 8-multiguttulatis, eximie convolutis, e hyalino dilutissime luteolis. 7133

Hab. ad caules Gentianæ luteæ aux Loges près Neuchâtel Helvetiæ. — Affinis *Oph. persolino* et *O. pellito*, a quibus sporidiis valde curvis et ascis conspicue brevioribus satis differt.

- * 43. **Ophiobolus byssicola** Harkn. New Calif. Fungi pag. 26. — Peritheciis globosis, ostiolo prominulo, superficialibus, $\frac{3}{4}$ -1 mm. d., in subiculo sordide brunneo nidulantibus; ascis octosporis, cylindræo-clavatis, pedunculo gracili, basi incrassato præditis, 170 \approx 16; sporidiis pallide brunneis, cylindræis, utrinque obtuse attenuatis, 20-30-septatis, constrictis, 120-140 \approx 4-6, loculo apicali et uno v. tribus, inæquali intervallo, globuloso-inflatis. 7134

Hab. in ramis decorticatis Sambuci glaucæ, Blue Canon in California.

- * 44. **Ophiobolus inflatus** Sacc. et Br. in Rev. Myc. 1885. — Peritheciis sparsis, vix conspicuis, cortice immersis, basi hyphis brunneis cinctis; ostiolo obtuso, punctiformi, epidermidem perforante; ascis cylindræo-clavatis, sessilibus, basi nodulosis, octosporis, 120-160 \approx 8-10, paraphysibus filiformibus obvallatis; sporidiis fasciculatis, parallelis, filiformibus, pallide luteis, multiguttulatis vel simplicibus, subinde medio annulatim inflatulis, curvis vel flexuosis, 100-140 \approx 3. 7135

Hab. in ramis emortuis delapsis Betulæ albæ, Troyes Galliæ (BRIARD).

- * 46. **Ophiobolus salicinus** Rostrup Islands Svampe p. 7. — Peritheciis sphæroideis, collabascentibus, atro-fuscis, radiato-striatis, ligno adhærentibus, cortice tectis; ascis cylindræo-clavatis, 80-100 \approx 6-9; sporidiis filiformibus, rectis, hyalinis, pluriseptatis, 50-70 \approx 2; paraphysibus filiformibus. 7136

Hab. sub cortice Salicis glaucæ, Langardak Islandiæ.

- * 17. **Ophiobolus melioides** Rich. Spher. nouv. in Bull. Soc. Bot. Franc. 7137
1885, pag. 11, tab. XI. — Peritheciis gregariis, superficialibus, ovoideis v. turbinatis, subtomentosis, dilute fuscis, apice nigricante; pilis dematiaceis, septatis, plerumque rectis, perithecia ad basim arcte cingentibus et maculas 2-4 mm. diam. metientes, hirtas, nigro-fuscas, orbiculares, sparsas, in pagina inferiore foliorum efformantibus; ascis cylindraceutis vel cylindraceuto-subclavatis, 8-sporis, 100 μ . longis; sporidiis filiformibus, ascos longitudine fere æquantibus, 90 μ . longis, dilute flavescentibus; paraphysibus filiformibus continuis.

Hab. in pag. inf. foliorum plantæ ejusdam in Nova Caledonia.

- * 59. **Ophiobolus compar** Karst. in Hedw. 1884, n. 1, pag. 2. — Rev. 7138
atque Synop. Ascom. fenn. p. 27. — Peritheciis sparsis, macule purpurascenti insidentibus, subsuperficialibus, conoideo-sphæroideis, poro pertusis, atris, 2 mm. latis; ascis cylindraceutis, 120 \approx 5-6; sporidiis octonis, filiformibus, guttulatis, flavescenti-hyalinis, ascum subæquantibus, 1 μ . crass.

Hab. ad caules Asparagi officinalis emortuos in Mustiala Fennicæ.

- * 60. **Ophiobolus versisporus** E. et M. in Journ. of Myc. 1885, p. 99. 7139
— Peritheciis gregariis vel sparsis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., epidermide nigrescente, circa ostiolum, breve obtusum, erumpens albescente tectis; ascis 70-80 \approx 8-9; paraphysibus non visis; sporidiis filiformibus, curvatis, primum multinucleatis demum pallide luteis, enucleatis, continuis, 60-70 \approx 2-2 $\frac{1}{2}$.

Hab. in petiolis emortuis Sabalis serrulatæ in Amer. bor. 7140

- * 62. **Ophiobolus Peltigerarum** (Arnold) Berl. et Vogl. *Leptosphaeria*
Peltigerarum Arnold Lichenol. Ausfl. in Tirol XVIII, p. 25, et Winter Die Pilze II, p. 441. — Peritheciis minutis, sparsis, acervulos erumpentes formantibus, nigris; ascis longe cylindraceutis, 12-16-sporis; paraphysibus filiformibus, longe acicularibus, rectis vel leniter curvatis; sporidiis longe cylindraceutis, rectis vel leniter curvis, guttulis oleosis fæctis, 90-100 \approx 3.

Hab. in thallo Peltigeræ aphotosæ in Tirolia. — «An diversus ab *Oph. Peltigeræ*?»

- * 63. **Ophiobolus Steinii** (Körber) Berl. et Vogl. *Leptosphaeria* *Steinii* 7141
Steinii Winter Die Pilze II, pag. 443, *Leptorhaphis Steinii* Körb. in Bericht üb. botan. Lect. Schles. Ges. 1869, p. 67. — Peritheciis sparsis, fere omnino vel $\frac{2}{3}$ thallo immersis, globoso-depressis, ostiolo, atro, vix pertuso tantum prominentibus, molliusculis ob-

seure brunnæis, 0,1 mm. diam.; ascis fere obpiriformibus utrinque attenuatis, sessilibus, 8-sporis, 57-61 \approx 9-10; paraphysibus distinctis, filiformibus gracillimis; sporidiis elongato-fusoideis, inæquilateralibus vel leniter curvulis, 2-8-cellularibus, hyalinis, 22-40 \approx 2-3.

Hab. in thallo Lecanoræ frustulosæ in Germania.

- *61. **Ophiobolus Körberi** (Stein) Berl. et Vogl. *Leptosphaeria Körberi* 7142
 Winter Die Pilze II, pag. 443, *Leptorhaphis Körberi* Stein in Flechten Schles, pag. 350. — Peritheciis primo immersis, mox subsuperficialibus, nigris, nitidis, minutis, spheroides, apice poro minuto, sed distincto pertusis, 0,1 mm. diam.; sporidiis longe cylindraceis, plerumque rectis, et uno apice incrassatis, altero sensim attenuato-acutis, 4-8-septatis, hyalinis, 24-30 \approx 1-2, octonis; paraphysibus distinctis.

Hab. in thallo Körberiiellæ Wimmerianæ in Germania.

65. **Ophiobolus palustris** (Schr.) Berl. et Vogl. *Leptospora palustris* 7143
 Schroet. über ein von R. Fritze Mad. und. Ten. ges. Pilze p. 4. — Peritheciis matrice immersis, globosis, ostiolo perforato instructis, 0,6 mm. latis, levibus, nigris, fragilibus; ascis cylindraceis, longe pedicellatis, 220-260 \approx 16-20, p. sp. 120-130, octosporis; sporidiis distichis, longe cylindraceis, irregulariter incurvatis, utrinque rotundatis, 60-70 \approx 8-10, continuis granulosisque, hyalinis.

Hab. in Algis gelatinosis exsiccatis in insula Madeira.

- *66. **Ophiobolus staphylinus** E. et E. in Journ. of Myc. I, p. 150. 7144
 — Peritheciis minutis, ligni fibris tectis, ostiolis nigris rostellatis, subacutis, prominentibus; ascis linearibus, 120-160 \approx 4, 8-sporis; paraphysibus filiformibus; sporidiis filiformibus, luteolis, nucleolatis, ascorum longitudinem æquantibus.

Hab. in caulibus decorticatis Staphyleæ trifoliæ, West Chester Amer. bor.

LINOSPORA Fuck. — Sacc. Syll. II, p. 354.

- *1. **Linospora insularis** Johans. Svamp. fran. Island p. 171, t. XXIX, 7245
 fig. 13. — Peritheciis sparsis vel gregariis, parenchymate innatis, epidermidem infantibus, depresso-globosis vel elongatis, 330-450 μ . diam., rostro laterali, 200-370 μ . longo, epidermidem perforantibus, pseudostromate vix distincto; ascis cylindraceis, in stipitem acutum attenuatis, octosporis, 135-200 \approx 7-9; sporidiis parallele stipatis, filiformibus, 1-septatis, loculo superiore brevior et vix vel lenissime crassiore, hyalinis, 100-120 \approx 3.

Hab. in foliis emortuis Salicis lanatæ, Eskifjördur Islandiæ orientalis.

- * 14. **Linospora ferruginea** Ell. et Mart. Amer. Nat. 1881, pag. 69. 7146

— Maculis pallidis, luteo-brunneis, obscure marginatis, vix tumidulis, $1\frac{1}{2}$ -2 mm. diam.; peritheciis nigris, subglobosis, 150 μ . d., uno in quaque macula immersis, epidermide nigrescente, ostiolo vix prominulo perforata, tectis; ascis cylindræis, 75-80 \approx 7, sessilibus vel brevissime pedicellatis, paraphysibus copiosis, linearibus, obvallatis, octosporis; sporidiis filiformibus, luteolis, obscure nucleatis, utrinque acutis, 35-45 \approx $1\frac{1}{2}$.

Hab. in foliis Andromedæ ferruginæ, New Florida Americæ borealis.

- * 15. **Linospora Viburni** (Buckn.) Berl. et Vogl. *Hypospila Viburni* 7147

Bucknall. in Grevillea XII, pag. 44. — Epiphylla, sparsa, nigricans; pseudo-peritheciis convexis, subrugosis, folio innatis, prominentibus, astomis, suborbicularibus, cellulosis; ascis cylindræis, octosporis; sporidiis stipatis, filiformibus, hyalinis, 160 μ . longis.

Hab. in foliis emortuis Viburni lantanae, Bristol Britanniae (C. BUCKNALL).

- * 16. **Linospora? guaranítica** Speg. Fung. Guar. Pug. I, n. 231. — 7148

Maculis vix nubiloso-manifestis, fusciscentibus, indeterminatis; peritheciis hypophyllis, sparsis vel laxissime gregariis, subglobosis, 80-100 μ . diam., parenchymate immersis, ostiolo crassiusculo, mammillato, prominulo, epidermidem perforante exertoque donatis, atris, glabris, coriaceis, contextu indistincto, opaco, fuligineo-olivaceo; ascis cylindræo-clavulatis, apice rotundatis vel truncatis, crassiuscule tunicatis, basi vix attenuato-pedicellatis, 65-70 \approx 9, paraphysatis, 8-sporis; sporidiis fasciculatis, aciculari-elongatis, 55-65 \approx 2-2,5, leniter curvulis, utrinque acutiusculis, medio attenuatis, dense guttulatis (an postremo pluriseptatis?), hyalinis.

Hab. ad folia viva vel languida Myrtaceæ speciei cujusdam in silvis subvirginis prope Guarapi Bras.

DILOPHIA Sacc. Syll. II, pag. 357.

1. **Dilophia punctata** Winter in Hedwigia 1886, p. 101. — Perithe- 7149

ciis sparsis vel gregariis, sæpe dense stipatis, omnino immersis, subglobosis, basi applanatis, ostiolo brevi, cylindræo, parum prominulo, epidermide circa ostiolum nigrefacta semper tectis, atris, membranaceis, 300 μ . latis; ascis cylindræo-lanceolatis, utrinque, deorsum autem magis, attenuatis, sessilibus paraphysatis, vertice

obtusio incrassatoque, 8-sporis, 120-140 = 10-12; sporidiis inordinatis, conglobatis, elongato-fusoideis, parum curvatis, utrinque acutiusculis, hyalinis, transverse pluriseptatis, 78-88 = 5.

Hab. in petiolis putridis Musæ in insula St. Thomé Africae occidentalis.

CRYPTOSPORA Tul. — Sacc. Syll. II, p. 361.

- *3. **Cryptospora Caryæ** Peck 38 Rep. Stat. Mus. pag. 106, tab. 2, 7150
fig. 28-31. — Stromatibus sparsis, epidermide tectis, erumpentibus, linea atra circumscriptis vel sub epidermide crusta atra velatis; peritheciis 4-12 in quoque stromate globosis vel pressione angulosis; ostiolis stipatis, prominulis, subglobosis, æqualibus, nigris; ascis subclavatis, 100-125 = 12-15; sporidiis stipatis vel distichis, subcylindraceis in parte inferiore v. utrinque leniter acuminatis, granulosis, denique spurie 3-5-septatis, 40-60 = 6-7, hyalinis.

Hab. in ramis Caryæ albæ, Knowersville Amer. bor.

5. **Cryptospora corylina** (Tul.) Fuck. — Sacc. Syll. II, p. 363. Huc 4144
ducenda est *Sphæria versatilis* Fries S. M. II, 364 et Sacc. Syll. II, p. 372. (Cfr. Cooke in Grevillea XIII, p. 370). — Sporidia sunt cylindracea, flexuosa, nucleata, hyalina, 50 μ . longa.

- *5. **Cryptospora umbilicata** (Pers.) Berl. et Vogl. *Sphæria umbilicata* Pers. Syn. p. 45. Sacc. Syll. II, p. 487 et Cooke in Grevillea XIII, p. 39. — Sporidia ovoidea, hyalina, 6,2 = 5. 4210

- *6. **Cryptospora tomentella** (Peck.) Berl. et Vogl. *Valsa tomentella* 7151
Peck in Thirty-fifth. Rep. St. Mus. Bot. 1884, pag. 144. — Peritheciis quaterno-octonis, subcircinatis, in parte interiore corticis nidulantibus, nigris, basi tomento albo vestitis, disco lanceolato, albido vel brunneo, rima angusta, utrinque acuta erumpentibus, ostiolis atris, levibus punctulato; ascis oblongis, latis, subcylindraceis, vel fusiformibus, sessilibus, 50-80 μ . longis; sporulis cylindraceis, stipatis, curvulis, utrinque obtusis, sæpe multinucleatis, 50-67 = 4-5, hyalinis.

Hab. in cortice Betulæ populifoliæ, New Albany Americae borealis.

- *8. **Cryptospora vasculosa** (Fr.) Cooke in Grevillea XIII, pag. 39, 4203
Sphæria vasculosa Fries S. M. II, 408, et Sacc. Syll. II, p. 486. — Sporidia cuneata, nucleata, 8-12.

- *9. **Cryptospora Bambusæ** Speg. Fung. Guar. Pug. I, n. 232. — Stro- 7152
matibus sub vel in cortice nidulantibus, lineari-elongatis, laxe gregariis, parallele longitudinalibus, primo epidermide tectis, dein hy-

steriatim erumpentibus, non vel vix exertulis, extus griseis vel sordide fuscis, intus sordide albo-subceraceis, pauciperitheciigeris; peritheciis stromate immersis, ex ovoideo-globosis, 150-300 μ . d., ostiolo minuto, conoideo, subcarbonaceo, stroma perforante ejusdemque superficiem vix attingente donatis, tenui membranaceis, olivaceis, contextu denso, minuto, inconspicuo, fusco; ascis clavatis, utrinque attenuatis, apice truncatis crassissimeque tunicatis perforatisque, basi breviter elongato-stipitatis, 95-100 \approx 12-14, paraphysibus quandoque nullis, quandoque densis, hyalinis, submacosis, simplicibus vel ramulosis, crassiusculis obvallatis, 8-sporis; sporidiis elongato-fusiformibus vel subacicularibus, utrinque acutatis ac leniter curvulis, 40-50 \approx 6-7, fasciculatis, 3-septatis, ad septa non constrictis, loculis crasse 1- vel 2-guttulatis, hyalinis.

Hab. ad culmos dejectos putrescentes *Bambusacæ* cujusdam in silva subvirginea Caa-guazù Bras.

Fam. 3. **Coryneliæ** Sacc. in litt.

Perithecia coriacea, atra, lageniformia, ostiolo elongato, apice perforato, dein late infundibuliformiter expanso.

Clavis analytica Generum

Corynelia. Sporidia sphaerica, continua, fusca (*Phaeospora*).

Tripodpora. Sporidia stellata, 4-5-locularia, loculis radiantibus, atra (*Dictyospora*).

CORYNELIA Fries Obs. myc. II, p. 343 et S. M. II, p. 535, Winter Ueb. Gatt. Coryn. p. 123 (Etym. a *coryne* clava). — Perithecia lageniformia, coriacea, atra in collum, apice infundibuliformiter expansum, desinentia; in acervulos rotundatos, plerumque sparsos disposita, stromate pulvinato, erumpente insidentia; asci ovati, longe pedicellati, 8-spori; sporidia globosa, fusco-atra, levia, continua.

1. **Corynelia uberata** Fries Obs. myc. II, pag. 343 et Syst. myc. II, 7153 p. 535. Winter Ueb. Gatt. Coryn. p. 123, fig. 4-8, *Mucor clavatus* Lin. Spec. plant. Suppl. p. 453, *Sphaeria turbinata* Pers. Syn. p. 95. — Peritheciis lageniformibus, coriaceis, atris, collo elongato, cylindrico, poro pertuso, demum apice dilatato præditis, acervulos rotundatos, plerumque sparsos, rarius subgregarios, 1-3 mm. latos formantibus, basi stromate pulvinato, erumpente insidentibus; ascis ovatis, longissime pedicellatis, 8-sporis, 36-44 \approx 20-26, (parte

spor.); sporidiis conglobatis, globosis, perparum angulatis, fusco-atris, levibus, continuis, 10-11 μ . diam.; spermatiis oblongo-fusiformibus, continuis, hyalinis, 6-7 \approx 2.

Hab. ad Podocarpi Thunbergii folia, ramulos fructusque in Suecia, Germania, Britannia.

TRIOSPORA Sacc. in litt. (Etym. a *tripos* et *spora*). — Perithecia lageniformia, coriacea, atra, in collum apice infundibuliformiter expansum desinentia, plerumque in series disposita. Asci ampli, longe pedicellati, octospori. Sporidia stellata, 4-5-locularia, oculis radiantibus, atra.

1. **Triospora Cookei** Sacc. in litt. *Corynelia tripos* Cooke in Greville VIII, pag. 31, Winter Ueber die Gatt. *Corynelia* pag. 122, fig. 1-3. — Peritheciis lageniformibus, coriaceis atris, nitidis, in collum elongatum, cylindricum, poro pertusum, demum apice dilatatum desinentibus, rarius in acervulos rotundatos, plerumque imo series elongatas, usque 20 mm. longas, lineares formantibus; ascis amplis, ovatis, sursum obtusis, longe pedicellatis, 50-70 \approx 26-35 (p. sp.) octosporis; sporidiis 4-rarissime 5-radiatis, processibus conicis, basibus coalitis constantibus, 21-23 μ . diam., fuscis; spermatiis 4,5 \approx 1,5-2,

Hab. ad Podocarpi elongatæ folia viva in Germania et Britannia.

Fam. 1. Hypocreaceæ DE NOT.

Sect. 1. Hyalosporæ Sacc.

NECTRIELLA Sacc. Syll. II, p. 448.

- *17. **Nectriella vulpina** (Cooke) Berl. et Vogl. *Peziza vulpina* Cooke 7155
Diatonectria vulpina Cooke in Grev. XII, p. 83. — Sparsa, aurantio-fusca; peritheciis globosis, demum depressis et cupuliformibus, levibus, glabris, vix papillatis 0,3-5 mm.; ascis clavatis; sporidiis hyalinis, continuis, 8 \approx 2,5.

Hab. in frustulis ligneis, New Jersey Amer. bor. (J. B. ELLIS). 7156

- *22. **Nectriella Helenæ** Sacc. et Roum. in Rev. Myc. 1883, tab. 41, fig. 20. — Peritheciis inter fibras caulis gregariis, superficialibus, globosis vel conoideis dein subcollabascentibus, pallide roseis, hyphulis albis cinctis, $\frac{1}{1}$ mm. diam.; ascis cylindricis, paraphysatis, 90-100 \approx 6-7, octosporis, breve stipitatis; sporidiis oblique 1-sti-

chis, ellipsoideo-oblongis, 10-12 \approx 5-6, utrinque obtusiusculis, hyalinis.

Hab. in caule putri Brassicæ in Gallia. — *Nectriella furellæ* similis videtur, sed sporidia in nostra sunt duplo majora.

ELEUTHEROMYCES Fuck. — Sacc. Syll. II, p. 455.

1. **Eleutheromyces longisporus** Phill. et Plowr. in Grevillea XIII, p. 78. 7157

— Peritheciis gregariis, superficialibus, elongatis, pallide luteis, 450-500 μ . latis, 200 μ . longis, basi inflatis; ostioliis acute-terminatis; ascis clavato-elongatis vel subfusiformibus, 130-150 \approx 20-25, plerumque 4-sporis; sporidiis hyalinis, elongato-fusoideis, acutis, uniseptatis, utrinque ciliatis, 50-60 \approx 5-8.

Hab. in reliquiis Myxogastri, Holt House Woods, King's Lynn Britannicæ. — «An novum genus?».

CLEISTOSOMA Hark. in Jour. of Myc. 1885, I, pag. 30 (Etym. *cleistos* clausus et *soma* corpus). — Perithecia orbicularia, membranacea. Asci ex filamentis ramosis orientes, globosi, evanescentes. Sporidia hemisphærica, echinulata.

1. **Cleistosoma purpureum** Hark. in Journ. of Myc. 1885, p. 30. — 7158

Peritheciis purpureo-nigris, tenuissimis in sporodochiis *Thecospora bifida* orientibus et ea purpuraceo colorantibus, mox dehiscens; ascis globulosis, hyalinis, 8-sporis, 9-12 μ . diam.; sporidiis purpureis, hemisphæricis, longe echinulatis, 3-4 μ . latis.

Hab. in foliis putridis Eucalypti Globuli, S. Francisco Californicæ. — Status ascophorus verisimiliter *Thecospora bifida*.

BYSSONECTRIA Karst. — Sacc. Syll. II, p. 456.

*2. **Byssonectria rosella** Cooke et Hark. in Grevillea XII, p. 101. 7159

— Tenuis, effusa, rosella; hyphis repentibus, intertextis; peritheciis minutis, inspersis, obscurioribus (incompletis); conidiis fusarioideis lunatis, utrinque acutis, quinquesepatis, plerumque nodulosis hyalinis immixtis, 40 \approx 5-6.

Hab. in herbis emortuis in California (HARKNESS).

Sect. 2. Phæosporæ Sacc.

SPHÆRODERMA Fuck. — Sacc. Syll. II, p. 459.

*2. **Sphæroderma nectrioides** March. Champ. Copr. pag. 25, tab. I, 7160

f. 9-11. — Peritheciis globoso-ovoideis, contextu necfriaceo, molli,

subdiaphanis, aurantiis, sparsa v. subaggregatis, ostiolo brevi, obtuso, 200 μ . diam. metientibus; ascis numerosis, breviter stipitatis, clavatis, apice late rotundatis, octosporis, 75-80 \approx 25-30 μ . apophysatis; sporidiis primitus hyalinis, intus granulosis, denique atro-olivaceis, limoniformibus, utrinque truncatulis, 18-24 \approx 9-12.

Hab. in stromate *Xylariae Tulasnei*, Boeykr prope Hasselt in Belgio. — A *Sphaer. episphaerio* ostioli fabrica, ascorum magnitudine et ascis persistentibus differt, a *Sph. aculeato* vero peritheciis glabris, sporidiis majoribus distinguendum.

MELANOSPORA Corda. — Sacc. Syll. II, p. 461.

- *3. **Melanospora ornata** Zukal Ueb. ein neue Pilze Myx. Bakt. p. 10, 7161 tab. XV, fig. 2. — Peritheciis sparsis, superficialibus, globosis, apice ostiolo, setis luteis cincto, praeditis, 180-200 μ . diam.; ascis crasse saccatis, octosporis, mox evanidis, sessilibus 40 \approx 30; sporidiis, ellipticis, utrinque obtuse acuminatis, 14-15 \approx 10-11, brunneis, episporio crasso, reticulato praeditis.

Hab. in *Polyporo zonato* prope Wien Austriae. — «*M. lagenariae* propinqua, a qua ostiolo setoso, sporidiis reticulatis distinguitur».

- *9. **Melanospora Solani** Zukal Ueb. ein. neue Pilze, Myc. Bakt. 10. — 7162 Peritheciis gregariis, superficialibus, flaveolis, 160-200 μ . altis, basi hyphis parvis, radiantibus cinctis; ostiolo in collum cylindricum, perithecio duplo longius attenuato, 30-35 μ . lato, saepius spirali-ter incurvato, apice non ciliatis, sed undique vix lanosulis; ascis octosporis, late clavatis, breviter stipitatis, mox evanidis, 30 \approx 25; sporidiis 2-3-stichis, breviter cylindraceis vel fere cuboideis, brunneis, exosporio levi donatis, 5-6 \approx 3-4.

Hab. in tuberibus *Solani* tuberosi ad colenda *Chetomia* adhibitibus Wien Austriae.

- *10. **Melanospora sphaerodermoides** Grove New Not. Fungi pag. 4. 7163 n. 60, tab. 256, fig. 4. — Peritheciis liberis, sparsis, fere levibus, pallide luteo-fuscis, dein fuscis, semipellucidis, rotundatis vel ovatis, in rostrum breve, pilis longis, subhyalinis, continuis, apice fimbriatum productis; ascis clavatis, stipitatis, maxime diffluentibus, 8-sporis, 80-90 \approx 30; sporidiis superne visis late fusoideis, e latere oblique ovoideo-oblongis, curvatis, gutta magna instructis, hyalinis, dein olivaceis, subopacis, 30-34 \approx 15-17.

Hab. ad culmos *Heraclaei* apud Bradnok's Marsh (Warwekshire) Brit. — Peritheciis contextus e cellulis magnis hexagonis

constat. Huic socium *Sphaeronema*, *S. vitreo* subsimile, sporulis oblongis, hyalinis, $6-8 \approx 2\frac{1}{2}$. Quoad perithecium, species hæc *M. Zobelii*; quoad locum natalem, ascos, sporidia *Sphaerodermati theleboidi* magis appropinquat.

- * 11. **Melanospora stysanophora** Matt. in Giorn. Bot. It. 1886, p. 121, 7164 tab. VIII et IX, fig. 1-20. — Peritheciis rufo-brunneis, sphaeroidis, $\frac{1}{4}$ mm. diam., in collum breve, apice penicillatum, pertusum desinentibus; ascis ovoideo-elongatis, demum dilabentibus, octosporis; sporidiis ovoideis, utrinque breve acuminatis, $9 \approx 6$, flaveolis.

Hab. in epispermate Castaneæ vescæ, Torino It. bor., socio *Echinobotryo atro*. — Status conidicus *Stysanus Stemonites*, deutericonidicus *Acladii* forma.

- * 12. **Melanospora Gibelliana** Matt. in Giorn. Bot. It. 1886, p. 141, t. IX, 7165 fig. 21-39. — Peritheciis ovoideis, striguloso-pubescentibus, subiculo tomentoso insidentibus, flaveolis rostratis, rostro sursum penicillato; ascis ellipsoideis, breviter noduloso-pedicellatis, octosporis; sporidiis ovoideis, utrinque acuminatis, $24-25 \approx 15$, fuligineis.

Hab. in epispermate Castaneæ vescæ, Torino Ital. bor.

Sect. 3. Hyalodidymæ Sacc.

HYPOMYCES Fr. — Sacc. Syll. II, p. 466.

- * 1. **Hypomyces spadiceus** Fries in Herb. Berk. Cooke in Grev. XII, 7166 p. 80. — Tenuis, effusus, spadiceus; peritheciis parvulis, $150-200 \mu$. diam., congestis, semiimmersis, ostiolo papillato, concolori; ascis cylindræis; sporidiis arcte lanceolatis, uniseptatis, hyalinis, $16-20 \approx 3-3,5$.

Hab. in Agaricis (?) in Suecia (E. FRIES).

- * 23. **Hypomyces flavescens** (Schw.) Cooke in Grevillea XII, p. 80. 7167 — Peritheciis gregariis, distinctis, globoso-ovatis, papillatis, albidis, villo secedente tectis, subiculo lacteo, latissimo, pubescente insidentibus; ascis cylindræis; sporidiis arcte ellipticis, hyalinis, immaturis visis.

Hab. in hymenio resupinato Polypori, Bethlehem in America boreali.

- * 24. **Hypomyces apiosporus** Cooke in Grev. XII, p. 80. — Effusus, 7168 pallidus, tenuis; peritheciis semiimmersis, leniter papillatis (in sicco melleis), ostioliis obscurioribus; ascis cylindræis, octosporis; sporidiis lanceolatis, supra apiculatis, infra rotundatis, totis asperulis, continuis (apiculo excepto), flavidis, $18 \approx 6,5$.

Hab. in *Clavaria pistillari* (?) New York Amer. bor.

*30. **Hypomyces ater** Fr. Syst. myc. III, Cooke Grev. XII, pag. 80. 7169

— Irregulariter effusus, sæpe totum fungum occupans, nigrum; peritheciis semiimmersis, ostiolo conico, concolore præditis; ascis cylindricis; sporidiis lanceolatis, utrinque acutis atque sæpe apiculatis, continuis, hyalinis, 30-35 \approx 5-6.

Hab. in Agarico non determinato, Carlisle Britannicæ (CARLYLE).

*31. **Hypomyces xylophilus** Peck in Torr. Bot. Club. 1884, p. 28. — 7170

Subiculo effuso, albido; peritheciis numerosis, stipatis, parvis, subflavidis, ostiolo obtuso; ascis cylindræcis, 85-110 \approx 6-7; sporidiis simplicibus, monostichis, subfusiformibus, 15-17 \approx 5-6.

Hab. in ligno putri, Ohio Amer. bor.

33. **Hypomyces tomentosus** Fr. Sacc. Syll. II, p. 475, Cooke in Grev. 4643

XII, p. 80. — Asci cylindræci; sporidia lanceolata, utrinque mucronulata, uniseptata, hyalina, 14-16 \approx 3.

35. **Hypomyces Tegillum** Berk. et Curt. Sacc. Syll. II, p. 475, Cooke 4645

in Grev. XII, p. 80. — Asci cylindræci; sporidia arcte lanceolata, uniseptata, hyalina, 14-16 \approx 3.

*40. **Hypomyces? pannosus** (Schw.) Cooke in Grevillea XII, p. 80, 4162

Sph. pannosus Schw. Car. n. 172. — Sacc. Syll. II, pag. 376. — Late effusus, albidus, pannosus, tenuis, margine fimbriato-bysino; perithecia semiimmersa, pallida, ostiolis punctiformibus, fuscis; asci cylindræci; sporidia immatura.

NECTRIA Er. — Sacc. Syll. II, p. 479.

*1. **Nectria Balansæ** Speg. Fung. Guar. Pug. I, n. 233. — Acervu- 7171

lis primo tectis, dein erumpentibus, epidermide laciniatim disrupta cinctis, mediocribus, 1-2 mm. diam., e convexulo-applanatis, tenuibus, 0,5 mm. crassis, rubro-croceis vel coccineo-aurantiis, pulvere vel squamulis concoloribus vel vix obscurioribus adpersis, peritheciis minusculis, vix apice liberis compositis, e stromate per corticem lignumque serpente pallide croceo exsurgentibus; in pulvinulis stromatis immersis non vel vix prominulis, e globoso ovoideis, 200-250 μ . diam., tenuibus membranaceis, contextu indistincto, fulvello, ostiolo vix mammillato-prominulo, subnigricante; ascis cylindræceo-clavatis, 110-120 \approx 15-16, non vel vix pedicellatis, aparaphysatis, octosporis; sporidiis hyalinis, alterne distichis ellipticis vel elliptico-elongatis, 22-30 \approx 8-10, non vel vix inaequalateralibus, utrinque plus minusve acute rotundatis, medio 1-septa-

tis, non constrictis, loculis primo granulosis, dein grosse 1-guttulatis, episporio longitudinaliter tenuissime densiusculeque striato.

Hab. ad corticem arborum dejectarum putrescentium in silvis prope Paraguari Bras.

- *2. **Nectria atrofusca** (Schw.) Ell. et Ev. in Journ. of Myc. 1885, 1227
pag. 140. *Sphaeria atrofusca* Schw. Syn. N. An. n. 1429. Sacc. Syll. II, p. 391. — Perithecia in stroma tuberculiforme, 1½ mm. latum, lignum facile relinquens dense stipata, 24-40, in quoque stromate, minuta, ⅙ mm. diam., depressa, conica, nigra, ostiolo subconico, expolito, sursum radiato-sulcato excepto indeque rugosa; ascis circiter 75 = 16, oblongo-cylindraceutis; sporidia hyalina vel subhyalina, maturitate dilute luteola, oblongo-ellipsoidea vel sæpe una extremitate acutiora, 1-septata, vix constricta, 10-12 = 4,5-5, utrinque obtusa.

- *3. **Nectria Rousseauana** Sacc. et Roum. in Rev. Myc. 1883, t. 41, 7172
fig. 19. — Peritheciis in cæspitulos discoideos, 2 mm. latos collectis, stromate flavido suffultis, globoso-depressis, ⅓-½ mm. diam., levibus, rubescentibus, dein fusco-lateritiis, collabascendo umbilicato-cupulatis, ostiolo brevi, obscuriore; ascis... jam resorptis; sporidiis tereti-fusoideis, utrinque obtusiusculis, medio 1-septatis, vix constrictis, 20-24 = 5,5-6, hyalinis.

Hab. in caule putri Brassicæ oleraceæ in Belgio. — A *N. punicea*, cui affinis, sporidiis longioribus matriceque mox dignoscitur.

- *10. **Nectria hypocreoides** Berk. et Cooke in Grevillea XII, p. 81. 7173
— Cæspitosa, erumpens, pallida; peritheciis subglobosis, mox confluentibus, 25 mm. diam. in stroma tuberculoide densissime congestis, furfure flavo-pallescens conspersis; ostiolis nudis, obscurioribus; ascis cylindraceutis, octosporis; sporidiis ellipticis, hyalinis, endochromate bipartito, nec vere uniseptatis, 12 = 4.

Hab. in corticibus, Bombay in Africa (H. J. CARTER).

- *11. **Nectria collabens** Berk. et Cooke in Grev. XII, p. 81. — Cæspitosa, erumpens, mellina; peritheciis in stroma tuberculoide, congestis, subglobosis dein collabascens difformibusque, glabris, tenuissimis, 2 mm. diam.; ascis cylindraceutis, octosporis; sporidiis late ellipticis, utrinque attenuatis, loculis subconicis, uniseptatis, hyalinis, magnitudine valde variabilibus, 12-14, rarius 18 = 6. 7174

Hab. in corticibus, Bombay in Africa (H. J. CARTER).

- *12. **Nectria alutacea** Berk. et Cooke in Grevillea XII, pag. 81. — 7175
Cæspitosa, erumpens, alutacea v. incarnata; peritheciis in stroma el-

lipsoideum vel elongatum congestis, subglobosis, papillatis, levibus, glabris, 0,25 mm. diam., translucetibus; ascis clavatis, octosporis; sporidiis biseriatis, ellipticis, uniseptatis, hyalinis, 10-12 \approx 3.

Hab. in corticibus, Neilgherries in India (E. S. BERKELEY).

* 15. **Nectria paraguayensis** Speg. Fung. Guar. Pug. I, n. 238. — 7176

Acervulis hemisphærico-pulvinatis, superne depressulis, inferne leniter coarctatis, 1-2 mm. diam. 0,5 mm. crass., compactis, sordide lateritiis, obsolete minuteque fusco-punctulatis, vix granulosis, glabris, intus gilvis; peritheciis elliptico-obovatis, in acervulorum stromate peripherice immersis, vix prominulis, disco libero applanatulo, medio ostiolo minute papillulato, fusco ornatis, 150 μ . diam., 200 μ . altis, carnosulis, contextu subindistincto, vivide fulvo-melleo, ascis cylindræo-subclavatis, mox diffluentibus, octosporis; sporidiis ellipticis vel elliptico-elongatis, 14-18 \approx 5-7, primo 2-4-guttatis dein medio 1-septatis, constrictis, hyalinis, episporio longitudinaliter striato, loculis 1-2-guttulatis.

Hab. ad corticem ramorum putrescentium in dumetis, Cerro Hu Bras. — Species primo obtutu pro *N. vulgari* facillime sumenda sed satis ab illa abhorrens.

* 16. **Nectria guarapiensis** Speg. Fungi Guar. Pug. I, n. 235. — 7177

Stromatibus cortice innatis, latissime ac plus minusve profunde serpentibus, sordide e roseo lateritiis; peritheciis in stromatis vel matricis mutatae superficie densissime gregariis, acervulos plus minusve pulvinatos, 1-3 mm. diam., 0,5 mm. crass., rugoso-rimulosos, discretos vel confluentes vel plagulas effusas, scruposo-undulatas, 5-25 mm. diam., efficientibus, udis, globosis vel globoso-depressis, 300-350 μ . diam., pallide fulvis, glabris, levibus, siccis cupulato-collapsis, rugulosis, membranæo-carnosulis, contextu percrasse parenchymatico-celluloso, cellulis 15 μ . diam., fulvo-lateritio, ostiolo minute papillato, pallescente, subfimbriatulo, prosenchymatico-subhyalino donatis; ascis clavulatis, antice truncato-rotundatis, postice breviter crasseque attenuato-stipitatis, 55-65 \approx 10-14, aparyphysatis, octosporis; sporidiis distichis vel submonostichis, ellipticis vel obovatis, utrinque late rotundatis, 14 \approx 7, medio 1-septatis, non vel vix constrictis, hyalinis, levibus, loculis 1-guttulatis vel granulosis, subæqualibus.

Hab. ad truncorum cortices putrescentes in silvis prope Guarapi Bras.

* 26. **Nectria infusaria** Cooke et Hark. in Grevillea XII, p. 101. — 7178

Cæspitosa, erumpens, pallide rubra; peritheciis paucis, ovalibus,

ceraceo-mollibus subconfluentibus, levibus, glabris, 5-10 in stromate; ascis cylindræis octosporis; sporidiis uniseriatis ellipticis, obtusis, uniseptatis, nec constrictis, hyalinis demum pallidis, 10 \approx 4,5. — Status conidicus: **Fusarium Acaciæ**: conidiis plerumque consociatis vel in pustulis præcedentibus, fusarioideis curvulis, utrinque acutis, triseptatis, gracilibus, hyalinis, 30-40 \approx 2,5; stromate pulvinato, rubro-pallescente.

Hab. in ramis Acaciæ, in California.

- *27. **Nectria ferruginea** Cooke in Grevillea XIII, p. 8. — Erumpens, 7179
 cæspitosa; peritheciis ceraceis, subglobosis, atro-fuscis, ob pressionem difformibus, primo pulvere ferrugineo tectis, demum nudis, ostiolo pertuso; ascis clavatis, octosporis; sporidiis fusiformibus, uniseptatis, hyalinis, 25 \approx 6.

Hab. in foliis vivis, bracteis etc. *Stypheliæ* (verisimiliter *S. viridifloræ*), Omeo Australiæ.

- *44. **Nectria Epichloe** Speg. Fungi Guar. Pug. I, n. 240. — Peritheciis matrice sæpius infuscata (macula effusa, brunnea, non determinata) insidentibus, hypothallo furfuraceo-pruinuloso, candido donatis, densissime subcrustaceo-aggregatis, pallide aurantiacis vel fulvo-melleis, siccis subcupulato-collapsis, ruga transversa prominula percursis, udis globosis, 80-120 μ . d., glabris, levibus, carnosulis, contextu minutissime ac indistincte parenchymatico-celluloso, fulvello; ascis fusoideo vel cylindræo-clavatis, apice truncatis crassiusculeque tunicatis, deorsum modice attenuato-stipitatis, 50-55 \approx 7-8, paraphysibus paucis, filiformibus simplicibus obvallatis, octosporis; sporidiis ellipticis v. elliptico-ovoideis, utrinque acute rotundatis, 9-11 \approx 3-4, primo continuis, dein medio 1-septatis, non constrictis, oculis non v. guttulatis, hyalinis. 7180

Hab. ad folia viva *Andropogonis* speciei cujusdam in pratis prope Guarapi Bras. — Species pulcherrima distinctissima, habitu *Epichloem typhinam* perfecte æmulans, characteribus fructificationis tamen mox distinguenda, facile in novo genere constituenda.

- *45. **Nectria xanthostigma** Berk. et Cooke in Grevillea XII, p. 83. 7181
 — Sparsa, superficialis, flavida; peritheciis levibus, glabris subglobosis, 2 mm. diam., leniter papillatis; ascis clavatis, octosporis; sporidiis biseriatis, arcte ellipticis, utrinque rotundatis, uniseptatis, hyalinis, 10 \approx 3.

Hab. in caulibus herbaceis, Neilgherries in India (E. S. BERKELEY).

- *47. **Nectria Umbellulariæ** Plow. et Harkn. New Calif. Fungi p. 9. 7185
 — Peritheciis superficialibus, sparsis, 200-230 μ . diam., globosis, subhyalinis v. roseis, hyphis mycelicis parvis externe cinctis; ostioli obtusis; ascis clavatis, 50 \approx 10-15; sporidiis hyalinis, ovoideis, uniseptatis, 10-12 \approx 5-8.
Hab. in Umbellularia californica in California.
- *48. **Nectria depallens** Cooke et Harkn. in Grevillea XIII, p. 82. — 7186
 Sparsa gregariave, superficialis, testaceo-rubra, depallens; peritheciis subglobosis, glabris, nudis, opacis, $\frac{1}{4}$ - $\frac{1}{5}$ mm. d.; ascis clavatis, octosporis; sporidiis lanceolatis, utrinque subacutis, uniseptatis, nec constrictis, hyalinis, 22-24 \approx 4-5.
Hab. in caulibus Lupini in California (HARKNESS).
- *51. **Nectria Galii** Plowr. et Hark. New Californ. Fungi pag. 9. — 7184
 Peritheciis sparsis, immersis, demum erumpentibus, obtusis, pallide rubris; ascis cylindraceutis, delicatis, 60 \approx 5-8, octosporis; sporidiis monostichis, pallide flavis, oblongo-ovoides, utrinque acutis, 10 \approx 5.
Hab. in Galio trifolio in California. — Sporidia demum uniseptata?
- *52. **Nectria conigena** Peck in Torr. Bot. Club. — Minuta, membranacea, levis, aurantio-lutea, siccitate collapsa; peritheciis basi setis radiantibus, parvis præditis, ostiolo papilliformi, minuto; ascis circiter 50 \approx 7; sporidiis monostichis vel sursum subdistichis, acute ellipsoideis, binucleatis, demum 1-septatis (?), 7-8 \approx 3-3,5. 7185
Hab. in conis delapsis Magnoliæ glaucæ, Newfield Amer. bor. — Differt a *N. vulpina* peritheciis minoribus pallidioribusque et sporidiis acutioribus nec non matrice.
- *56. **Nectria Dorcas** (B. et Br.) Cooke in Grev. XII, p. 82, *Peziza* 7186
Dorcas B. et Br. Ceylon Fungi 944. — Superficialis, sparsa, globosa, demum collapsa et cupuliformis; peritheciis extus cervino-tomentosis, ostiolo fusco; sporidiis subellipticis, medio constrictis, biseriatis, uniseptatis, hyalinis, 12 \approx 4,5.
Hab. in Monocotyledoneis plantis in insula Ceylon.
- *60. **Nectria silacea** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. Ill. 7187
 fung. Slav. n. 925. — Peritheciis gregariis, discretis, superficialibus, globoso-depressis, 300-330 μ . diam., ostiolo vix manifesto, ochraceo-argillaceis, levibus, nitidulis, denique collabascens; ascis tereti-clavulatis, breve stipitatis, apophysatis, octosporis; sporidiis distichis v. oblique monostichis, ellipsoideis v. breve oblongis, 10-14 \approx 2-4, 1-septatis, vix constrictis, biguttatis, hyalinis.

Hab. in ligno corrupto Carpini Betuli prope Vinkovec Slavoniæ. — Species bene distincta.

- *68. **Nectria Passeriniana** Cooke in Grev. XII, p. 81, *Nectria viticola* Pass. in Pirotta Fungi Vit. pag. 45. — Subcæspitosa, erumpens; peritheciis subglobosis, carneis, in stroma pulvinatum con-natis; ascis cylindræis, octosporis; sporidiis ellipticis, uniseptatis, hyalinis, 20 \approx 9. 7188

Hab. in sarmentis Vitis, Parma Ital. bor.

- *69. **Nectria lætifulva** Berk. et Cooke in Grevillea XII, p. 12. — Gregaria sparsave, lætifulva; peritheciis superficialibus, globosis, papillatis, glabris, levibus, 0,2-0,25 mm. diam.; ascis clavatis, octosporis; sporidiis biseriatis, breviter lanceolatis, uniseptatis, hyalinis, 14 \approx 4. 7189

Hab. in corticibus, Neilgherries in India (E. S. BERKELEY).

- *71. **Nectria Coccorum** Speg. Fungi Guar. Pug. I, n. 234. — Peritheciis globosis, minutis, 180-200 μ . diam., levibus, glabris, aurantiacis vel aurantio-roseis, solitariis vel laxe 2-5-aggregatis, stromate tenui vix manifesto, matricem obtegente, concolore semi-immersis, ostiolo minuto, vix fuscidulo et papillulato donatis, carnosulo-submembranaceis, contextu dense parenchymatico flavescenti-aurantio, ad ostiolum fuscescente præditis; ascis cylindræo-clavatis, aparaphysatis, octosporis, mox diffluentibus; sporidiis cylindræo-fusoideis vel elliptico-elongatis, utrinque obtuse acutatis, 22-25 \approx 5, medio uniseptatis, non v. leniter constrictis; loculis crasse 1-guttulatis, hyalinis. An postremo 3-septatis? 7190

Hab. ad Coccus emortuos putrescentes in foliis dejectis putrescentibus laurineæ cujusdam in silvis montanis de Peribebuy Bras.

79. **Nectria episphæria** Fries Sacc. Syll. II, p. 497. *Var. verruculosa* Cooke in Grev. XII, pag. 82. — Peritheciis obtuse verruculosis, vix collabascensibus; ascis sporidiisque ut in typo. 4710

Hab. in peritheciis Cucurbitariæ? confinis, Java Australiæ.

- *81. **Nectria ostiolorum** Berk. et Cooke in Grevillea XIII, p. 8. — Parasitica, sparsa, ochroleuca; peritheciis globosis, minutis, 100-200 μ . diam. leniter furfuraceis, superficialibus, ostiolo pertuso; ascis cylindræo-clavatis, octosporis; sporidiis ellipticis, hyalinis, uniseptatis, 12 \approx 5. 7191

Hab. in Xylariæ rhopaloidis stipitibus in Cuba.

- *91. **Nectria filicina** Cooke et Hark. in Grevillea XII, pag. 101. — Sparsa vel gregaria, aurantia, intra squamulas filicis nidulans; pe- 7192

ritheciis obovatis, levibus, glabris subnitidis, vix papillatis; ascis cylindraccis, octosporis; sporidiis elliptico-cylindricis, utrinque obtusis, hyalinis, $8 \approx 2,5$.

Hab. in stipite filicino in California.

- *96. **Nectria parvispora** Winter in Hedwigia 1886, pag. 33. — Pe- 7193
 ritheciis gregariis seu dense sparsis, superficialibus, subiculo tenuissimo, longe lateque effuso, aureo-fulvo, insidentibus, e basi globosa in ostiolum conoideum attenuatis, haud collabascentibus, aureis, demum obscurioribus, fulvescentibus, glabris, membranaeo-subcarnosis, 230-240 μ . altis, 200 μ . crassis; ascis cylindraccis, deorsum stipitiformiter attenuatis, 8-sporis; sporidiis monostichis, oblongo-subcylindraccis vel subclavatis, utrinque rotundatis, medio uniseptatis, non vel rarum constrictis, cellula inferiori parum angustiori, hyalinis, levibus, $8,5-9,5 \approx 2,5-3$.

Hab. in hymenio Sterei subpileati, St. Thomè Africæ occidentalis.

99. **Nectria chrysocoma** (Cooke et Harkn.) Berl. et Vogl. *Byssonec-* 7194
tria chrysocoma Cooke et Harkn. in Grevillea XII, pag. 101. — Lignicola; stroma fibroso-byssoidium, aureum, effusum; peritheciis minutis, gregariis 0,1-0,15 mm. diam., obovatis, tenuibus, flavido-fuscis, stromate semiimmersis; ascis clavatis, octosporis; sporidiis biseriatis arcte ellipticis, uniseptatis, hyalinis, $10 \approx 2-2,5$.

Hab. in ligno Eucalypti in California.

- *105. **Nectria asperula** Winter in Hedwigia 1886, p. 93. — Peri- 7195
 theciis dense sparsis seu gregariis, superficialibus, e basi globosa conoideis, in ostiolum conicum vel breve cylindricum, dilutius, fere hyalinum, attenuatis, mollibus rugosiusculis, carnosis, helvolis, 260-290 μ . altis (cum ostiolo), 200 μ . diam.; ascis cylindraccis, deorsum parum attenuatis, 8-sporis, $80-90 \approx 5-7$; sporidiis monostichis, oblongo-cylindraccis, parum inæquilateralibus, utrinque rotundatis, deorsum parum attenuatis, medio uniseptatis sed non constrictis, dense verruculosis, hyalinis, $14-16 \approx 4,5$.

Hab. in hymenio Sterei subpileati, St. Thomè Afr. occ.

- *114. **Nectria Mercurialis** Boud. in Rev. Myc. 1885, p. 226, tab. LVI, 7196
 fig. 2. — Peritheciis sparsis, 200-250 μ . latis, ochraceis vel ochraceo-aurantiacis, erumpentibus aut liberis, ovatis vel ovato-conicis, supra parce et minute pilosellis, pilis concoloribus, brevibus, ad basim crassioribus, septatis, $60-70 \approx 5-7$; paraphysibus tenuibus, septatis, intus granulosis, ascos superantibus; ascis cylindrico-fusiformibus, clavatis, octosporis, $70-80 \approx 10$; sporidiis oblongo-fu-

soideis, rectis aut subcurvatis, quadrinucleatis, ad medium septatis, non aut vix constrictis, 16-18 \approx 4-5.

Hab. ad caules exsiccatos *Mercurialis* perennis in umbris, Montmorency Galliæ.

- * 116. **Nectria poliosa** E. et E. in Journ. of Myc. 1886, p. 39. — 7197

Peritheciis sparsis, membranaceis, aurantio-rubris, globoso-ovatis, $\frac{1}{6}$ mm. diam., setis rectis, hyalinis, radiantibus, septatis, glandularibus, circiter diametrum perithecii longitudine æquantibus, ostiolo papilliformi excepto tectis; ascis sessilibus oblongo-cylindraceis, circiter 75 \approx 12; sporidiis distichis, oblongis vel oblongo-subfusoideis, subinæquilateralibus, hyalinis, uniseptatis, septo leniter constrictis, irregulariter nucleatis, 18-22 \approx 7-8; utrinque rotundatis vel subacutis.

Hab. in stromatibus *Diatrypes platystomæ*, Florida Amer. bor. — Setæ primo sunt 7 μ . latæ, apice obtusæ, incrassatæque, demum verum sursum elongantur et attenuantur.

- * 117. **Nectria vagabunda** Speg. Fungi Guar. Pug. I, n. 239. — 7198

Peritheciis epiphyllis, sparsis, solitariis vel 2-5-aggregatis, hypothallo candido furfuraceo- vel velutino-tomentosulo insidentibus basi que vestitis, siccis cupulato-collapsis, udis globulosis, 150-350 μ . diam., ex albo aurantiacis, levibus, glabris vel puberulis tenuissime ceraceo-membranaceis, contextu indistincto; ascis clavatis, antice rotundatis, postice breviter crasseque stipitatis, 50-55 \approx 15, paraphysibus densis, filiformibus, simplicibus, obvallatis, octosporis; sporidiis distichis vel inordinate polystichis, ellipticis, utrinque obtusiusculis, 12 \approx 4,5, medio 1-septatis, constrictis, hyalinis.

Hab. ad folia viva *Bambusaceæ* cujusdam in Pastoreo de Caaguazù Bras. — Species pulchella, mox dignoscenda ac novi generis (*Lasionectria*) facillime typum sistens. — Jodii ope nulla.

- * 119. **Nectria aureola** Winter in Hedwigia 1885, pag. 261. — 7199

Peritheciis gregariis, brevissime globoso-conoideis, undique, præcipue autem in parte superiori pilis brevibus, rigidis, simplicibus, hyalinis, apice rotundatis obsitis, pallide aureolis, diaphanis; ascis oblongo-fusiformibus, stipite brevissimo crassoque præditis, 8-sporis, 47-53 \approx 7; sporidiis fusoideis, utrinque parum attenuatis, anguste rotundatis, medio uniseptatis, non constrictis, hyalinis, 14 \approx 2,5.

Hab. in Mycelio *Meliolæ* parasitans.....

- * 121. **Nectria Eucalypti** Cooke et Harkn. in Grev. XII, pag. 82. — 7200

Sparsa, superficialis, ochracea; peritheciis globosis, demum subde-

pressis, 2 mm. diam., primum pilis papillois, sparsis hyalinis obsitis, mox denudatis; ascis clavatis, octosporis; sporidiis lanceolatis, uniseptatis, nec constrictis, hyalinis, 16-18 \approx 4.

Hab. in cortice ramorum Eucalypti in California (HARKNESS). 4797

136. **Nectria decolorans** Fries Scler. Suec. n. 184, Cooke in Grev. XII, pag. 81. — Ascis cylindrico-clavatis; sporidia octona elliptica, utrinque rotundata-uniseptata, leniter constricta, hyalina, 23-25 \approx 7,5.

* 140. **Nectria rubefaciens** Ellis n. 32 (Sec. cl. Rehm in litt. sed deest in Herbario Saccardiano). 7201

143. **Nectria balsamea** Cooke et Peck. in Grevillea XII, p. 81, Sacc. Syll. p. 511. — Erumpens, cæspitosa, suborbicularis; peritheciis parvulis, levibus, coccineis, papillatis, demum collapsis, in stroma pallidum congestis; ascis cylindraco-clavatis, octosporis; sporidiis fusiformibus, quinqueseptatis, hyalinis, 30 \approx 7,7.

Hab. in cortice Abietis balsameæ in Amer. bor.

145. **Nectria oropensis** Ces. in Rabh. Herb. mycol. n. 524. — Sacc. Syll. II, p. 511. — Subiculum araneosum, albidum, tenuissimum, primo crustam lichenosam induens; perithecia subiculo insidentia, mollia, rosea seu carneola, ovato-conica, puberula, papilla paullisper obscuriori prædita, vix $\frac{1}{2}$ mm. diam.; ascis tunica tenuissima donati, subclavato-cylindracci 40 μ . longi, octospori; sporidia (in statu imperfecto) ovalia, hyalina, continua? 4806

HYPOCREA Fr. — Sacc. Syll. II, p. 520.

* 1. **Hypocrea subrufa** Berk. et Cooke in Grev. XII, p. 79. — Gregaria vel sparsa, superficialis, hemisphærico-depressa, subdiscoidea, rufa 1-2 mm. diam. ostiolis minimis, obscurioribus; ascis cylindraceis; sporidiorum articulis subæqualibus, globosis, hyalinis, 3 μ . d. 7202

Hab. in ramis, Neilgherries in India.

* 4. **Hypocrea splendens** Phillips et Plowr. in Grevillea XIII, p. 79. — Subglobosa, quandoque expansa, lutea v. rubro-aurantia, senescens brunea, hemisphærica, quandoque convexa, 3-6 mm. diam.; peritheciis in parte superiore stromatis nidulantibus, minutis, atris; ascis cylindricis, octosporis, 80-90 \approx 5-6; sporidiis hyalinis in duas partes globosas divisus, nucleatis, $4\frac{1}{2}$ -5 μ . diam. 7203

Hab. in ramis Lauri, Leicestershire Britannæ (Howe).

* 11. **Hypocrea strobilina** Phill. et Plowr. in Grevillea XIII, p. 79. — Stromate discoideo, albido, subtili, 1-1 mm. lat.; peritheciis fla- 7204

veolis; ascis cylindræis, octosporis; sporidiis in duas partes subglobosas, hyalinas, 5-6 = 5-5,5 secedentibus.

Hab. in conis Abietis pectinatae, Hereford et Belmont Britanniae.

- *15. **Hypocrea argillacea** Phill. et Plowr. in Grevillea XIII, p. 79. 7205
— Pulvinata, cretaceo-colorata, subtilis, 1-3 mm. diam.; peritheciis latis, obscurioribus, prominulis, pallide brunneis; ostiolis minutis, prominulis; ascis cylindræis, octosporis, 60-70 = 8; sporidiis in 16 secedentibus, subglobosis, hyalinis, sæpe longioribus quam latis, 4-5 = 4.

Hab. in lignis putrescentibus, Dersingham Britanniae.

- *16. **Hypocrea placentula** Grov. New Not. Fung. p. 5, n. 41, t. 256, 7206
f. 5. — Stromatibus sparsis, tenuibus, discoideis, suborbicularibus, applanatis, matrice facillime separandis, albis, primo obtutu polyporoideis; margine byssaceo, dein nudo 1-3 mm. latis; peritheciis stipatis, minutis, hyalino-pallidis (melleis), rotundatis, fere totis immersis; ostiolis impressis, punctiformibus; ascis cylindricis, 80-90 = 3-4; sporidiorum monostichorum articulis globosis, hyalinis, 2½-3 µ. diam.

Hab. ad basim culmorum Junci effusi apud Olton Reservoir Britanniae. — Adest simul status conidicus stromatibus minus limitatis, candidissimis; hyphis teneris, repentibus, intricatis; conidiis sporidiorum articulis similibus, conglobatis, pulveraceo-adspersis.

- *17. **Hypocrea umbrina** Cooke in Grevillea XII, pag. 78, *Hypocrea* 7207
gelatinosa var. *umbrina* Cesati, Sacc. Syll. II, p. 524. — Convexa sublobata, 1-2 cm. lata, umbrina, leniter rugulosa, ostiolis punctiformibus, obscurioribus ornata; ascis cylindræis; sporidiis in cellulas 16, globosas, hyalinas, 4 µ. diam., dissilentibus.

Hab. in ligno putri in insula Ceylon (CESATI).

- *18. **Hypocrea rugulosa** Berk. et Cooke in Grev. XII, p. 79. — Gre- 7208
garia, superficialis, pulvinata vel hemisphaerica, rotundata, sicco rugulosa, carnosula, fusco-nigrescens, 1-2 mm. diam.; stromatibus laxè adhærentibus, nudis, intus fuscis; ostiolis vix prominulis; ascis cylindræis, circa 0,8 mm. long.; sporidiorum articulis aequalibus, quadrato-globosis, fuliginis, 4-4,2 µ. diam.

Hab. in ligno putri, Neigherries in India. — *Var. major* Cooke stromatibus minus rugulosis, 3-4 mm. diam., articulis sporidiorum majoribus, 5 µ. diam. In cortice arborum ibidem.

- *19. **Hypocrea dacrymycella** Cooke et Plow. in Grev. XII, p. 100. 7209

— Stromatibus gregariis, 3-4 mm. superficialibus pulvinatis, huds tremelloideis, subrufis, demum siccis collabascentibus, ex ostiolis obscurioribus, punctiformibus punctatis; ascis cylindraceutis, sporidiorum articulis æqualibus, 16, subglobosis leniter granulatis, olivaceis, 6-8 \approx 6.

Hab. in Abiete, Brandon Britannicæ (C. B. PLOWRIGHT).

- *20. **Hypocrea flavo-virens** Berk. in Herb. Cooke in Grevillea XII, 7210
p. 100. — Pulvinata, orbicularis, demum centro depressa, 1-3 mm., flavo-virescens, ostiolis punctiformibus, atro-viridibus; ascis cylindraceutis; sporidiorum articulis subglobosis, truncatis, olivaceis.

Hab. in corticibus, Nilgherries in India.

- *24. **Hypocrea viscidula** Phill. et Plowr. in Grevillea XIII, p. 79. 7211
— Stromate primum globoso, superne plano, postea discoideo, dein cupulato, 5-10 mm. crass., margine subtili, revoluta, primum luteo, viscido, nitente, carnosulo, albido, demum luteo, disco peritheciis obscure viridibus punctulato; ascis cylindraceutis, octosporis, 130-150 \approx 10-11; sporidiis olivaceo-viridibus, in duas partes globosas, nucleatas, 6-8 μ . diam. secedentibus.

Hab. in ligno atque cortice Pini silvestris, Brandon Britannicæ.

- *28. **Hypocrea Cesatiana** Cooke in Grevillea XII, p. 79, *Hypocrea* 7212
multiformis Cesati. — Appanata, rubro-fusca, subelliptica vel irregularis, margine flavido; ostiolis vix distinctis; ascis cylindraceutis; sporidiis in cellulas globosas hyalinas, 5 μ . diam. dissilientibus.

Hab. in ligno, Sarawak (CESATI).

- *29. **Hypocrea consimilis** Ell. Nort. Amer. Fungi n. 158 et Cooke 7213
Grev. XII, p. 79. — Stromate erumpente, rufo suborbiculari, prominulo, appanato; peritheciis minutis stromate immersis, inconspicue papillulatis, poro minuto pertusis, contextu parenchymatorufulo; ascis cylindricis, aparaphysatis, sæpe basi coalitis, 60-70 \approx 5-6, 8-sporis; sporidiis oblongo-ellipsoideis, continuis (plasmate bipartito?), hyalinis, 6-7 \approx 3.

Hab. in ramis Azaleæ viscosæ in Amer. bor. — Affinis *H. Richardsoni*.

- *30. **Hypocrea Carteri** Berk. et Curt. in Herb. Cooke in Grevillea 7214
XII, pag. 29. — Effusa, indeterminata, $\frac{1}{4}$ -1 diam. ochracea, undulata, margine tenui; ostiolis punctiformibus, fuscis; peritheciis subglobosis, immersis; ascis subcylindraceutis; sporidiis ellipticis, uniseptatis, hyalinis 15 \approx 5.

Hab. in corticibus, Bombay Africae (H. Z. CARTER).

- *32. **Hypocrea cubispora** E. et Holw. in Journ. of Myc. 1885, p. 4. 7215
 — Stromate tuberculiformi, obconico, subplicato, circiter $1 \approx \frac{3}{4}$ cm., luteo-citrino, superficie ostiolis nigris punctulato; peritheciis periphericis, globosis; ascis cylindraceutis, 8-sporis; sporidiis subcuboideis, olivaceo-brunneis v. brunneo-nigris, binucleatis, 4-6 \approx 3-4, nonnullis obscure uniseptatis.

Hab. in truncis annosis, Jowa Amer. bor.

- *40. **Hypocrea digitata** Ell. et Ev. in Journ. of Myc. 1885, p. 42. — 7216
 Stromate luteolo, digitato, radiante, in lobos copiosos, 2 mm. diam., semicylindraceutos, digitiformes, 5 cm. longos abeunte; peritheciis numerosis, immersis, globosis, minutis, nucleo albo farctis, nigris, ostiolis minutis, leniter prominulis, atris; ascis cylindraceutis, 80-90 μ . longis; sporidiis monostichis vel imbricatis, oblongis vel late ellipticis, hyalinis, 1-septatis, granulosis, leniter curvulis, 20-26 \approx 6-8.

Hab. in ramulis emortuis, Withe mountains in America boreali (S. MINNS).

- *42. **Hypocrea papyracea** Ell. et Holw. in Journ. of Myc. 1886, 7217
 p. 66. — Stromate membranaceo, subtili, separabili, 2-3 cm. crasso, margino ex albo lutescente, substerili; peritheciis superficialibus, obscuris, minutis, 150 μ . diam., crebre in stromate sparsis; ascis gracilibus, circiter 75 \approx 3, p. sp. 60 μ . longa, aparaphysatis; sporidiis fusoides, hyalinis, 1-septatis, 8-10 \approx 2,5-3, facile in duas partes ad septum dissilientibus.

Hab. in parte inferiore trunci vetusti, Decorah Jowa Amer. bor. (HOLWAY).

- *43. **Hypocrea corticola** Ell. et Ev. in Journ. of Myc. 1885, p. 140. 7218
 — Stromate subtili, albo, margine subtiliter fimbriato, floccis continuis, 13 cm. vel amplius longis formato, demum sordide albo, in areas minutas ut *Corticium polygonium* diffracto; peritheciis globosis, pallidis, 75 μ . diam., stromate immersis; ascis clavato-cylindraceutis, 20-22 \approx 3 $\frac{1}{3}$, sessilibus; sporidiis partim distichis, octonis, ovoideis, uniseptatis, facile in articulos globosos, 1 μ . diam., dissilientibus, hyalinis.

Hab. in ligno ramorum emortuorum Magnoliæ glaucæ in Amer. bor. — Adsunt in stromate basidia clavato-cylindrica, sporas subglobosas, 3 μ . diam. gerentia. Verisimiliter stroma est *Corticium*, fungillus vero a genere *Hypomyces* fructificatione abhorret.

- *53. **Hypocrea epimyces** Sacc. et Pat. Tab. An. Fung. fasc. IV, 7219
 pag. 175, fig. 387, *Hypocrea vinosa* Pat. in Rev. Myc. 1881, fasc. 12, pag. 11 (non Cooke Grevillea VIII, 65). — Stromate carnoso,

primum rotundato dein turbinato vel attenuato in stipitem brevem, 1-2 mm. long. attenuato, in discum circularem vel elongatum, 4-8 mm. diam. dilatato, plano aut centro depresso, primum rubro dein subnigro; peritheciis numerosis, nigris, ostioliis leniter prominulis; ascis elongatis, cylindraceutis, octosporis, paraphysibus, sursum clavatis obvallatis, 50 \approx 2; sporidiis ovoideis, uniseptatis, in duas partes globosas, nucleatas, hyalinas, facile dissilentibus, 6 \approx 3.

Hab. in Polyporo nigricante, Poligny, Jura, Gallia.

- *50. **Hypocrea colliculosa** Fr. in Herb. Berk. Cooke in Grev. XII, 7220
p. 79. — Pallida, effusa, planiuscula, tomentosa, 12-25 mm. lata; peritheciis convexis, magnis, 1 mm. diam.; ostioliis papillatis, atris; ascis cylindraceutis; sporidiorum articulis subglobosis, 5 μ . diam., hyalinis.

Hab. in Polyporo in Suecia (E. FRIES).

- *62. **Hypocrea undulata** Berk. et Cooke in Grev. XII, p. 79. — Effusa, 7221
pallide ochracea, subtenuis, undulata, margine pallidiore tomentoso; ostioliis papillatis, numerosis, fusco-atris; ascis cylindraceutis; sporidiis ellipticis, diu continuis, demum uniseptatis, utrinque rotundatis, hyalinis, 17 \approx 5.

Hab. in ligno putri, Neilgherries in India.

- *63. **Hypocrea Fendleri** Berk. et Curt. in Herb. Cooke in Grev. XII, 7222
pag. 80. — Subeffusa, plana, demum atro-fusca, margine obtuso, contextu albo; peritheciis immersis, subglobosis; ascis cylindraceutis, octosporis; sporidiis ellipticis, hyalinis, 5-6 μ . longis.

Hab. in corticibus, Venezuela.

- *64. **Hypocrea Neilgherrensis** Berk. et Curt. — Cooke in Grev. XII, 7223
p. 79. — Tenuis, effusa, 1 cm. lata, convexo-applanata, ochraceo-flavida, centro fusca margine pallidiore, sterili; ostioliis papillatis, fuscis; ascis breviter cylindraceutis, 50 μ . longis, octosporis; sporidiis ovalibus vel subglobosis, continuis, hyalinis, 5-6 μ . longis.

Hab. in corticibus, Neilgherries in India.

- *67. **Hypocrea pallida** Ell. et Ev. in Journ. of Myc. 1886, pag. 65. 7224
— Peritheciis ochraceo-brunneis, subglobosis, 250 μ . diam., mycelio (stromate) parco albo, tomentoso laxo hymenii superficie ac perithecia obtegente immersis; ascis cylindraceutis, 65-75 \approx 4-4 $\frac{1}{2}$, octosporis; sporidiis oblongo-ellipsoideis, bicellularibus, hyalinis, articulis subcuboideis, vel vix globosis, 3 μ . diam., facile secedentibus.

Hab. parasitice in Polyporo caesio putri, Newfield Amer. bor. — Ab *H. polyporoidea*, sporidiis minoribus et crusta stromatica nulla differt.

68. **Hypocrea ochroleuca** B. et Rav. — Sacc. Syll. II, p. 534, Cooke 4901
in Grev. XII, p. 78. — Sporidiorum articuli, 6 μ . diam. hyalini.
71. **Hypocrea armeniaca** B. et C. — Sacc. Syll. II, p. 534, Cooke in 4904
Grev. XII, p. 78. — Sporidiorum articuli globosi, hyalini, 4 μ . d.
72. **Hypocrea polyporoidea** B. et C. — Sacc. Syll. II, p. 534, Cooke 4905
in Grev. XII, pag. 78. — Sporidiorum articuli globosi, hyalini, 4
 μ . diam.
74. **Hypocrea insignis** B. et C. — Sacc. Syll. II, p. 534, Cooke in 4907
Grevillea XII, p. 78. — Sporidiorum articuli subglobosi, hyalini,
3,5 μ . diam.
76. **Hypocrea sulphurea** Schw. — Sacc. Syll. II, pag. 535, Cooke in 4909
Grevillea XII, pag. 78. — Sporidiorum articuli globosi, hyalini,
5 μ . diam.
82. **Hypocrea Stereorum** Schw. — Sacc. Syll. II, p. 536, Cooke in 4915
Grev. XII, p. 78. — Sporidiorum articuli, subglobosi, hyalini.
83. **Hypocrea peltata** Jungh. — Sacc. Syll. II, p. 536, Cooke in Grev. 4916
XII, p. 78. — Articuli sporidiorum globosi, hyalini.

HYPOCREOPSIS Karst. — Sacc. Syll. II, Addenda LXVIII.

- *2. **Hypocreopsis solida** (Schw.) Berl. et Vogl. *Hypocrea solida* 1352
(Schwein.) Cooke in Grevillea XIII, pag. 8, *Hypoxylon solidum*
(Schw.) Berk. — Sacc. Syll. I, p. 358. — Asci clavati octospori;
sporidia disticha, lanceolata, uniseptata, medio constricta hyalina,
pallide fusca, 35 \approx 6-7.

LETENDRÆA Sacc. Syll. II, pag. 538.

1. *Neoskofitzia* Schulz. in *Æst. Bot. Zeitschr.* n. 8, p. 250, (1880) vi- 7225
detur idem genus ac *Letendræa* Sacc. Mich. II, p. 73. — Sporidia
quoque in *Neoskofitzia* demum fuscescunt.

Sect. 5. Phragmosporae Sacc.

CALONECTRIA De Not. — Sacc. Syll. II, p. 540.

- *1. **Calonectria melioloidea** Speg. *Fungi Guar.* Pug. I, n. 246. — Epi- 7225
phylla, mycelio orbiculariter expanso, 2-5 mm. diam., tenui, ara-
chnoideo-velutino, sordide albescente v. albo, ambitu effuso evanes-
cente, ex hyphis gracilibus, 3-4 μ . crass. hyalinis, repentibus, dense
ramoso-intricatis, matrice arete adnatis efformato, centro hyphis
piliformibus, erectis, subcrassiusculis, 300-400 \approx 7-8, concoloribus,
dense septatis, apice obtusis ornato; peritheciis centro laxe aggre-
gatis, siccis contracto-rugulosis, udis globuloso-depressis, 200-250 μ .

diam. subsuccineis, levibus glabris v. hyphis paucis, repentibus v. brevissime erectis donatis, tenui membranaceis, contextu indistincto, e hyalino fulvello; ascis obclavatis, sursum longe attenuatis, apice rotundatis, crasse tunicatis, deorsum subcoarctatis, brevissime noduloseque stipitatis, 105-120 \approx 14-15, paraphysatis, octosporis; sporidiis in ascorum parte infera oblique distichis, fusoido-clavulatis, utrinque obtusiusculis, 30-35 \approx 7, 5-septatis ad septa non constrictis.

Hab. ad folia viva Myrtaceæ cujusdam in silvis prope Guarapi Bras.

- * 15. **Calonectria fulvida** (E. et E.) Berl. et Vogl. *Nectria fulvida* 7227
E. et E. in Journ. of Myc. 1885, pag. 140. — Peritheciis superficialibus, gregariis, subglobosis, minutis, $\frac{1}{6}$ mm. diam., tuberculoso-squamulosis, luteolis, siccitate sursum collapsis, ostiolis latis sed non prominulis; ascis oblongo-cylindraceis, subsessilibus, obtusis, circiter 75 \approx 10-12, paraphysibus indistinctis obvallatis; sporidiis octonis, fusiformibus, hyalinis vel subhyalinis, leniter curvulis, 38-50 \approx 3-3,5, biconoideis, nucleatis, demum circiter 8-septatis.

Hab. in corticibus ramulorum putrescentium Quercus, Newfield Amer. borealis.

- * 16. **Calonectria canadensis** (Ell. et Ev.) Berl. et Vogl. *Nectria canadensis* Ell. et Ev. in Torr. Bot. Club. 1884, p. 74. — Peritheciis cespitosis, ovatis, 330 μ . diam., circiter 500 μ . altis, dense tuberculoso-granulosis, rufulis; ostiolis latis, obtusis, non prominentibus, distincte stellato-rimosis, siccis vix collapsis; ascis evanidis, 75-80 \approx 10-12 p. sp.; sporidiis irregulariter stipatis, hyalinis, oblongis, triseptatis, leniter curvulis, utrinque obtusis, 18-21 \approx 7-9.

Hab. in corticibus Ulmi, Ottawa, Canada Amer. bor. — Status conidicus: **Tubercularia canadensis** Ell. et Ev: sporodochiis 0,5-2 mm. altis, aurantiacis rufo stipitellatis; conidiis oblongis, 5-7 \approx 1,5. Cum statu ascophoro ibidem.

- * 22. **Calonectria inconspicua** Winter in Rev. Myc. 1885. — Mycelio 7228
tenuissimo, maculas minutissimas, oculo nudo non visibiles, albidas, granulatas formante, ex hyphis repentibus, ramosis, septatis, hyalinis, dense intricatis constante; peritheciis superficialibus, aggregatis, e globoso brevissime conicis, pallide-roseis, poro pertusis, vertice pilis brevibus, rigidis, non septatis, simplicibus, hyalinis, apice truncatis, emarginatisque dense obsitis, deorsum hyphis longioribus, repentibus, flexuosis, laxè vestitis; ascis lanceolatis vel

elongato-oblongis, sursum valde, deorsum parum attenuatis, sessilibus, 8-sporis, 32-37 \approx 7; sporidiis oblongo-bacillaribus, utrinque rotundatis, 4-cellularibus, 4-guttulatis, hyalinis, 10-11 \approx 2,5-3.

Hab. ad folia viva plantæ ignotæ in *Meliola* parasitans in Paraguay Amer.

*23. **Calonectria guarapiensis** Speg. Fungi Guaranitici Pug. I, n. 244. 7230

— Peritheciis hypophyllis, densiuscule aggregatis, globulosis, 80-100 μ . d. succineis, pilis brevissimis, simplicibus, 20-30 \approx 2, hyalinis laxissime ornatis, ostiolo vix prominulo, subfuscidulo, subfimbriato donatis, contextu dense subindistincteque parenchymatico-sinuoso, fulvello, in hypothallo arachnoideo-fufurello, radiatim expanso, 2-6 mm. diam., matrici arcte adnato, peripherice candido, centro fulvescente insidentibus; ascis fusoideo-cylindraceutis, antice truncato-rotundatis, postice breviter attenuato-stipitatis, 35-42 \approx 5-7, apapophysatis, octosporis; sporidiis distichis, fusoideis v. cylindraceuto-fusoideis, rectis v. sæpius inæquilateralibus, utrinque obtusatis, 8-10 \approx 2-2,5, medio 1-septatis non constrictis, hyalinis; loculis primo 2-guttulatis, dein 1-septatis non constrictis.

Hab. ad folia viva v. languida Sapindaceæ speciei cujusdam in silvis prope Guarapí Bras. — Cum peritheciis ascophoris adsunt perithecia spermogonica.

*26. **Calonectria diminuta** (Cooke) Berl. et Vogl. *Dialonectria di-* 4743

minuta Cooke in Grev. XII, p. 83, *Nectria diploa* var. *diminuta* B. et C. N. Am. Fungi n. 818, *Nectria diminuta* Sacc. Syll. II, pag. 498. — Sporidia demum triseptata, hyalina, 25-30 \approx 8.

34. **Calonectria leucorrhodina** (Mont.) Speg. — Sacc. Syll. II, p. 548, 4955

var. *minor* Speg. Fungi Guar. Pug. I, n. 246. — Peritheciis laxissime aggregatis, siccis cupulato-collapsis, ulis globoso-lenticularibus, 50-70 μ . d., vix papillulato-ostiolatis, dilute aurantiacis v. roseis, glabris, levibus v. vix pruinulosis, tenuissime membranaceis, contextu densissime carnosulo-indistincto, subhyalino, hypothallo furfuraceo v. arachnoideo in *Meliolarum* subiculo parasitice insidentibus; ascis fusoideo-subelavatis, antice obtuse rotundatis, postice breve crassequae stipitatis, 40 \approx 7, apapophysatis, octosporis; sporidiis oblique distichis, subfusoideis, 11-12 \approx 3, vel cylindraceuto-clavulatis, utrinque obtusiusculis, medio 1-septatis, leniter constrictis, primo 6-guttulatis dein tenuiter 5-7-septatis, non constrictis.

Hab. ad folia viva Aurantiaceæ cujusdam prope Guarapí Bras.

*50. **Calonectria? guaranítica** Speg. Fungi Guar. Pug. I, n. 247. — 7231

Acervulis epiphyllis, superficialibus, minutis 0,5-1 mm. diam., sub-orbicularibus v. ellipticis, modice pulvinatis, basi coarctatulis, sparsis, in folio irregulariter longitudinaliterque subseriatis, sordide fusco-vel rubescenti-atris, glabris, ruguloso-scrupulosis, peritheciis globulosis, in acervulorum stromate immersis, plus minusve prominulis, globulosis, 300-350 μ . d., non v. vix papillato- v. mammillato-ostiolatis, membranaceo-carnosulis, mollibus, roseo- v. carneo-succineis, contextu fusco-fuligineo v. fulvescente; ascis cylindraceutis, utrinque leniter attenuatis, antice rotundatis, basi breviter stipitatis, 80-85 \approx 12-14; paraphysibus filiformibus, tenuibus tenue obvallatis, octosporis; sporidiis recte distichis, elliptico-elongatis, inæquilateralibus vel allantoideis, utrinque obtuse rotundatis, 25-28 \approx 6-6,5, 3-septatis, ad septa non constrictis, oculis guttulatis, hyalinis.

Hab. ad folia viva Bambusa eæ cujusdam in uliginosis silvæ Naranjo Bras. — Species prædistincta a *Nectriaceis* nonnihil recedens et generi *Calonectriæ* per dubie adscripta. An melius *Broomella*?

PARANECTRIA Sacc. Syll. II, p. 552.

- *1. *Paranectria parasitica* Winter Ex. Pilze in Flora 1884, p. 7. — 7232
Peritheciis superficialibus, gregariis, globosis, astomis (ut videtur) minutissimis, 120-140 μ . diam., albis, pilis sublongis, hyalinis, sæpe crispatis, undique (parte superiore excepta) obsitis; ascis oblongis, in stipitem brevem attenuatis, 8-sporis, 44-52 \approx 12-14; sporidiis inordinatis, oblongis, utrinque attenuatis acuminatisque, seta hyalina sporidium subæquante præditis, inæquilateralibus sæpeque curvatis, triseptatis, hyalinis, 16-17,5 \approx 5-6.

Hab. in foliis et ramulis junioribus *Osyridis compressæ* in Promontorio Bonæ Spei Afr. austr.

- *2. *Paranectria? albo-lanata* Speg. Fungi Guar. Pug. I, n. 248. — 7233
Acervulis amphigenis, lineari-ellipticis, minutis, 0,5-1,5 mm. long., modice pulvinatis, basi non coarctatis, dilutissime e carneo-ferrugineis v. subrubiginosis, sæpius macula pallescente v. fuscescente, plus minusve effusa, indeterminata insidentibus, granuloso-papillulosis, superne villo densiusculo, candido, e pilis erectis, rectis v. undulatis, longiusculis, tenuibus, 200-450 \approx 2,5, hyalinis, parce septatis, simplicibus composito vestitis, peritheciis in acervulorum ambitu constipatis, monostichis, prominulis, villo absconditis, globulosis, 150-200 μ . diam., glabris, levibus, ostiolo vix manifesto, impresso pertusis, subhyalinis v. pallescenti-ceraceis, tenui-membranaceis, contextu delicatis-

simo, parum distincto, hyalino; ascis cylindræis v. cylindræo-subclavulatis, antice obtuse rotundatis crasseque tunicatis, luce refracta 1-foveolatis, postice leniter attenuatis basi que in pedicellum brevissimum, crassiusculum abrupte productis, 75-80 \approx 18-20, apophysatis, octosporis; sporidiis oblique distichis, ellipticis v. fusoido-ellipticis, 28-32 \approx 10-12, triseptatis, ad septa leniter constrictis, utrinque appendice cylindræa, apice sæpius rotundato-incrassatula (an loculis extimis?), recta, 5-7 \approx 1,5-2 ornatis, rectis v. leniter inæquilateralibus, hyalinis.

Hab. ad folia viva *Bambusaceæ* cujusdam in silvis uliginosis prope Perybebuy Bras. — Species mox dignoscenda, pulchella, a genere nonnihil recedens sporidiis non sigmoideis.

BROOMELLA Sacc. Syll. II, p. 557.

- * 1. **Broomella Munckii** Speg. Fungi Guar. Pug. I, n. 249. — Macu- 7231
lis nullis v. epiphyllis, parum manifestis, minutis, 1-2 mm. diam., cinerescenti-arescentibus, subdeterminatis, areola plus minusve effusa, obscuriore cinctis; stromatibus hypophyllis, superficialibus, densiuscule sparsis, orbicularibus, minutis, 0,5-2 mm. diam., pulvinato-applanatis v. lenticularibus, margine obtuse rotundatis, basi non v. vix coarctatis, matrici arcte adnatis, minutissime furfuraceo-squarrulosis, laxissime papillulosis, obsolete nigropunctatis, extus intusque cinerescentibus vel fusciscenti-griseis; peritheciis stromate immersis, globoso-obovatis, 120-200 μ . diam., dense stipatis, tenuissime membranaceis, fuscidulis, vix a stromate distinctis contextu indistincto, albo-farctis, ostiolo mammillato, nigricante, subcarbonaceo, in stromatis superficie prominulo, non vel leniter exerto donatis; ascis e basi peritheci fasciculatim exurgentibus, cylindræis, 85-100 \approx 10, apice obtuse rotundatis, crasse tunicatis, luce refracta 1-foveolatis, basi plus minusve longe attenuato-pedicellatis, paraphysibus parvis, crassiuscule filiformibus obvallatis, octosporis; sporidiis hyalinis, rectis v. oblique monostichis, ellipticis, 13-15 \approx 5-6,5, utrinque obtuse rotundatis, 2-septatis, ad septa non v. vix constrictis, septis a centro remotis, loculis densiuscule guttulatis, medio cæteris duplo longiore, sæpiusque tumidiore.

Hab. ad folia viva *Bignoniæ* speciei cujusdam in dumetis pr. Guarapí Bras. — Species pulcherrima inter *Hypocreaceas* et *Dothideaceas* nutans; primis adscripta facie externa: specimina, quæ adsunt, adhuc immatura, facile hyemali tempore tantum mature-

scientia: ostiola quandoque 2-3-fasciculata: sporidia rarius 20 μ . longitud.

Sect. 4. Dictyosporæ Sacc.

PLEONECTRIA Sacc. Syll. II, p. 559.

*2. **Pleonectria guaranítica** Speg. Fungi Guar. Pug. I, n. 250. — 7235

Acervulis majusculis, 3-15 mm. diam. crasse pulvinatis, 2-5 mm. sparsis v. confluentibus repando v. gyroso-sinuosis, matrice immutata arcte adnato-superficialibus, densissime granulosis, udis carnosulis, siccis duris, extus sordide griseo-lateritiis, intus ligneo-fuscescentibus; peritheciis carnosulo-coriacellis, in pulvinula peripherica densissime constipatis, ad tertium superum vel ultra prominulis, globosis, 300-350 μ . d., glabris, levibus, ostiolo non mammillato, non v. vix acutatulo, sæpius fuscescente donatis, contextu subimperspicuo, densissimo, aurantio-fulvo; ascis cylindraceutis v. cylindraceuto-clavatis, apice truncato-rotundatis, deorsum longe attenuato-pedicellatis, p. sp. 40-55 \approx 8-12, ped. 35-40 \approx 2-3, paraphysibus crassiuscule filiformibus, guttulatis, parcissimis immixtis, octosporis; sporidiis globoso-ellipticis, utrinque obtusissime rotundatis, 8-11 \approx 6-7, primo cribrose guttulatis, dein densissime sed obscure muraliter cellulosis, hyalinis.

Hab. ad cortices truncorum putrescentium in silvis uliginosis prope Guarapí Bras.

*3. **Pleonectria fenestrata** (Berk. et Curt.) Berl. et Vogl. *Nectria* 7236

fenestrata Berk. et Curt. in Herb. et Cooke in Grev. XII, p. 81. — Cæspitosa, cinnabarina, erumpens; peritheciis globosis, levibus, glabris, vix papillatis, in stroma tuberculoideum aggregatis; ascis clavatis, octosporis; sporidiis biserialibus, ellipticis, 5-septatis muriformibusque, hyalinis, 30 \approx 10.

Hab. in corticibus, Canada et in insula Ceylon.

*4. **Pleonectria denigrata** Winter in Torr. Bot. Club. 1883, p. 49. 7237

— Peritheciis cæspitulos densissimos, erumpenti-superficiales, pulvinato-subhemisphæricos, usque 5 mm. diam. metientes formantibus, stromatis pulvinati, intus rufescenti-lutei superficie insidentibus, fere globosis, extus griseis, eleganter nigro-papillatis, demum vertice depressis et umbilicatis, nigrescentibus, 360-470 μ . diam.; ascis cylindraceutis, breviter pedicellatis, 8-sporis, 70 \approx 8-10 (in aqua demum usque 100 μ . elongatis); sporidiis plerumque monostichis, valde difformibus, rotundato-angulatis, 3-5 transverse septatis et

muriformibus, ad septa plus minusve constrictis, pallidissime flavidulis, 10-16 \approx 7-10; paraphysibus filiformibus, longissimis.

Hab. in ramis corticatis Gleditschiæ Triacanthi prope Lexington Amer. bor. (W. A. KELLERMANN).

PLEOGIBBERELLA Sacc. in litt. (Etym. *pleon* et *Gibberella* quasi *Gibberella* dictyospora). — Characteres *Gibberellæ* sed sporidia celluloso-muriformia.

- * 5. **Pleogibberella calamia** (Cooke) Berl. et Vogl. *Gibberella calamia* 7238
Cooke in Grevillea XIII, p. 8. — Peritheciis gregariis, confertis, vertice obtuso, conico, demum subcollabentibus, opacis, violaceo-cœruleis; ascis clavatis, mox diffluentibus; sporidiis nunc ellipsoideis, nunc cylindraceis, medio constrictis, valde irregularibus, muriformi-cellulosis, hyalinis, 25-30 \approx 22, vel 40-50 \approx 20-22.

Hab. in fructibus Calami fasciculati, Vizagapatam in India.

Sect. 6. Scolecosporæ Sacc.

OPHIONECTRIA Sacc. Syll. II, p. 563.

1. **Ophionectria tropicalis** Speg. Fungi Guar. Pug. I, n. 251. — Peri- 7239
theeciis hypophyllis, sparsis, globosis, minutis, 100-180 μ . d., in sicco subsuccineis, ruguloso-contractis, udis globosis, e hyalino opacis, subiculo parcissimo, vix manifesto, tenuissimo, arachnoideo-reticulato insidentibus, glabris, levibus, ostiolo minuto, vix impresso, tenuissime membranaceis, contextu parenchymatico, sinuosulo-anguloso, e hyalino fulvescente; ascis fasciculatim e basi perithecorum exsurgentibus, cylindraceis, non v. vix fusoides, apice late rotundatis, basi attenuatis, 75-80 \approx 9-10, minute brevissimeque stipitatis, aparaphysatis, octosporis; sporidiis acicularibus v. filiformibus, 50 \approx 2,5, 5-10-septatis, utrinque obtusis, in ascis longitudinalibus apice recte fasciculatis, basi tortis.

Hab. ad folia viva Blechni speciei cujusdam, sociâ *Uredineâ* depauperatâ, in silvis prope Mbatobî Bras.

2. **Ophionectria cylindrospora** (Sollm.) Berl. et Vogl. *Nectria cylin-* 7240
drospora Sollm. Bot. Zeit. 1864, p. 265. — Cæspitulis subrotundis vel oblongis, cortice interiore insertis, ex 6-24 peritheciis constantibus, peritheciis subrotundis, vel obovatis, obscure rubris, levibus, indistincte papillatis, tenui-membranaceis; ascis clavatis, octosporis, paraphysibus parvis, simplicibus, hyalinis obvallatis; sporidiis cylindricis, leniter cûrvis, utrinque rotundatis, 8-16-lo-
cularibus; hyalinis, 40-50 \approx 2-2 $\frac{1}{2}$.

Hab. in ramulis siccis Pini silvestris prope Herbartsdorf.

3. **Ophionectria Briardi** Boud. in Rev. Myc. 1885, p. 226, tab. LVI, 7241
fig. 3. — Minuta, sparsa vel subgregaria, superficialis; peritheciis rotundatis aut siccitate turbinatis, 130-350 μ . latis, aureo-puberulis, ostiolo applanato, levi, nigrescente et parum conspicuo; pilis minutissimis, continuis, 20-40 \approx 5-6; ascis cylindricis, octosporis, ad basim vix attenuatis, 90-100 \approx 10-13; paraphysibus tenuibus, filiformibus obvallatis; sporidiis elongatis, ad apices attenuatis, intus granulatis, denique 7-11 septatis et loculis sæpe guttula unica repletis, 45-55 \approx 3-4.

Hab. ad Eutypellas et lignum putridum in silva Carnelle prope Montmorency Galliæ.

4. **Ophionectria coccicola** (Ell. et Ev.) Berl. et Vogl. *Nectria coccicola* E. et E. in Journ. et Myc. 1886, pag. 39. — Peritheciis cæspitosis, membranaceis, circiter $\frac{1}{3}$ mm. diam., $\frac{1}{2}$ mm. altis, flavo-olis, maturitate sordide luteo-brunneis, obovatis, astomis, rugosiusculis, setis parvis, albis, sparsis, minutis vestitis v. demum calvis; ascis clavato-cylindræis, 150-190 \approx 20, paraphysibus crasiusculis, copiosis obvallatis; sporidiis octonis, clavato-cylindræis, multinucleatis, hyalinis, 110-140 \approx 6-7, deorsum attenuatis. 7242

Hab. in larvis Coccorum in cortice vivo Citri aurantii, Florida Amer. bor.

BARYA Fuck. — Sacc. Syll. II, pag. 563.

1. **Barya parasitica** Fuck. Sacc. l. c. — Huc teste Cooke (Cfr. Grevillea XII, p. 101) ducenda sunt *Acrospermum stromaticum* Cooke in Grevillea VIII, pag. 38, *Epichlœ virescens* Quelet in Grevillea VIII, pag. 38, et *Acrospermum virescens* Sacc. Syll. II, p. 808. 5003

MICRONECTRIA Speg. Fungi Guar. Pug. I, n. 252 (Ety. *micro* parvus et *Nectria*). — Perithecia simplicia, epidermide tecta, contextu molli nectriaceo. Asci octospori; sporidia filiformia plus minusve manifeste septata. — Est *Ophionectria* peritheciis tectis, non superficialibus donata.

1. **Micronectria guaranitica** Speg. Fung. Guar. Pug. I, n. 252. — 7243
Maculis nullis; peritheciis sparsis v. hinc inde laxissime aggregatis, rarissime 2-3-cæspitosis, hypodermicis, primo tectis dein erumpenti-prominulis, epidermide laciniatim minute fissa cinctis, globulosis, 150-200 μ . d., fulvo-melleis, glabris, ostiolo vix papillato ac visibili donatis, membranaceo-carnosulis, contextu minutissime pa-

renchymatico, subindistincto, dilute fulvo v. melleo-fuligineo; ascis cylindraceutis, 125-150 \approx 4-4,5, utrinque leniter attenuatis, apice truncatis v. rotundato-truncatis, luce refracta foveolatis, postice brevissime stipitatis, paraphysatis, octosporis; sporidiis filiformibus ascorum longitudine, tenuissimis, 0,6-0,8 crass., plus minusve manifeste septatis, hyalinis.

Hab. ad folia dejecta putrescentia Luheæ divaricatæ in nemorosis prope Guarapî Bras.

CLAVICEPS Tul. — Sacc. Syll. II, p. 564.

- *3. **Claviceps Wilsoni** Cooke in Grevillea XII, pag. 77. — Mycelio 7244 sclerotioideo, cylindrico, subarcuato, atro-purpureo, nigrescente; stromatibus solitariis vel binatis vel ternatis, simplicibus, carnosissimis, albo-flavidis, clavula elongato-clavata, flavo-carnea, e peritheciis laxis, subliberis, prominentibus asperula, peritheciis 0,4 \approx 0,18 mm. diam.; stipite flexuoso, abbreviato, cylindrico, primum albido; ascis angustissimis, linearibus; sporidiis filiformibus, 140 μ . longis.

Hab. in sclerotio Glyceriæ fluitantis in Britannia (J. WILSON).

CORDYCEPS Fr. — Sacc. Syll. II, p. 566.

- *3. **Cordyceps insignis** Cooke et Rav. in Grev. XII, p. 78. — Livido- 7245 purpurea; stipite recto, 3-4 cm. longo, pallido, sulcato, æquali, capitulo subgloboso ovato, ob perithecia leniter asperulo; peritheciis minimis, confertis, ovatis, ostiolo punctiformi, obscuriore; ascis cylindraceutis, longissimis, 600 μ . long.; sporidiis filiformibus, 450, articulis dissilientibus, 12 μ . long.

Hab. in larvis emortuis humo tectis, Seaboard Car. inf. (RAVENEL). — *C. entomorrhizæ* similis sed latior firmiorque. Stipes circiter 4-5 mm. altus, longitudinaliter striatus; capitulum 1½ cm. longum, 1 cm. latum, livido-purpureum.

- *5. **Cordyceps typhulæformis** Berk. et Cooke in Grevillea XII, p. 78. 7246 — Stromate clavato, gracili, carneo-rubro, in stipitem æqualem attenuato, carnosissimo, circa 1,25 cm.; peritheciis subprominulis; ascis cylindraceutis; sporidiis filiformibus.

Hab. in larvis?, Java.

- *6. **Cordyceps Odyneri** Quél. in Bull. Soc. Myc. Franc. 1886, p. 80. 7247 — Stipite gracili, 1-2 cm. longo, pruinoso, griseo, e mycelio floccoso-farinoso, albo oriente; capitulo ovoideo, olivaceo-griseo; peritheciis ovato-conicis, semiliberis, prominentibus, parvis, concoloribus; sporidiis filiformibus, 80 \approx 5, hyalinis.

Hab. in nympha Vesparum sub cortice trunci Betulæ pr. Saint-Prix Galliæ.

42. **Cordyceps sinensis** Berk. — Sacc. Syll. II, p. 577. — Asci cylindracei, apice capitati; sporidia filiformia, in fragmenta dissiliencia. 505
44. **Cordyceps dipterigena** Berk. et Br. — Sacc. Syll. II, p. 577. — Asci lineares, subflexuosi; sporidia filiformia, articuli breves, subquadrati. 505

TORRUBIELLA Boud. in Rev. Myc. 1885, p. 227, t. LVI, fig. IV (Etym. a Rev. J. *Torrubia*). — Perithecia superficialia, sessilia, stromate byssino tenui, membranaceo, nullomodo clavato suffulta. Paraphyses conspicuæ, tenuissimæ, ad apicem incrassatæ. Asci lineares, octospori. Sporidia filiformia, obscure septata et granulosa. Entomogena.

1. **Torrubiella arancida** Boud. in Rev. Myc. 1885, p. 227, tab. LVI, fig. IV. — Entomogena, in aranea quadam lucifuga reperta; peritheciis elongato-conicis, subflexuosis, 0,65-0,70 mm. altis, 0,30-0,35 mm. crassis, levibus ochraceis vel ochraceo-aurantiis, in stromate byssino, albido, tenui, numerosis sed sparsis aut cæspitosis; paraphysibus conspicuis, ascorum longitudine, gracillimis, apice clavula, 3 μ . crassa terminatis; ascis linearibus, longissimis, octosporis, 330-350 \approx 5-6, apice rotundato, non tumescente; sporidiis filiformibus, tenuissimis, ascos longitudine æquantibus aut superantibus «(?)», obscure septatis et granulosis, 300-400 \approx $\frac{1}{2}$ -2. 724

Hab. ad araneam lucifugam sub trunco putrido mortuam, Montmorency Galliæ.

BALANSIA Speg. Fungi Guar. Pug. I, n. 253 (Etym. a cl. botanico *Balansa*). — Stromata stipitato-capitata, extus atra, intus palleſcentia, in matrice fere sclerotiacea, nigrefacta dense gregaria. Perithecia in capitulis stromatis peripherica. Asci cylindracei, paraphysati, octospori. Sporidia filiformia ascorum longitudine, hyalina. — Genus singulare, in spicis graminacearum viventium vigenſ, *Clavicipiti* peraffine, ab eo tamen satis recedens.

1. **Balansia Claviceps** Speg. Fungi Guar. Pugill. I, n. 253. — Spicis ad rachidem reductis; rachidibus incrassatulis, longitudinem normalem superantibus, 15-20 cent. long. 2-4 mm. crass., intus albis, lignoso-fibrosis, duris extus fusco-atris v. atris, levibus, barbulis denudatis ac, spicularum loco, stromata gerentibus; stromatibus hemisphæricis v. globulosis, 1,5-3 mm. diam. stipite plus minusve 724

abbreviato, 0,5-3 mm. long., crassiusculo, 1-1,5 mm. crass. insidentibus, intus albo-fuscescentibus, sublignoso-carnosulis, duriusculis, extus atris, glabris, levibus, vix sub lente valida densissime minuteque granuloso-punctulatis, peritheciis sub cortice in stromatum capitulis periphericis, densissime constipatis e substantia vix distincta, obovatis, 200-220 μ . alt. 120-140 μ . diam., ostiolo perforato, superficiem stromatis vix attingente donatis; ascis cylindraceutis, apice rotundatis, tunica valde incrassata, basi leniter attenuatis, brevissime rotundatis, 150-160 \approx 5-6, aparaphysatis, octosporis, e fundo peritheciorum fasciculatim exsurgentibus; sporidiis filiformibus, fasciculatis, longitudine ascorum, tenuibus, 0,6-0,8 crass., densiuscule ac parum manifeste septatis, hyalinis.

Hab. ad spicas evolutas *Setariæ* v. *Penniseti* speciei cujusdam in dumetis ripariis fluminis Pirayù Bras. — Species pulcherrima habitu fere *Sclerotii clavi*, formam giganteam clavulis ascigeris, confertissimis ornatam simulans; rachide spicarum vix deformata, barbulis amissis, spiculis in capitula stromatica mutatis. Ob perithecia parum a stromatis substantia distincta ad *Dothideaceas* nonnihil vergens.

EPICHLOE Fr. — Sacc. Syll. II, p. 579.

*3. **Epichloe? nigricans** Speg. Fungi Guar. Pug. I, n. 254. — Stro- 7250
matibus partem breviusculam, 5-10 mm. long., sub nodis culmorum infectantibus non v. vix eam tumefacientibus sed nigrificantibus, tenuibus, 250-300 μ . crass., in juventute molliusculis, intus albis in senectute subcrustaceo-fragilibus, intus fuscescentibus, levibus; peritheciis (an loculis?) stromate immersis, densissime constipatis, elliptico-ovatis, basi sæpius truncatis, minutis, 140-150 \approx 50-80, ostiolo perforato, stromatis superficiem vix attingente donatis; ascis cylindraceutis vel subfusoides-cylindraceutis, antice-rotundatis crassissimeque tunicatis, luce refracta bifoveolatis, postice attenuatis ac breviter pedicellatis, p. sp. 90-100 \approx 4-5, ped. 15-20 \approx 1-2, aparaphysatis, octosporis; sporidiis fasciculatis, filiformibus, 70-80 \approx 0,6-0,8, laxè septulatis, rectis, hyalinis.

Hab. ad culmos vivos *Graminaceæ* minoris cujusdam in pratis prope Guarapù Bras. — Species pulchella et facile ad *Dothideaceas* transferenda; ab *E. strangulante* ut videtur, satis recedit. Inter perithecia ascigera adsunt nonnulla spermatiphora, omnia simillima, spermatia fusoides-clavulata, utrinque attenuata, apice truncato-rotundata basi-elongato-acutata, subinæquilateralia, 15-

20 \approx 1-1,5, non v. pluriguttulata, hyalina, in sterigmatibus fusoides, 7-8 \approx 1, utrinque attenuato-truncatis exurgentia.

HYPOCRELLA Sacc. Syll. II, p. 579.

*1. **Hypocrella? guaranítica** Speg. Fungi Guar. Pug. I, n. 256. — 7251

Stromatibus hypophyllis, globosis 1,5-2,5 mm. diam., densiuscule gregariis, rarius confluentibus, superficialibus, minute laxeque papillulatis v. granulosis, glabris, extus fusco-ferrugineis v. fusco-atris, intus albo-fuscescentibus, vivis carnosulis, siccis duris; peritheciis in stromate periphericis, globosis v. ellipticis, 150-180 μ . diam., laxe constipatis parum a substantia stromatica distinctis, ostiolo perforato, stromatis superficiem attingente ac minute papillato-prominulo donatis; ascis cylindraceutis v. subfusoides-cylindraceutis, apice crassissime tunicatis, luce refracta 1-foveolatis, basi breviter crasseque attenuato-pedicellatis, 130-150 \approx 5-7 octosporis aparaphysatis; sporidiis fasciculatis, ascorum longitudine, filiformibus, mox in articula 3-7 \approx 1, utrinque truncata, crasse 2-4-guttulata secedentibus.

Hab. ad folia viva Euphorbiaceæ (Colliguaja spec.) in silvis subvirginis prope Villa-Rica Bras. — Species pulcherrima et ad *Dothideaceas* vergens; stromata in foliis dejectis maturantia sed facillime a matrice secedentia.

GLAZIELLA Berk. — Sacc. Syll. II, p. 581.

5. **Glaziella vesiculosa** Berk. Fungi Bras. in Vedens. Meddel. Nat. Kjobenhavn, 1879-80, p. 751, Sacc. Syll. II, p. 582, Cooke in Grevillea XII, p. 78. — Subglobosa, ochraceo-flavida, vesiculosa, magna, 75-100 mm. diam., glabra hinc illinc rugulosa, contextu carnosus; peritheciis periphericis, immersis, pallidis, immaturis. 5075

Hab. in provincia Rio de Janeiro (A. GLAZIOU).

Fam. 5. **Dothideaceæ** NITS. et FUCH.

Sect. 1. **Hyalosporæ** Sacc.

BAGNISIELLA Speg. — Sacc. Syll. II, p. 589.

*1. **Bagnisiella tessellata** (Lév.) Berl. et Vogl. *Dothidea tessellata* Cooke in Grevillea XIII, pag. 66, *Hormosporia tessellata* Lév. Ann. Sc. Nat. 1863, p. 297. — Conceptaculis gregariis, discretis, erumpentibus, globosis, tessellato-rimosis, macula albida convexa, 7252

demum nigra insidentibus, ostiolis (quando conspicuis) papillatis; ascis pallide viridibus; sporidiis globosis, concatenatis, levibus, hyalinis.

Hab. ad folia Thibaudiaë floribundæ, Nova Granada.

- *2. **Bagnisiella Rhamni** (Mont.) Berl. et Vogl. *Dothidea Rhamni* Mont. 7253
in herb. Berk. Cooke in Grev. XIII, p. 66, *D. clavuligera* B. et Br. in herb. Berk. — Erumpens; stromate discoideo vel elliptico, rugoso-papillato, atro, opaco, 2 mm. diam.; ascis cylindrico-clavatis, octosporis; sporidiis sublanceolatis, continuis, hyalinis, sæpe 2-4-nucleatis, 20-22 \approx 5.

Hab. ad corticem Rhamni, France England.

- *6. **Bagnisiella Cercidis** (Cooke) Berl. et Vcgl. *Dothidea Cercidis* 7254
Cooke in Grev. XIII, p. 66. — Erumpens, orbicularis, hemisphærica, demum centro depressa, atra, opaca, loculis paucis; ascis clavatis; sporidiis biserialibus, elliptico-lanceolatis, continuis, hyalinis, 30 \approx 10.

Hab. in ramis Cercidis canadensis in Carolina Amer. bor.

MAZZANTIA Mont. — Sacc. Syll. II, p. 591.

- *4. **Mazzantia Brunaudiana** Sacc. et Berl. Misc. Myc. II, pag. 23, 7255
tab. X, f. 25. — Stromatibus clypeatis, oblongis, 3 \approx 1,5-2 mm., aterrimis, nitidis, paucilocellatis, loculis globosis, in superficie stromatis subinde leniter prominulis, ostiolis obsoletis; ascis teretibus, stipitatis, 70-80 \approx 10-12, aparaphysatis; sporidiis distichis, oblongis, utrinque rotundatis, 9-10 \approx 4, biguttulatis, hyalinis, strato mucoso initio obvolutis.

Hab. in caule Umbelliferarum, Saintes Gallie (BRUNAUD).
A *Mazz. sepium* stromatibus multo majoribus, sporidiis initio mucosis etc. differt.

SCIRRHIELLA Speg. Fungi Guar. Pug. I, n. 258 (Etym. a *Scirrhia* cui hoc genus affine). — Stroma epidermide tectum, lineare, rimose erumpens, extus atrum, intus subceraceum, fuscum; loculi (an perithecia?) tunica in juventute cum stromatis substantia continua, dein superne carbonacea, atra, continua, inferne membranacea, tenui discreta ac distincta; asci cylindræo-clavati, octospori, paraphysati; sporidia elliptico-clavata inferne subattenuato-curvata, simplicia hyalina. — Genus singulare inter *Dothideaceas* et *Nectriaceas* nutans; sporidiis generi *Apiosporæ* etiam peraffine, ab omnibus tamen satis recedens.

1. **Schirrhella curvispora** Speg. Fungi Guar. Pug. I, n. 258. — 7256
 Stromatibus linearibus, 1-6 mm. long. 0,5-0,7 crass. tectis, subseriatis, rimose erumpentibus, non exertis, extus atris, glabris, rugulosis, intus ceraceo-fuscis, per ætatem sæpe cavis; loculis (peritheciis?) dense constipatis, tunica primo tota cum stromatis substantia continua, dein superne continua, atra, carbonacea, inferne discreta membranacea, tenui, majuscule parenchymatica, olivaceo globoso-depressis, 200-300 μ . d. 150-200 μ . alt., e mutua pressione angulosis, ostiolo minuto, parum perspicuo, stroma perforante, sed non exerto donatis; ascis cylindraceo-clavatis v. toruloso-cylindraceis, antice rotundatis, postice breve crasseque stipitatis, 100-105 \approx 25-28, crasse tunicatis, octosporis, mucro granuloso ac paraphysibus crassis, septulatis, densis, subfluxilibus obvallatis; sporidiis distichis, elliptico-elongatis, sursum rotundatis ac non v. vix acutatis, deorsum leniter attenuatis, rotundato-acutatis, abruptiusculis, e latere incurvatis, 40-42 \approx 10-11, percrasse l-guttulatis, hyalinis.

Hab. ad culmos dejectos putrescentes *Bambusaceæ* cujusdam in silvis prope Carapeguá Bras.

PHYLLACHORA Wits. — Sacc. Syll. II, p. 595.

- * 1. **Phyllachora opaca** Speg. Fungi Guar. Pug. I, n. 270. — 7257
 Maculis nullis vel vix manifestis, pallescentibus; stromatibus plus minusve dense sparsis, irregulariter suborbicularibus, 0,5-2 mm. diam., e lenticulari applanatis, matrice innatis, epiphyllis vel amphigenis, glabris, levibus, vix sub lente validissima obscure punctulatis, atris, opacis, extus atro-carbonaceis, intus fusco-fuligineis, contextu indistincto; loculis densissime constipatis, ex ovato-ellipticis, minutis, 100-150 μ . diam., nucleo albo farctis; ascis fusoido-cylindraceis, antice truncatis, postice breviter crasseque attenuato-stipitatis, 80-85 \approx 6-8, octosporis, aparaphysatis vel vix paraphysibus nonnullis filiformibus, simplicibus obvallatis; sporidiis ellipticis, non vel vix ovoideis, utrinque plus minusve acutiuscule rotundatis, 10 \approx 4-4,5, oblique monostichis, hyalinis.

Hab. ad folia viva *Myrtaceæ* cujusdam in silva subvirginea Caagurazú Bras.

- * 2. **Phyllachora Sinik-Lagaraik** Speg. Fungi Guar. Pug. I, n. 273. 7258
 — Maculis nullis; stromatibus epiphyllis non vel vix ad hypophyllum manifestis, orbicularibus, 300-700 μ . diam., lenticulari vel subconoideo-pulvinatis, glabris, levibus, atris, satis nitentibus, sparsis vel rarius confluentibus, 2-4 mm. diam., carbonaceis, contextu in-

distincto; loculis 1-4 in quoque stromate, gyroso-angulosis, 100-150 μ . diam. nucleo albo faretis; ascis cylindraceo-obclavatis, antice rotundato-truncatis, postice breviter attenuato-pedicellatis, 65-72 \approx 12-13, paraphysibus filiformibus, densis obvallatis, octosporis; sporidiis oblique vel transverse monostichis, ellipticis, utrinque rotundato-subtruncatis, 11-12 \approx 7-8, granuloso-faretis, hyalinis.

Hab. ad folia viva *Myrsines floribundæ* in dumetis prope Guarapí Bras. — Sub nomine *Sinik-lagaraiik* (trad. litt. *pestis nigra*) incolæ barbari omnes morbos foliorum plantarum indicant.

- *3. **Phyllachora pirifera** Speg. Fungi Guar. Pug. I, n. 277. — Ma- 7259
culis nullis; stromatibus sparsis, rarius 2-5-gregariis vel confluentibus, parvulis, 300-500 μ . diam., matrici innatis, epiphyllis vel amphigenis, vix prominulis, atris, glabris, non v. vix nitentibus, pauciloculatis, contextu atro, subcarbonaceo, indistincto; loculis globosis vel e mutua pressione angulosis, 80-120 μ . diam., nucleo albo faretis; ascis cylindraceis, antice rotundatis vel truncato-rotundatis, postice breviter attenuato-pedicellatis, 70-80 \approx 7-12, octosporis, paraphysibus filiformibus, densiusculis obvallatis; sporidiis oblique monostichis vel rarius subdistichis, piriformibus vel sphæroideo-piriformibus, 12-13 \approx 6-8, primo granulosis, dein limpidis, hyalinis.

Hab. ad folia viva *Verbesinæ* cujusdam in dumetis prope Guarapí Bras.

- *4. **Phyllachora pulchra** Speg. Fung. Guar. Pug. I, n. 276. — Ma- 7260
culis nullis vel vix manifestis, pallescenti-fuscescentibus, indeterminatis; stromatibus hypophyllis, hemisphærico-pulvinatis, 500-800 μ . diam., sæpius orbiculariter expansis, sæpe 2-3-confluentibus e brunneo atris, glabris, levibus, matrici innatis, forma conidica imixtis, 3-8-ocularibus, contextu indistincto, extus atro, intus albo; loculis constipatis, sæpe e mutua pressione angulosis, 150-180 μ . diam., nucleo albo faretis; ascis clavatis, antice acutatis, crassiuscule tunicatis, postice longiuscule attenuato-pedicellatis, 75-80 \approx 12-16, paraphysibus paucis, filiformibus obvallatis, octosporis; sporidiis mono-vel distichis, ellipticis vel rhomboideo-ellipticis, utrinque plus minusve abrupte rotundato-subtruncatis, 16-18 \approx 8, hyalinis, strato mucoso, concolore, crassiusculo obvolutis.

Hab. in foliis vivis *Sapoteaceæ* cujusdam in dumetis, Cerro pelado prope Paraguarí Bras.

- *5. **Phyllachora peribebuyensis** Speg. Fungi Guar. Pug. I, n. 274. 7261
— Maculis orbicularibus, densiuscule sparsis amphigenis, subdeterminatis, centro arescenti-fulvescentibus, fusco- vel purpureo-

areolatis, 3-4 mm. diam.; stromatibus hypophyllis in centro macularum solitariis, rarius 2-3-aggregatis, lenticularibus vel globulosis, parvulis, 0,5-1 mm. diam., superne applanatulis, inferne a matrice liberis, vix centro subpedicellato-adnatis, convexulis, glabris non vel minutissime rugulosis, atris, cortice subcarbonaceo, pulpa subcarnosula, olivaceo-fuliginea donatis, contextu indistincte parenchymatico-celluloso, loculis in disco supero dense constipatis, globulosis vel e mutua pressione angulosis, 150-250 μ . diam., nucleo albo faretis; ascis cylindraceutis, antice rotundatis, postice longiuscule attenuato-pedicellatis, p. sp. 80-90 \simeq 9-11, octosporis, paraphysisibus filiformibus, simplicibus, densiusculis obvallatis; sporidiis oblique monostichis, ellipticis, utrinque acutiuscule rotundatis, 15-18 \simeq 6-8, primo granuloso-faretis, dein crasse 1-guttulatis, hyalinis vel dilutissime olivascentibus.

Hab. ad folia viva Melastomaceæ cujusdam in silvis prope Perybebuy et Carapeguá Bras. — Species ab hoc genere nonnihil desciscens et generi *Bagnisiellæ* accedens, ab utroque tamen satis distincta; an novum genus? Externa facie *Phacidii* species nonnullas simulans. Jodi ope tunica ascorum vix cœrulescit.

- * 6. **Phyllachora gibbosa** Winter in Rev. Myc. 1885, p. 207. — Stromatibus hypophyllis, sparsis, in superiore facie foliorum non v. macula minuta, fusca indicatis, erumpentibus, superficialibus, pulvinatis vel tuberculosis, atris, rugulosis, 1- $\frac{1}{4}$ mm. latis 0,6 mm. altis; loculis in singulo stromate 6-8, angulato-sphæroideis vel mutua pressione irregulari-oblongis, ostiolo conico, pertuso prominulo, sepimentis tenuibus, fuscis, membranaceis, separatis, 260-320 μ . latis; ascis cylindraceutis, vertice obtusis, fere truncatis, deorsum longe attenuatis, 8-sporis, 90-100 μ . longis (p. sporif.), 9,5-10,5 μ . latis; paraphysisibus filiformibus, ascos longe superantibus; sporidiis monostichis, ellipsoideis vel ovoideis, 1-cellularibus, utrinque late rotundatis, hyalinis, 12-16 \simeq 8-9. 7262

Hab. ad folia viva speciei cujusdam adhuc indeterminatæ Melastomatium Paraguay et Brasile Amer. austr.

- * 8. **Phyllachora tenuis** Speg. Fungi Guar. Pug. I, n. 278. — Maculis nullis v. vix manifestis, indeterminatis, pallescentibus; stromatibus sparsis, epiphyllis, bullose prominulis, minutis, 200-400 μ . d., innatis, tenuissimis, extus atris, glabris non v. vix subnitentibus, intus albis; loculis minutis, 120-150 μ . diam., dense constipatis, ostiolo subimperspicuo nucleoque albo donatis; ascis cylindraceutis v. cylindraceuto-clavatis, antice rotundatis, crasseque tunicatis, postice 7263

attenuato-pedicellatis, 70-75 \approx 10; paraphysibus parum manifestis, subfluxilibus obvallatis, 8-sporis; sporidiis elliptico-navicularibus, curvulis, utrinque plus minusve acutato-rotundatis, 10-13 \approx 4-4,5, intus granulosis v. crasse 1-guttulatis, hyalinis.

Hab. ad folia viva Bignoniaceæ cujusdam in silvis subvirginicis prope Ibitimis Bras. — Sporidia an postremo excentrice 1-septata? An forma juvenilis *Munkiellæ*?

- *9. **Phyllachora Pestis-nigra** Speg. Fung. Guar. Pug. I, n. 275. — Stro- 7264
mate parum manifesto, innato, ramulos foliaque omnia ac tota ambiente eaque tamen vix deformante, sed intense nigrificante; loculis parenchymate immersis, vix ad epiphyllum prominulis ac perspicuis, minutis, globoso-lenticularibus, 100-150 μ . diam., densiuscule sparsis, non confluentibus, epidermide tectis, atris, glabris vel vix rugulosis, coriaceo-carnosulis, contextu indistincto, extus nigro, intus albo; ascis clavulatis vel cylindraceo-clavatis, antice obtuse rotundatis, postice vix attenuatis, breviter crasseque pedicellatis, 40-50 \approx 10-12, aparaphysatis, octosporis; sporidiis distichis vel oblique monostichis, ellipticis, utrinque plus minusve acutato-rotundatis, 8-10 \approx 3,5, hyalinis.

Hab. ad folia viva Malpighiaceæ? arbustivæ cujusdam in dumetis prope Guarapí Bras. — Sporidia an primo strato mucoso, tenui obvolutis?

9. **Phyllachora laurina** Cooke in Grevillea XIII, pag. 63. — Hypo- 7265
phylla, gregaria, erumpens; stromatibus minutis, in maculas orbiculares dispositis, atris, subangulosis, hemisphæricis, intus albis; ascis clavatis, subsessilibus; sporidiis ellipticis, continuis, hyalinis, 16-18 \approx 5.

Hab. in foliis Lauraceæ, Barra Amer.

- *10. **Phyllachora intermedia** Speg. Fungi Guar. Pug. I, p. 241. — 7266
Maculis nullis v. vix manifestis, pallescentibus; stromatibus foliocolis, epi-v. hypophyllis, v. ramulicolis, 1-6 mm. diam., in foliis bullosis, in ramulis crassiuscule pulvinatis, suberumpenti-innatis, scrupuloso-tuberculosis, atris, opacis, subcarnosulis, contextu indistincto; loculis irregulariter subglobosis, e mutua pressione tortuoso-sinuosis, sæpe confluentibus, ostiolo minuto, non papillato donatis, nucleo albo faretis; ascis cylindraceo-subfusoides, antice truncato-rotundatis crassissimeque tunicatis, luce refracta 1-foveolatis, postice attenuato-pedicellatis, p. sp. 50 \approx 10, ped. 20 μ ., 8-sporis, paraphysibus filiformibus laxissime obvallatis; sporulis ellipticis,

utrinque rotundatis v. plus minusve obtusatis, $12 \approx 5$, non v. crasse 1-guttulatis, in ascis oblique monostichis v. distichis.

Hab. ad folia, petiolos nec non ramulos Sapindaceæ speciei cujusdam in silvis prope Guarapí.

* 15. **Phyllachora amphigena** Speg. Fungi Guar. Pug. I, n. 259. — 7267

Maculis nullis v. vix manifestis, 2-10 mm. diam., pallescentibus v. fuscescentibus, indeterminatis, epiphyllis v. rarius amphigenis; stromatibus minutulis, e globoso lenticularibus, 150-200 μ . diam., densiuscule gregariis, suborbiculariter in maculas dispositis, in matrice utrinque prominulis, levibus, glabris, atris, nitentibus, coriaceo-subcarbonaceis, opacis, contextu indistincto; loculis solitariis v. rarius binis in quoque stromate, ostiolo latiuscule hiante, epiphyllum spectante donatis; ascis subclavatis v. obclavatulis, antice rotundatis v. subtruncatulis, postice brevissime crasseque pedicellatis, 50-60 \approx 12-16, subcrassiuscule tunicatis, octosporis, paraphysibus raris, filiformibus, guttulatis obvallatis; sporidiis distichis v. subtristichis, utrinque obtusatis, 16-19 \approx 6-8, inæquilateralibus v. subcymbæformibus, non v. crasse 1-guttulatis, hyalinis.

Hab. ad folia viva Bignoniæ speciei cujusdam in dumetis pr. Guarapí et Paraguari Bras.

* 16. **Phyllachora Ruprechtiae** Speg. Fungi Guar. Pug. I, n. 263. — 7268

Maculis nullis aut vix manifestis, epiphyllis, fumoso-fuscescentibus, indeterminatis; stromatibus parvulis subhemisphæricis, lenticularibus, 350-400 μ . d., in maculis irregulariter densiusculeque sparsis, non confluentibus, matrice semiimmersis, in epiphyllis exertis, in hypophyllo epidermide tectis et vix prominulis, levibus, glabris, atris, nitentibus, coriaceo-subcarbonaceis, opacis, contextu indistincto, loculis in stromatibus solitariis, nucleo albo farctis, ostiolo vix vel non papillulato donatis; ascis cylindræcis, antice truncato-rotundatis, postice breviter attenuatis ac crassiuscule pedicellatis, 60-65 \approx 8-12, octosporis, aparaphysatis; sporidiis oblique v. transverse (extimis exceptis) monostichis, ellipticis, non v. vix ovoideis, medio non v. lenissime subattenuatis, 11 \approx 6-6,5 episporio tenui, nubuloso-ruguloso? (an protoplasmate?) donatis, hyalinis.

Hab. ad folia viva Ruprechtiae speciei cujusdam in silvis subvirgineis prope Paraguari Bras.

* 17. **Phyllachora Engleri** Speg. Fungi Guar. Pug. I, n. 265. — Ma- 7269

culis nullis v. vix pallescentibus, indeterminatis, non v. vix subbullosis, stromatibus densiuscule gregariis, amphigenis, matriçi innatis, vix lenticulari-pulvinatis, 3-5 mm. diam., 0,40-0,45 mm.

crass., irregulariter orbicularibus ambitu, plus minusve obtuse anguloso-repandulis, extus glabris, levibus, atris, nitentibus, intus amphigenis, peritheciigeris, cortice atro, medulla alba; loculis immersis, dense constipatis, lenticulari-conoideis, parvulis, 120-140 μ . d., ostiolo minutissimo, stromatis superficiem attingente et non exserto donatis; ascis cylindræis, apice truncato-rotundatis, postice breviter crasseque attenuato-stipitatis, 56-60 \approx 6-7, paraphysatis, octosporis; sporidiis recte distichis, ellipticis v. elliptico-navicularibus, utrinque acutiusculis, 10-13 \approx 3-4, rectis v. curvulis, primo protoplasmate granuloso-farctis dein crasse 2-guttulatis, hyalinis.

Hab. ad folia viva *Spathycarpæ lanceolatae* ad ripas fluminis S. Antonio prope pagum Villeta Bras. — Specimina nonnihil immatura videntur, et facile stromata, post foliorum delapsium, maturescentia: sporidia tandem didyma (?) et species ad genus *Dothidella* transferenda.

- *18. **Phyllachora Astronii** Speg. Fungi Guar. Pug. I, n. 262. — Ma- 7270
culis nullis aut vix manifestis, pallescentibus v. fusciscentibus, sparsis, indeterminatis; stromatibus parvulis, subgloboso-lenticularibus 200-300 μ . d., in maculis 1-5 laxè aggregatis, rarissime confluentibus, matrice innatis, utrinque prominulis, levibus, glabris, atris, nitentibus, coriaceo-carbonaceis, opacis, contextu indistincto; loculis solitariis in quoque stromate, nucleo albo farctis, ostiolo sæpius epiphylo, parvulo ornatis; ascis cylindræis, sæpe subtorulosis, antice rotundatis, postice brevissime crassissimeque attenuato-stipitatis, 50 \approx 20, octosporis, paraphysibus filiformibus, densiusculis obvallatis; sporidiis irregulariter distichis, extimis exceptis, ellipticis (an leniter obovatis?) utrinque obtusissime rotundatis, 12-14 \approx 8-9, episporio tenuiusculo (an minute denseque punctulato?), non v. 2-guttulatis, hyalinis.

Hab. ad folia viva *Astronii juglandifolii* in silvis montanis de Peribebuy Bras.

- *20. **Phyllachora aspideoides** Sacc. et Berl. in Rev. Myc. 1885, t. LIV, 7271
f. 7. — *Picea*; stromate orbiculari, applanato, maculis foliorum luteis insito, loculis minutis, vix prominulis; ascis cylindræis, breve stipitatis, aparaphysatis, 100-110 \approx 12-14; sporidiis oblique monostichis, ovoideis, crasse uni guttatis, continuis, 20 \approx 10, hyalinis.

Hab. in pagina inf. foliorum *Fici*..... Santos Bras. — *Ph. Aspideæ* peraffinis, a qua ascis apice rotundatis differt. An satis?

- *21 **Phyllachora exanthematica** (Lév) Cooke in Grevillea XIII, p. 64, 7272

Dothidea exanthematica Berk. in Herb. — Hypophylla vel amphigena; stromate elliptico, convexo, 3 ≈ 4 mm. atro, nitido, levi; ascis subclavatis; sporidiis ellipticis, continuis, hyalinis, 13-18 ≈ 6.

Hab. in foliis coriaceis in insulis Marquesas et Mauritius.

- *22. **Phyllachora infectoria** Cooke in Grevillea XIII, p. 63. — Epi- 7273
phylla; stromatibus pulvinatis, convexis, irregularibus, confluentibus, atris, nitidis, loculis immersis, numerosis, ostiolis obscuris; ascis clavato-cylindraceis; sporidiis ellipticis, continuis, hyalinis, 12 ≈ 5.

Hab. in foliis Fici infectoriæ, Ceylon.

- *26. **Phyllachora sphærosperma** Wint. in Hedw. 1884, pag. 170. — 7274
Stromatibus sparsis, rotundatis seu ellipsoideis, interdum confluentibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., atris, parum nitidis, ob ostiola prominula subtuberculatis, loculos globoso-angulatos, dense stipatos includentibus; ascis cylindraceis, breviter stipitatis, 8-sporis, 84-96 ≈ 10-10,5; sporidiis monostichis, subglobosis, hyalinis, demum autem fuscis, levibus, plerumque 9 μ . diam.; paraphysibus filiformibus.

Hab. in foliis vivis Cenchri echinati prope S. Francisco Calif. — «An potius *Auerswaldiæ* species?».

- *27. **Phyllachora? Alpinia** Sacc. et Berl. Misc. Myc. II, pag. 5. — 7275
Stromatibus oblongis, obtuse colliculosis, nitidissimis, nigris epiphyllis, macula decolorata sæpius insertis; loculis majusculis, paucis; ascis...

Hab. in foliis Alpinia cœruleæ emortuis Tallebud Australiae. — Affinis videtur *Ph. phylloplacæ*, sed fructificatio ignota.

- *28. **Phyllachora interstitialis** (B. et C.) Cooke in Grev. XIII, p. 64. 7276
Dothidea interstitialis B. et C. in Herb. Berk. — Hypophylla; maculis atris, irregularibus, foliorum nervulis limitatis, 2-3 mm., diam., loculis paucis, stroma elevantibus, subnitidis; ascis clavatis; sporidiis ellipticis, continuis, hyalinis, immaturis, circ. 10 μ . long.

Hab. in foliis, Cuba.

- *33. **Phyllachora Zanthoxyli** (Lév.) Cooke in Grevillea XIII, pag. 63. 4453
Sphæria Zanthoxyli Lév. Ann. Sc. Nat. 5, 1846, p. 261, et Sacc. Syll. II, p. 435. — Asci clavati, octospori; sporidia biseriata, sub lanceolata, continua, hyalina, 13 ≈ 3.

- *35. **Phyllachora Copaiferæ** Speg. Fungi Guar. Pug. I, n. 267. — 7277
Maculis mediocribus, 5-6 mm. diam., expallentibus indeterminatis; stromatibus matrice innatis, dense aggregatis, sæpe leniter 2-5-confluentibus, totam maculam occupantibus, epiphyllis v. subamphigenis, ad hypophyllum non vel vix prominulis, epidermide macula nigra

notata adnato-tectis, e globosis lenticularibus, 250-400 μ . d., glabris, atris, nitentibus, coriaceo-subcarbonaceis, contextu indistincto, opaco; loculis solitariis v. 2-3 in quoque stromate, globulosis v. e mutua pressione difformibus, 200-300 μ . d., nucleo albo faretis, ostiolo in stromate vix v. non papillulato donatis; ascis cylindraceutis, antice truncato-rotundatis, postice brevissime crasseque attenuato-stipitatis, 70-80 \approx 10-12, octosporis, paraphysibus filiformibus, septulatis, densiusculis, conspicue longioribus obvallatis; sporidiis oblique monostichis, elliptico-inæquilateralibus, v. subnavicularibus, utrinque subacutato-rotundatis, 15-18 \approx 6-8, non v. 2-guttulatis, hyalinis.

Hab. ad folia viva *Copaiferae* speciei cujusdam in silvis montanis de Peribeby Bras.

- *34. **Phyllachora Guatteriae** (Berk.) Cooke in *Grevillea* XIII, p. 68, 7278
Dothidea Guatteriae Berk. in Herb. n. 9082. — Amphigena; stromate convexo, atro, nitido, 5 mm. diam.; ascis clavatis; sporidiis biseriatis, ellipticis, continuis, hyalinis, 16-18 \approx 8.

Hab. in foliis *Guatteriae*, Ceylon.

- *41. **Phyllachora Balansæ** Speg. Fung. Guar. Pug. I, n. 260. — 7279
 Maculis majusculis, 5-20 mm. diam., expallentibus, sæpe confluentibus, indeterminatis, stromatibus matrice innatis, parvulis, globulosis, 120-250 μ . d., in maculis irregulariter suborbiculatim dispositis, densiuscule aggregatis, non v. rarius 2-3-confluentibus, utrinque prominulo-exertis, superne subpapillulatis, levibus, glabris, atris, nitentibus, coriaceo-carbonaceis, opacis, contextu indistincto; loculis solitariis in quoque stromate, nucleo albo-faretis, ad epiphyllum ostiolo minuto non v. vix prominulo donatis; ascis cylindraceutis v. obclavato-cylindraceutis (rarissime saccato-clavatis, 50 \approx 14 cum sporidiis transverse distichis), antice obtuse rotundatis, postice breviter crasseque pedicellatis, 55-60 \approx 10-12, octosporis; paraphysibus filiformibus, guttulatis densiuscule obvallatis; sporidiis transverse, rarius oblique monostichis, ellipticis, utrinque obtusissime rotundatis, 8-10 \approx 6-7, episporio tenui, protoplasmate sæpe granuloso donatis, non v. 1-3-guttulatis, hyalinis.

Hab. ad folia viva *Cedrelæ brasiliensis* in silvis subvirginis prope Guarapi Bras. — Species habitu *Ph. amphigenæ* simillima, notis tamen fructificationis rite distincta.

42. **Phyllachora Graminis** (Pers.) Fuck. — Sacc. Syll. II, p. 602. *Var.* 5132
Tupi Speg. Fungi Guar. Pug. I, p. 241. — Maculis nullis; stromatibus amphigenis, minutis, irregulariter ellipticis, 0,5-1 mm. long. 0,2-0,4 lat. mm., longitudinaliter densiuscule sparsis, non raro con-

fluentibus, matrice innatis, vix prominulis, glabris, atris, opacis, subcarbonaceis, contextu indistincto; loculis immersis, amphigenis, minutis, 100-120 μ . diam., confertiuscule constipatis, ostiolo vix manifesto donatis; ascis cylindræis v. cylindræo-subclavatis, antice subtruncatis crasseque tunicatis, postice breviter attenuatis crasseque stipitatis, 60-75 \approx 8-12, 8-sporis, paraphysibus filiformibus, simplicibus, plus minusve densis obvallatis; sporulis quandoque distichis quandoque oblique v. transverse monostichis, ellipticis v. ovatis, utrinque acutiuscule rotundatis, 10-12 \approx 5-6, primo granuloso-farctis, hyalinis.

Hab. ad folia viva Oplismeni, Paspali, Andropogonis specierum quarundam prope Paraguari, Guarapí et S. Thomas. — In forma *Paspali* sporidia videntur strato mucoso tenui obvoluta.

- * 43. **Phyllachora Luzulæ** (Rabh.) Cooke in Grev. XIII, p. 64, *Sphæria* 7280
Luzulæ Rabh. Fungi Eur. n. 533. Bot. Zeit. 1863, p. 229. — Stromatibus substriæformibus, atris, carnosis, nucleo atro; ascis clavatis; sporidiis ellipticis, utrinque rotundatis, continuis, hyalinis, 10 \approx 5.

Hab. in foliis *Luzulæ* in Germania.

- * 44. **Phyllachora Brachypodii** Roum. in Rev. Myc. 1885, p. 170. — 7281
 Stromatibus vero in lineas dispositis, rarioribus; ascis minoribus, 7-8 \approx 6-7, paraphysibus sursum ramosis obvallatis; sporidiis ovoideis, 12 \approx 7-8.

Hab. in foliis vivis *Brachypodii pinnati*, Seine Infer. Galliæ. — Affinis *Phyll. Bromi*.

- * 45. **Phyllachora setariæcola** Speg. Fungi Guar. Pug. I, n. 279. — 7282
 Maculis nullis v. vix manifestis, pallescentibus vel rubescentibus, indeterminatis; stromatibus amphigenis, ellipticis, longitudinalibus, dense sparsis, vix pulvinatis, atris, glabris, non nitentibus, subcarbonaceis, intus albis, 0,5-2 mm. long., 0,2-0,3 mm. lat., loculis dense constipatis, globulosis, 120-150 μ . diam., nigro-tunicatis, nucleo albo-farctis; ascis cylindræo-clavatis, antice truncatis, tunica incrassatula, postice attenuato-pedicellatis, 90-95 \approx 10-12, paraphysibus paucis obvallatis, 8-sporis; sporidiis ellipticis, utrinque acutatis, rectis v. vix inæquilateralibus, 13-15 \approx 6-6,5, distichis v. rarius submonostichis, hyalinis, granuloso-farctis v. 1-guttulatis.

Hab. ad folia viva v. languida *Setariæ* speciei cujusdam in pascuis Pastoreo de Caá-guazú Bras. — Species ambigua ob loculos fusco-tunicatos, sed tunica pulpa e stromatis arcte adnata ac concreta! An melius *Gibellie* species? An *Ph. Setariæ* hujus spermogonium?

- * 52. **Phyllachora bambusina** Speg. Fungi Guar. Pug. I, n. 266. — 7283

Maculis nullis; stromatibus epiphyllis, linearibus, 1-2 mm. long., 0,5 lat., pulvinatulis, primo tectis dein rimose dehiscentibus, matrici longitudinalibus, facillime scutato-dimidiatis (microthyriaceis), atris, glabris, rugulosis, loculis minutis, 150-200 μ . d. nucleo albo faretis, ostiolo parum perspicuo, vix pertuso donatis; ascis cylindraceis, antice truncato-rotundatis crassiusculeque tunicatis, postice attenuatis, brevissime crasseque stipitatis, 55-60 \approx 7-8, octosporis, paraphysibus densissimis, filiformibus obvallatis; sporidiis oblique monostichis ellipticis v. elliptico-clavulatis, utrinque rotundato-acutatis, 12-13 \approx 5-5,5, 2-guttulatis medio subconstrictulis et facile postremo 1-septatis, hyalinis.

Hab. ad folia viva Bambusaceæ speciei cujusdam in silva Naranajo Bras.

91. **Phyllachora exsculpta** (Berk.) Sacc. Syll. II, p. 613, Cooke in Grevillea XIII, p. 64. — Stroma orbiculare, nigrum, margine radiatum exsculptum, ostiolis papilliformibus, centralibus; asci breviter clavati, sessiles; sporidia elliptica, continua (immatura), hyalina, circa 12 \approx 4.

93. **Phyllachora Musæ** (Klotsch.) Sacc. Syll. p. 613 et 625, Cooke in Grevillea XIII, p. 64. — Asci clavati; sporidia elliptica, rotundata, continua, hyalina, 10-12 \approx 7.

* 94. **Phyllachora Taruma** Speg. Fungi Guar. Pug. I, n. 264. — Maculis epiphyllis plus minusve manifestis, expallentibus v. fusciscentibus, indeterminatis, stromatibus parvulis, subglobosis v. lenticularibus, 300-450 μ . d., in maculis irregulariter densiusculeque sparsis, sæpe confluentibus, matrice immersis in hypophyllo prominulo-exsertis, in epiphyllis non papillulatis sed epidermide punctiformi-nigrefacta adnato-tectis, glabris, subrugulosis, atris, opacis v. vix subnitentibus, carbonaceis, coriaceis, contextu indistincto; loculis 2-3 in quoque stromate e mutua pressione difformibus, 150-200 μ . d. nucleo-albo gelatinoso faretis, ostiolis discretis vel fasciculatis ad epiphyllum vergentibus donatis; ascis cito diffluentibus, cylindraceis v. cylindraceo-subclavatis, apice rotundato-truncatis, deorsum breviter crasseque attenuato-stipitatis, 65-70 \approx 10, octosporis, paraphysibus filiformibus, diffluentibus, densis obvallatis; sporidiis oblique monostichis (extimis exceptis), ellipticis, utrinque rotundatis, 12-14 \approx 6-7, sæpe leniter inæquilateralibus, hyalinis.

Hab. ad folia viva Viticis (incol. Taruma) speciei cujusdam in Asuncion del Paraguay Bras.

94. **Phyllachora Trifolii** (Pers.) Fuck. Symb. myc. p. 218. Sacc. Syll. 5184

II, p. 613. — Asci clavati; sporidia elliptica, continua, hyalina, 10-12 \approx 5. (Ex specimenibus Herbarii Cl. Berkeleyi Confert Cooke in Grevillea XIII, p. 93).

- * 94. **Phyllachora Lespedezæ** (Schw.) Cooke in Grevillea XIII, p. 63. 4269
Sphaeria Lesp. Schw. Syn. Amer. p. 400. Sacc. Syll. II, p. 400. — Asci clavati; sporidia elliptica, continua, hyalina 20 \approx 10.
- * 95. **Phyllachora paraguayæ** Speg. Fung. Guar. Pug. I, n. 272. — 7285
 Maculis nullis vel epiphyllis, parvulis, 1-2 mm. diam., atris, radianti-indeterminatis, ad hypophyllum non vel vix manifestis; stromatibus epiphyllis, leniter conoideo-lenticularibus, parvulis, 0,3-1 mm. diam., densiuscule sparsis, glabris, levibus, atris, nitentibus, 1 vel 2-5 locularibus, loculis ovatis, e mutua pressione sæpe angulosis, 120-180 μ . diam., nucleo albo farctis; ascis cylindræis vel obclavulatis, antice obtuse rotundatis crassiusculeque tunicatis, postice leniter attenuatis, pedicello brevi, noduloso donatis, p. sp. 50-75 \approx 14-18, octosporis, paraphysibus densissimis, filiformibus, subdiffluentibus obvallatis; sporidiis di-vel tristichis, ellipticis, utrinque rotundatis sæpeque subtruncatis, 11-15 \approx 6-8, hyalinis, protoplasmate dense granuloso farctis vel crasse 1-guttulatis.
Hab. ad folia viva Luheæ divaricatæ in silvis prope Guarapí et Paraguari Bras.
- * 149. **Phyllachora nervisequia** Wint. in Hedw. 1885. — Stromatibus 7286
 elongato-lanceolatis, utrinque longe attenuatis, nervos sequentibus, nitide atris, loculis hemisphærice prominulis, papilla distincta, nitida præditis, dense stipatis vel 3-seriatis, sæpe confluentibus, granulatis, macula indeterminata, fusca, demum obscuriore, epiphylla, 4-5 mm. longa, plerumque 1 mm. lata insidentibus; ascis elongato-oblongis, sursum perparum, deorsum magis attenuatis, 8-sporis, 87-110 \approx 16; sporidiis subdistichis, oblongo-subclavatis, unicellularibus, hyalinis, 19-21 \approx 7-7,5; paraphysibus copiosis, filiformibus.
Hab. ad folia viva aridaque Cordylines cannifoliæ, Rockhampton in Australia (MÜLLER).
152. **Phyllachora Caricis** (Fr.) Sacc. Syll. II, p. 625. — Asci clavati; 5242
 sporidia elliptica, continua, hyalina. (Confr. Cooke Grevillea XIII, p. 63).
- * 153. **Phyllachora? palmicola** Speg. Fungi Guar. Pug. I, n. 271. — Ma- 7287
 culis parum manifestis, sæpe totum folium ambientibus, expallentibus, circa stromata sæpe fusciscentibus; stromatibus innato-immersis, tectis, vix e parenchymate tumefactulo manifestis, atris, subcarbo-

naceis, contextu indistincto; oculis stromate immersis, globulosis, 90-100 μ . d. ostiolis crassis, superficiem epidermidis attingentibus ac leniter papillato-prominulis, levibus matricem supra stromata, minute ac confertiuscule atro-granuloso-punctulatam efficientibus, apice obtusis vel applanatis, perforatisque, nucleo mucoso, albo farctis; ascis clavatis, antice obtusatis, postice attenuato-pedicellatis, p. sp. 52 \approx 15-20, ped. 20-25 \approx 5, paraphysibus filiformibus, densiusculis obvallatis, octosporis; sporidiis inordinate distichis, elliptico-subcylindraceis, utrinque obtuse rotundatis, 18-20 \approx 9, hyalinis.

Hab. ad folia languida Coperniciæ ceriferæ et *Trithrinacis brasiliensis* in montuosis, Cerro Arro-añi prope Yaguaron Bras. et prope Argentina. — Species pulchella, mox dignoscenda ostiolis tantum manifestis, amphigenis, densiuscule supra stromata exertulis, subseriatis.

- *154. **Phyllachora leptostromoidea** Cooke in Rav. N. A. Fungi et 7288
in Grevillea XIII, p. 64. — Stromate irregulari, minuto, applanato, atro, subinde confluyente, ostiolis vix conspicuis; ascis clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, 8 \approx 3.

Hab. in frondibus *Pteridis* in Carolina inf. — Habitus *Leptostromatis*.

EURYACHORA Fuck. — Sacc. Syll. II, p. 628.

- *1. **Euryachora Lathyri** (Lév.) Cooke in Grevillea XIII, p. 65, Herb. 7289
Berk. n. 9198. *Dothidea Lathyri* Lév. Demid. Voy. II, 106, t. 5. f. 8. — Hypo-vel epiphylla; peritheciis sparsis, hemisphaericis, prominulis, astomis, albo farctis, stromate maculæformi, irregulari, aterrimo immersis; ascis elongatis, cylindricis; sporidiis ovatis, sporidiolis duobus includentibus, 12 \approx 8.

Hab. in foliis *Lathyri*, Son-dagh.

Sect. 2. Phæosporæ Sacc.

AUERSWALDIA Sacc. Syll. II, p. 626.

2. **Auerswaldia Chamæropis** (Cooke) Sacc. Syll. II, p. 626, Sacc. et 5248
Berl. Miscell. Myc. II, p. 28, n. 125, tab. VIII, fig. 8. — Tandem ascos in hac specie reperire contigit: sunt obovati, sessiles, apice obtuse rotundati, 60-70 \approx 40-45, aparaphysati, octospori; sporidia ellipsoidea, 24-26 \approx 14-16, polysticha, ochraceo-fusca; stromata clypeata, oblonga, atro-nitida 1,5 \approx 1 mm.; loculi globosi, pauci, ostio-

lis vix manifestis. — An species hæc cum Cookeana congruat verisimile est, sed sporidia non prorsus amygdaloidea, ut Cooke describit, et asci insuper ab hoc auctore non descripti. Num *Sphaeropsis? dothideoides* Sacc. et Roum. Mich. II, p. 348, eadem res sit v. tantum status pycnidicus, ob specimina obsoleta, dubium.

Hab. in utraque pag. foliorum emort. Chamæropis humilis, S. Giovanni pr. Oristano Sardiniae (MAGNUS).

- *2. **Auerswaldia palmicola** Speg. Fungi Guar. I. n. 281. — Stromatibus amphigenis, innato-superficialibus, irregulariter elongato-pulvinatis, inferne sæpius subcoarctatulis, 1-3 mm. long., 1 mm. lat. 0,5-0,8 mm. crass., longitudinalibus, superne scrupuloso-nudulatis, atris, subcarbonaceis, fragilibus, glabris, sparsis v. laxe gregariis; loculis stromate immersis, vix prominulis, globulosis, 100-130 μ . diam., nucleo albo faretis; ascis clavatis, antice rotundatis, postice longe attenuato-pedicellatis, 120-130 \approx 14-16, aparaphysatis, octosporis; sporidiis distichis, elliptico-inæquilateralibus v. cymbæformibus, utrinque obtusatis, 15 \approx 6-7, primo hyalinis dein opace fuliginis, non v. 2-4-guttulatis, strato mucoso, hyalino, persistente, plus minusve crasso, obvolutis.

Hab. ad folia viva Cocos Yatay prope Pirayù in paludosis, Bras. — Species prædistincta, an huc *Hyp. palmicola* (B. et C.)?

- *3. **Auerswaldia disciformis** Winter in Hedw. 1884, p. 170. — Stromatibus amphigenis, rotundatis seu irregularibus, sæpe angulatis, disciformibus, erumpentibus, epidermide fissa laciniis latis, recurvatis, atratis cinctis, atris, opacis sæpe rugulosis, multilocularibus, usque 5 mm. lat. sæpe confluentibus; loculis omnino immersis, haud prominulis, dense stipatis, globosis; ascis numerosissimis, cylindraceis, deorsum parum attenuatis, 8-sporis, 100-136 \approx 14-16; sporidiis oblique monostichis seu subdistichis, ellipsoideis, continuis, olivaceis, 17-19 \approx 8-9; paraphysibus non distinctis.

Hab. in foliis vivis Myricæ cujusdam prope Capetown in Promontorio Bonæ Spei.

- *4. **Auerswaldia puccinioides** Speg. Fungi Guar. Pug. I, n. 282. — Maculis nullis v. parvulis, vix manifestis, pallescentibus; stromatibus superficialibus, hypophyllis v. rarius amphigenis, globosis v. hemisphærico-sublenticularibus 0,5-1,5 mm. diam., glabris, levibus (sub lente minute rugulosis), intus extusque fusco-ferrugineo-atris, sparsis v. laxe gregariis, non confluentibus, basi rotundato-coarctatis, puncto centrali tantum matrici adnatis, coriaceo-carnosis, contextu indistincto; loculis periphæricis, globulosis, minutis, 140

μ . diam., pulpa fusca repletis; ascis clavato-cylindraceis, tunica crassissima, antice rotundatis, postice longe attenuato-pedicellatis p. sp. 70-80 \approx 18, ped. 50-60 \approx 5, 8-sporis, paraphysibus paucis obvallatis; sporidiis recte distichis, ellipticis v. elliptico-ovoideis, rectis v. leniter inæquilateralibus, utrinque obtusiusculis, 12-15 \approx 6, olivaceis, eguttulatis.

Hab. ad folia viva coriacea plantæ cujusdam in silva Abbocaiatè prope Villa Rica Bras. — Species pulcherrima, prædistincta, primo obtutu facillime pro *Pucciniæ* specie quadam sumenda, generibus *Hypoxylo*ne vel *Hypocreella* pluribus characteribus accedens.

5. **Auerswaldia? bambusicola** Speg. Fungi Guar. Pug. I, n. 280. — 7293
Stromatibus superficialibus, pulvinate-effusis, matrice arcte adnatis (non innatis nec erumpentibus), elliptico-elongatis, 1-2 mm. long. 0,7-1 mm. lat., sparsis v. 3-4-confluentibus, longitudinalibus, fusco-atris, glabris, levibus, coriaceo-subcarbonaceis, contextu subindistincto, minute celluloso-parenchymatico, fusco v. atro; loculis numerosissimis, minutis 150 μ . diam., e mutua pressione angulosis, nucleo opalescenti-albo faretis; ascis cylindraceis, apice obtuse rotundatis, tunica incrassata, postice breviter noduloseque attenuato-stipitatis, 65-70 \approx 7-10, apapophysatis, 8-sporis; sporidiis cymbæformibus, utrinque acute obtusatis, 12-13 \approx 5, non v. minute 2-guttulatis, fuliginis.

Hab. ad culmos dejectos putrescentes *Bambusaceæ* sarmentosæ cujusdam in silva subvirginea Caá-guazú prope Arroyo-guazú Bras. — Species a genere nonnihil deflectens et facile generi *Hypoxylo* adscribenda; characteres tamen loculorum fere sine dubio dothideacei: an huc *Hyp. culmorum* v. *Hyp. perforatum*?

Sect. 3. *Hyalodidymæ* Sacc.

MUNKIELLA Speg. Fungi Guar. Pug. I, p. 248, (Etym. a viro sapientissimo D. EBERHART MUNK VON ROSENSCHELD Sueciæ filii, naturæ guaraniticæ sedulissimo perscrutatore). — Stromata, loculi et ascis ut in *Dothidella*; sporidia elliptica v. ovoidea, recta v. inæquilateralia, bilocularia, loculo altero maximo, altero minuto, fere appendiculari, hyalina.

1. **Munkiella Caá-guazú** Speg. Fungi Guar. Pug. I, n. 283. — 7294
Maculis nullis; stromatibus sæpius epiphyllis, dense sparsis, pulvinulatis, plus minusve orbicularibus, 0,5-1,5 mm diam., matrici arcte adnatis (an scutatis?), extus atris, ruguloso-gibbulosis, ostiolis pa-

rum perspicuis, cortice coriaceo, contextu indistincto, intus albocarnosulis; loculis numerosis, sublenticularibus, 150-200 μ . diam., nucleo gelatinoso, subhyalino faretis, ostiolo minuto, non vel vix papillulato donatis; ascis cylindraceutis v. cylindraceuto-subclavulatis, antice obtusissimis v. subtruncato-rotundatis crassissimeque tunicatis, postice brevissime pedicellatis, paraphysibus simplicibus, flexuosis, parvis obvallatis, 8-sporis; sporidiis recte vel oblique distichis, naviculari-elongatis v. naviculari-subclavulatis, utrinque obtusiusculis, 12-13 \approx 4-5, loculo infero minore, tertium vel quartum superioris vix æquante, hyalinis.

Hab. ad folia viva Apocynearum in silva subvirginea Caaguazù, nec non prope Guarapi, Bras.

2. **Munkiella guaranítica** Speg. Fungi Guar. Pug. I, n. 284. — Stromatibus maculiformibus, innato-effusis, sæpe totum folium ambientibus, epiphyllis, rarius ad hypophyllum nonnihil manifestis, non pulvinatis, fusco v. rubiginoso-atris, non v. vix granulosis, non nitentibus, cortice coriaccello, pulpa alba; loculis sparsis, lenticularibus, 150-200 μ . d., non v. vix prominulis, nucleo albo faretis, ostiolo parum perspicuo donatis; ascis cylindraceutis, antice truncato-rotundatis crasseque tunicatis, deorsum breviter crasseque attenuato-pedicellatis, 55-65 \approx 6-8, paraphysatis, 8-sporis; sporidiis oblique monostichis v. rarius distichis, ovoideo-inæquilateralibus, 10 \approx 5, loculo supero octies quam infero longiore, hyalinis. 7295

Hab. ad folia viva Teconiæ speciei cujusdam pr. Peribeby Bras. — *Var. major* Speg. l. c. n. 285: Stromatibus ut in typo sed ad hypophyllum magis perspicuis; ascis obclavatis, v. subfusoides, 70-80 \approx 10-14, pedicello nonnihil longiore ac graciliore donatis; sporidiis elliptico-ovoideis, paullo majoribus, 12-13 \approx 6, loculo supero quintuplo v. sextuplo quam infero longiore crassioreque. Ad folia viva Tabebuia Avellanæ in Cerro pelado prope Paraguari Bras.

3. **Munkiella topographica** Speg. Fungi Guar. Pug. I, n. 286. — Maculis nullis; stromatibus amphigenis, sed præcipue hypophyllis, irregulariter orbiculari-ellipticis, 0,4-2 mm. diam., sæpius confluentibus et secus nervos hinc inde gregariis, vix pulvinatis, fusco-atris, levibus, glabris, contextu indistincto, coriaceo-membranaceis; loculis confertis, immersis, pro ratione majusculis, 200-250 μ . diam., nucleo gelatinoso, albo faretis; ascis cylindraceutis, antice obtuse rotundatis crasseque tunicatis, postice modice attenuato-pedicellatis, 65-70 \approx 9-12, 8-sporis, paraphysibus filiformibus, densissimis, sub- 7296

coalescentibus obvallatis; sporidiis monostichis v. subdistichis, ovoideo-elongatis v. subfusoido-clavulatis, antice obtusiusculis postice acutis, 15-16 \approx 5-6, loculo supero quintuplo v. sextuplo quam infero longiore, granuloso-farctis, hyalinis.

Hab. ad folia viva Fici species cujusdam in silvis subvirginis prope Guarapi Bras.

DOTHIDELLA Speg. — Sacc. Syll. II, p. 627.

- *1. **Dothidella Berkeleyana** (Cooke) Berl. et Vogl. *Phyllachora Berkeleyana* Cooke in Grevillea XIII, p. 65, *Dothidea Baccharidis* B. et C. in Herb. Berk. n. 9161. — Amphigena, gregaria; stromate elevato, hemisphærico, 4-7 mm. diam., papillato-rugoso, opaco; loculis minutis, plurimis immersis; ascis clavatis; sporidiis ellipticis, uniseptatis, hyalinis, 25 μ . longis.

Hab. in foliis Baccharidis, Cuba.

- *2. **Dothidella endocrypta** (Mont.) Berl. et Vogl. *Phyllachora endocrypta* Cooke in Grevillea XIII, pag. 65, *Dothidea endocrypta* Mont. in Herb. Berk. n. 9115. — Epiphylla; stromate discoideo, atro, opaco, 5-8 mm. diam., loculis minutis, immersis; ascis cylindrico-clavatis, octosporis; sporidiis biserialibus, ellipticis uniseptatis, utrinque rotundatis, hyalinis, flavescentibus, 20 \approx 5.

Hab. in foliis, Guiana (LEPERIEUR).

- *6. **Dothidella Salvadoræ** (Cooke) Berl. et Vogl. *Phyllachora Salvadoræ* Cooke in Grevillea XIII, p. 65. — Amphigena, irregularis, prominula, atra, rugosa, hinc illinc in circulos disposita, loculis tenuibus albis; ascis clavatis, 60 \approx 14, octosporis; sporidiis ellipticis, uniseptatis, utrinque rotundatis, hyalinis, 12-14 \approx 6.

Hab. in foliis Salvadoræ persicæ, Socotra.

- *9. **Dothidella apiculata** Sacc. et Berl. F. Austral. p. 4, t. LII, f. 8. — Stromatibus epiphyllis, in maculis ochraceo-brunneis, variis laxe gregariis, epidermide tenuissima, saltem initio, velatis, pulvinato-depressis, ambitu irregulariter rotundatis, atro-nitidis, 1-1,3 mm. d., intus pauci-locellatis, ostiolis brevissimis obtusis; ascis subteretibus, apice rotundatis, breve abrupte stipitatis, 75-80 \approx 18-20 aparrhysatis, 4-sporis; sporidiis subdistichis, ovato-oblongis, utrinque rotundatis et breve obtuseque apiculatis, 1-septatis et leniter constrictis, 26-28 \approx 11-13, hyalinis.

Hab. in foliis languidis Litseæ dealbatæ, Samford Australiae. — Affinis *Dothidelle australi*, a qua sporidiorum fabrica statim dignoscitur.

- * 15. **Dothidella Osyridis** (Cooke) Berl. et Vogl. *Phyllachora Osyridis* Cooke in Grevillea XIII, p. 64. — Epiphylla, orbiculata, applanata, atra, punctato-rugosa, regulariter disciformis, 2-3 mm. diam., loculis numerosis, minimis; ascis clavatis, octosporis; sporidiis biserialibus, ovatis, uniseptatis, uno loculo multo minori, hyalinis, 12 \approx 6.

Hab. in foliis vivis Osyridis compressæ, Cape of Good Hope Africae.

- * 19. **Dothidella Eugeniæ** (Thüm.) Berl. et Vogl. *Phyllachora Eugeniæ* (Thüm.) Cooke in Grevillea XIII, p. 65, *Asterina Eugeniæ* in Herb. Thüm. (non Mont.). — Amphigena; stromate orbiculari, atro, ruguloso, subdepresso, ambitu nudo, loculis minutis; ascis clavatis, octosporis; sporidiis ellipticis, utrinque rotundatis, uniseptatis, hyalinis, 18 \approx 8.

Hab. in foliis Eugeniæ planipedis, Chili, Valdivia.

- * 27. **Dothidella? caaguazuensis** Speg. Fungi Guar. Pug. I, n. 287. — 73
Maculis nullis v. pallescenti-subarescentibus indeterminatis; stromatibus epiphyllis, rarissime hypophyllis, hinc inde dense gregariis, bullas majusculas, sæpe totum folium ambientes efficientibus, hemisphærico-pulvinatulis, parvulis 0,5-1,5 mm. diam., sæpe confluentibus, granulosis, atris v. atro-velutinis cellulis elongatis, dense papilloso-prominentibus, 10 \approx 4, contextu coriaceo-subcarbonaceo, indistincto, atro; loculis parce prominulis, globulosis, 130-140 μ . diam., dense constipatis, nucleo albo faretis, ostiolo non v. vix manifesto donatis; ascis cylindræco-subfusoides, mox fluxilibus, 8-sporis; sporidiis distichis, elongato-clavulatis, utrinque obtusatis, 18-20 \approx 5, primo hyalinis dein dilute e hyalino fuscis v. chlorinis.

Hab. ad folia viva Compositæ cujusdam in dumetis Pastoreo de Caá-guazú Bras.

- * 28. **Dothidella confluens** (W. et C.) Sacc. *Phyllachora confluens* Welw. et Cur. F. Angol. p. 285, t. 17, fig. 16-18. — Peritheciis spuriis e substantia folii formatis, globosis vel oblongis, in tubercula nigra, rugosa minuta confluentibus; tuberculis approximatis acervulos 12-24 mm. latos formantibus; nucleis biformibus, altero e tela floccosa sporulas nudas gerente constante, altero ascigero; sporidiis oblongis, utrinque acutiusculis, biserialibus, 1-septatis, non constrictis, subhyalinis, 17-18 \approx 5-6.

Hab. ad foliola fruticis scandentis Leguminosæ floribus paniculatis albis prædite, Golungo alto Angolæ.

ROSENSCHELDIA Speg. Fungi Guar. Pug. I, p. 250 (Etym. ab eximio EBERHARD MUNK VON ROSENSCHELD de re naturali meritissimo). — Stromata erumpentia, elongata. Loculi stromate totaliter exserti, globosi, dense congesti sed non confluentes. Asci cylindraceuti, 8-spori, aparaphysati. Sporidia fusoido- vel clavulato-acicularia, utrinque acuta, medio 1-septata, hyalina. — A genere *Montagnella* sporidiis hyalinis, 1-septatis distinctum, a *Dothidella* loculis exsertis, a *Munkiella* sporidiis medio septatis.

1. **Rosenscheldia paraguayana** Speg. Fungi Guar. Pug. I, n. 288. — 7305
Stromatibus hypodermicis, inter corticem et lignum late serpentinibus, innatis, primo epidermide non deformata tectis, dein rimose longitudinaliter erumpentibus, pulvinulis sæpius confluentibus, ramos ramulosque totos ambientibus; loculis primo stromate immersis dein totaliter exsertis, globosis, 250-350 μ . diam., densissime constipatis, nunquam confluentibus, glabris, levibus, vix sub lente validissima minute papillulosis, tunica coriaceo-spongiosa, contextu crasse celluloso-parenchymatico (cellulis 15 μ . diam.), subopaco, atro-fuligineo; ascis cylindraceutis, antice truncato-rotundatis crassiusculeque tunicatis, postice brevissime attenuato-pedicellatis, 120-130 \approx 5, aparaphysatis, 8-sporis; sporidiis fusoidis v. clavulato-acicularibus, utrinque acutissimis, 24-30 \approx 2-2,5 non v. vix inæquilateralibus, medio 1-septatis, non constrictis, loculis minutissime biguttulatis, hyalinis.

Hab. ad ramos ramulosque vivos *Hyptidis* speciei cujusdam in dumetis silvæ subvirginicæ Caá-guazú Bras. — Species pulcherrima, habitu externo *Dimerosporium Collinsii* v. *Parodiella* speciem quamdam fere æmulans.

PLOWRIGHTIA Sacc. Syll. II, p. 635.

- * 5. **Plowrightia Calystegiæ** (Cooke et Hark.) Berl. et Vogl. *Dothidea* 7306
Calystegiæ Cooke et Harkness in *Grevillea* XIII, p. 8. — Subgregaria; stromatibus ellipticis, erumpentibus, atris, opacis, 1-2 \approx 1/2 mm., cellulis immersis, epidermide rupta cinctis; ascis clavatis, octosporis vel tetrasporis; sporidiis elongato-ellipticis, inordinatis, uniseptatis, nec constrictis, hyalinis, 22 \approx 7; conidiis ovalibus, continuis, 5 \approx 3, pallidis, consociatis.

Hab. in caulibus *Calystegiæ* sepium in California (HARKNESS).

- * 6. **Plowrightia Balanseana** Sacc. Roum et Berl. in *Rev. Myc.* 1885, 7307
p. 157, t. LIV, f. 8. — Stromatibus pulvinate-orbicularibus, extus

cinereo-rufis, $\frac{1}{2}$ -2 mm. diam., loculis minutis, 100-200 μ . diam., nucleo albido et ostiolo prominulo instructis, atris; ascis cylindraceis vel cylindraceo-clavatis, breviter et crasse pedicellatis, paraphysibus filiformibus obvallatis, tunica crassa præditis, 70 \approx 15, octosporis; sporidiis inordinate distichis vel oblique monostichis, ellipsoideis, prope imam basim (spuriæ?) uniseptatis, 15 \approx 10, hyalinis.

Hab. in pagina inf. foliorum Bignonæ..... Santos in Brasilia. — In pagina superiore foliorum fungillus maculas nigrescenti-griseas efficit.

*7. **Plowrightia phyllogena** Harkness Fungi Pac. Coast. p. 166. — 7308

Hypophylla, mycelio denso insidens; peritheciis discretis, minutis, nigris, rugosis, depressis; paraphysibus delicatis; ascis cylindraceis, 120 \approx 16, 8-sporis; sporidiis ovato-oblongis, hyalinis, prope basim septatis, 16 \approx 8.

Hab. in ramulis Amelanchieris alnifoliæ, Sierra Nevada Californiæ.

SCIRRHIA Nits. — Sacc. Syll. II, p. 635.

*1. **Scirrhia Groveana** Sacc. Misc. Myc. II. p. 23, tab. IX, f. 18. — 7309

Stromatibus linearibus, plurimis, in utraque foliorum pagina parallele gregariis, epidermide initio velatis, 1-1,5 mm. longis, atris; loculis confertis subglobosis; ostiolis breve papillato-prominulis, pertusis; ascis fasciculatis, fusioideis, sessilibus, utrinque obtusiusculis, 60 \approx 12, aparaphysatis; sporidiis distichis, oblongis, v. subclavulatis, 14-16 \approx 3,5-4, 1-septatis, non constrictis, nubiosis, hyalinis.

Hab. in foliis languidis Typhæ latifoliæ, sociâ *Leptosphaeriâ Michotii*, Langle Pool prope Birmingham Britannæ, (W. B. GROVE).

*2. **Scirrhia infusata** Winter in Hedwigia 1886, p. 102. — 7310

Stromatibus amphigenis, seriatis, lineas breves, valde prominentes, usque 2 mm. longas, atras formantibus; loculis parcis, monostiche denseque stipatis, subglobosis, ostiolo papilliformi, vix prominulo præditis, 100-180 μ . latis; ascis cylindraceis, deorsum parum attenuatis, fere sessilibus, 8-sporis, 56-65 \approx 9-10; sporidiis subdistichis, oblongo fusioideis, utrinque attenuatis, sed rotundatis, inæquilateralibus, medio uniseptatis, non constrictis, hyalinis, 16-18 \approx 3,5-4; paraphysibus tenuissimis, filiformibus.

Hab. in foliis Gramineæ ejusdam, St. Thomè Afr. Occid.

Sect. 4. Phæodidymæ Sacc.

DOTHIDEA Fr. — Sacc. Syll. II, p. 639.

- *1. **Dothidea Loniceræ** Cooke in Grevillea XIII, p. 66. — Erumpens, 7311
suborbicularis, sæpe confluens, pulvinata, planiuscula, atra 1 mm.
diam., loculis sparsis, periphæricis; ascis clavatis, octosporis; spo-
ridiis sublanceolatis, medio constrictis, uniseptatis, fuscis, 22-24 \approx 9.

Hab. in sarmentis Loniceræ sempervirentis in Pensyl-
vania Amer. bor. (MICHENER).

- *2. **Dothidea viridispora** (Cooke) Berl. et Vogl. *Phyllachora viridi-* 7312
spora Cooke in Grevillea XIII, pag. 65. — Epiphylla, sparsa,
orbicularis, hemisphærica, 1-2 mm. diam., atra, rugosa, intus alba;
ascis clavatis, octosporis; sporidiis biserialibus, ellipticis, diu con-
tinuis, binucleatis, hyalino-virescentibus, 16-18 \approx 7,5-8, demum uni-
septatis.

Hab. in foliis vivis, Jamaica (D. MORRIS).

- *4. **Dothidea Artemisiæ** (Schw.) Cooke in Grevillea XII, p. 5, *Sphæ-* 1544
ria Artemisiæ Schw. Amer. bor. n. 1227, *Nummularia Artemi-*
siæ Sacc. Syll. I, p. 401.

- *16. **Dothidea Munckii** Speg. Fung. Guar. Pug. I, n. 298. — Macu- 7313
lis nullis vel hypophyllis, parvulis, fusciscentibus, indetermina-
tis; stromatibus epiphyllis, sparsis, innatis, tecto-erumpentibus,
irregulariter elongatulis, 0,5-2,5 mm. long., 0,5-1 mm. lat., pul-
vinato-prominulis, glabris, subcarbonaceis, extus atris, intus fu-
scis; loculis densis, stipatis, in stromate leniter prominulis, ir-
regulariter globosis, 180-300 μ . diam., ostiolo papillulato, vix
perspicio, nucleo fusco faretis; ascis cylindraceo-subclavatulis, an-
tice obtuse rotundatis, crassiuscule tunicatis, postice breviter at-
tenuatis, 65 \approx 8-9, paraphysibus parvis obvallatis; sporidiis distichis
v. oblique monostichis, ovoideis, utrinque rotundatis, superne sæpe
subtruncatis, 8-9 \approx 3,5-4, 1-septatis, septo nonnihil excentrico, lo-
culis crasse 1-guttulatis, supero fere altero duplo majore, fuligineis.

Hab. ad folia viva Quebrachiæ spec. cujusdam in silvis sub-
virgineis prope Guarapí Bras.

Sect. 5. Phragmosporæ Sacc.

MONTAGNELLA Speg. — Sacc. Syll. II, p. 646.

- *1. **Montagnella Castagnei** Speg. Fungi Guar. Pug. I, n. 290. — Ma- 7314

culis nullis v. vix manifestis, pallescentibus; stromatibus amphigenis, sæpius tamen hypophyllis, subneurophilis, innato-erumpentibus, parvulis, 0,5-1 μ . diam., irregulariter orbicularibus, sparsis, rarius aggregatis v. confluentibus, subpuccinioides, pulvinatulis, primo tomento albo tectis (an status conidici residuis?), dein nudis, fusco-rubiginosis, postremo fusco-atris, granulosis (e loculis prominulis), coriaceis, contextu indistincto, opaco; loculis dense constipatis, ad tertium vel medium usque prominulis, ovato-subconicis, 150-200 μ . diam., nucleo albo faretis; ascis sursum rotundatis crassequae tunicatis, deorsum breviter attenuato-pedicellatis, paraphysibus filiformibus, simplicibus, densis obvallatis, 8-sporis; sporidiis distichis, elliptico-elongatis v. subfusoides, utrinque acutiuscule rotundatis, 18-20 \approx 4-5, rectis v. leniter inæquilateralibus, primo medio 1-septato-constrictis, loculis majuscule 2-guttulatis, utrinque appendice globuliformi, parvula ornatis, hyalinis, dein exappendiculatis, 3-septatis, ad septa non constrictis, dilute fumosis.

Hab. ad folia viva Eupatorij tinctorij in uliginosis prope Peribebuy Bras.

- *2. **Montagnella tumefaciens** (E. et Harkn.) Berl. et Vogl. *Sphaeria* 731
tumefaciens Ell. et Harkn. in Journ. of Myc. 1886, pag. 41. — Peritheciis crustaceis, hemisphæricis, $\frac{1}{3}$ - $\frac{1}{5}$ mm. diam., nigris, rugosis, stipatis, crusta stromatica per rimas longitudinales corticis erumpente, seriesque dense compactas, continuas v. interruptas efficiente, 3-5 cm. longas unitis; ascis 100-120 \approx 10-12, subcylindraceis, copiose paraphysatis; sporidiis sæpe distichis, cylindræo-fusoides, leniter curvis, 3-septatis, lutescentibus, 25-30 \approx 6-7.

Hab. in ramulis emortuis Artemisiæ californicæ in Monte Diabolo et Cala Amer. bor. — Habitu *Dothidea morbosa* similis a qua peritheciis seriatim dispositis, nec non sporidiorum fabrica differt. « An *Rhopoglyphus?* ».

HOMOSTEGIA Fuck. — Sacc. Syll. II, p. 649.

- *1. **Homostegia Pelvetii** (Hepp) Linds. Trans. Roy. Soc. Ed. XXIV, 731
 p. 450, Cooke in Grevillea XIII, p. 66. *Celidium Pelvetii* Hepp Eur. n. 589. — Ascis clavato-saccatis, 45 \approx 12, octosporis; sporidiis ellipticis, uniseptatis, hyalinis v. subluteolis, 11 \approx 6.

Hab. parasitice in *Sticta aurata* in Germania et Britannia.

- *3. **Homostegia Albizziæ** (Cooke) Berl. et Vogl. *Phyllachora* *Albiz-*
ziæ Cooke in Grevillea XIII, p. 65, *Dothidea viventis* var. *Al-*
bizziæ Cooke. — Epiphylla, minuta, convexa, nitida, vix 1 mm.

diam.; loculis paucis, 1-4; ascis clavatis, breviter stipitatis; sporidiis lanceolatis, medio constrictis, uniseptatis, binucleatis, demum triseptatis, hyalinis, 25-27 \approx 7.

Hab. in foliis vivis Albizziæ, Natal (J. M. WOOD). — «Quum sporidia in typo *Homostegie* sint colorata, sectio *Roumegueria* forte genus distinctum constituere meretur».

- *5. **Homostegia dendritica** (Cooke) Berl. et Vogl. *Phyllachora den-* 7318
dritica Cooke in Grevillea XIII, p. 65. — Epiphylla, subrotunda, elliptica vel confluens, convexa, atra, nitida, in maculas dendroides collecta, præcipue supra nervulos foliorum disposita, intus alba; cellulis paucis; ascis clavatis; sporidiis sublanceolatis, medio leniter constrictis, uniseptatis, binucleatis, demum triseptatis, hyalinis, 20-22 \approx 5.

Hab. in foliis coriaceis in Brasilia.

EURYTHECA De Seynes — Sacc. Syll. II, pag. 651.

- *1. **Eurytheca? abyssinica** Pass. in litt. Martelli in Flor. Bog. p. 7319
145. — Stromatibus superficialibus, oblongis vel globulosis, sæpius depressis, rugulosis, atris, intus albidis, loculis stipatis, immersis, monoascis, ascis obpiriformibus, membrana apice incrassata, octosporis, 20-22 \approx 13-16; sporidiis subtristichis vel conglobatis, oblongo-cuneatis, hyalinis, primo medio septatis, dein bi-triseptatis.

Hab. in ramis corticatis, Keren Africae (BECCARI).

Sect. 6. Scolecosporæ Sacc.

OPHIODOTHIS Sacc. Syll. II, p. 653.

- *1. **Ophiodothis tarda** Harkn. New Calif. Fungi pag. 26. — Hypo- 7320
phylla, in maculis irregularibus, angularibus, 3-4 mm. latis, sæpius confluentibus; stromatibus papillatis, nitentibus, nigris; ascis 8-sporis, cylindræis, basi abrupte truncatis bulbosisque, curvis, 57 \approx 9; sporidiis linearibus, pluriguttulatis, 42 \approx 2.

Hab. in foliis *Rhois diversilobæ*, San Francisco Californiæ.

- *2. **Ophiodothis paraguariensis** Speg. Fungi Guar. Pug. I, n. 292. — 7321
Maculis minutis, 1-15 mm. diam., epiphyllis, rarius amphigenis, indeterminatis, arescenti-fuscis v. cinereo-atris, dense gregariis, rarius confluentibus, substromaticis; stromatibus minutis, epiphyllis, rarius hypophyllis, subepidermicis, cum macularum substantibus confluentibus, globulosis, minutis, parce promiaulis, 100-120 μ . diam., atris, glabris, subnitentibus, 1-ocularibus; loculis minutis, e glo-

boso lenticularibus, 80-100 μ . diam., solitariis, nucleo albo faretis, ostiolo minuto non v. vix papillulato-perforato donatis; ascis fusoides v. fusoides-subclavatis, sursum truncatis crassissimeque tunicatis, late perforatis, deorsum attenuatis, pedicello parvulo, noduloso instructis, 50-52 \approx 7-9, aparaphysatis vel pseudoparaphysatis, 8-sporis; sporidiis fusoides-acicularibus, utrinque acutato-rotundatis, rectis v. leniter curvulis, 40-45 \approx 2-2,5, primo multiguttulatis, dein obscure polyblastibus, (an pluriseptatis?), hyalinis.

Hab. ad folia viva Anonaceæ cujusdam in silvis prope Paraguarî Bras.

- * 3. **Ophiodothis Balansæ** Speg. Fungi Guar. Pug. I, n. 291. — 7323
 Maculis stromaticis, amphigenis, suborbicularibus, 5-15 mm. diam., atris, indeterminatis; stromatibus innatis (in maculis vel circum circa) densiuscule gregariis, suborbicularibus, rarius confluentibus, vix prominulis, sæpius 1-locularibus, coriaccis, contextu indistincto, atro, opaco; loculis e globuloso lenticularibus, 200-300 μ . d., ostiolo parum manifesto, nucleo albo faretis; ascis obclavatis, apice attenuato-truncatis, leniter incrassato-tunicatis, basi subabrupte coarctatis, minute noduloseque pedicellatis, 65 \approx 10, aparaphysatis, 8-sporis; sporidiis fasciculato-polystichis, acicularibus, utrinque attenuato-acutatis, 35-40 \approx 2,5, lenissime curvulis, medio 1-septatis, non constrictis, loculis granuloso faretis, hyalinis.

Hab. ad folia viva Bignoniaceæ cujusdam in silvis secus flumen Pirayû Bras. — Species ob sporidia bilocularia inter genera *Ophiodothis* et *Dothidella* nutans.

Fam. 6. Microthyriaceæ FR.

Sect. 1. Hyalosporæ. Sacc.

MYIOCOPRON Speg. — Sacc. Syll. II, p. 659.

- * 12. **Myiocopron Palmarum** Wint. in Hedw. 1885, p. 25. — 7323
 Peritheciis superficialibus, dense sparsis seu gregariis, scutiformibus, orbicularibus vel ellipticis, ostiolatis, atris, opacis, contextu membranaceo, fusco, parenchymatico, cellulis marginalibus plerumque bifidis, 120-260 μ . diam.; ascis ovatis, obovatis vel e basi ventricosa sursum parum attenuatis, sessilibus, 8-sporis, 40-50 \approx 23-26; sporidiis conglobatis, subovatis, unicellularibus, hyalinis, intus granulosis, 16-17 \approx 8-9; paraphysibus parcissimis, filiformibus.

Hab. in partibus exsiccatis foliorum *Palmarum*, pr. S. Francisco Bras. (E. ULE).

* 13. **Myiocopron? crustaceum** Speg. Fungi Guar. Pug. I, n. 293. 7324

— Maculis nullis; peritheciis amphigenis, sæpius hypophyllis, densissime aggregatis, subconfluentibus, late folia crusta fusco-atra, continua obtegentibus ac nigrifacientibus, discoideis, dimidiato-scutatis, parvulis, 150-180 μ . diam., coriaccellis, contextu radiante, subindistincto, ostiolo parum conspicuo, subrotunde v. stellatim dehiscente donatis; ascis subsaccatis, ovatis v. obovatis, apice obtusatis, basi abrupte coarctatis minuteque stipitatis, 40-50 \approx 15-20; paraphysibus simplicibus, paucissimis immixtis, 8-sporis; sporidiis oblique distichis, ovoideis v. clavulatis, leniter inæquilateralibus, utrinque obtusiusculis, non v. medio subcoarctatulis (an demum 1-septatis?) granuloso-farctis, hyalinis, 15-20 \approx 7-8.

Hab. ad folia viva *Palmarum* in silvis uliginosis prope *Pe-ribebuy* Bras.

PIPTOSTOMA Berk. et Br. Fungi of Ceylon n. 1135 (Etym. *pipto* cado et *stoma* ostiolum). — Perithecia minuta, plana; sporidia oblonga, curvula. — Genus hoc a *Piptostomo* Lév. Ann. Sc. Nat. 1846, p. 65, vero est distinguendum quia ascigerum (Cfr. Sacc. Syll. III, p. 183).

1. **Piptostoma spilotum** Berk. et Br. Fung. of Ceylon. n. 1135. — 7325

Minutum planum, cito circumscissum; ascis lanceolatis; sporidiis oblongis, curvulis, 6 μ . long.

Hab. in insula Ceylon.

Sect. 2. Phæosporæ Sacc.

VIZELLA Sacc. Syll. II, p. 662.

* 1. **Vizella Hieronymi** Wint. in Hedw. 1885, p. 261 — Peritheciis epi- 7326

phyllis, plerumque 2-8-constipatis, greges minutos, rotundos vel irregulares formantibus, depresse hemisphærico-conoideis, atris, nitidis, 210-240 μ . latis; ascis oblongo-cylindræis, in stipitem brevem attenuatis, 8-sporis, 65-75 \approx 12; sporidiis subdistichis vel conglobatis, elongato-ellipticis vel suboblongis, deorsum parum angustatis, utrinque rotundatis, fuscis, supra medium linea alba (septo?) notatis, ad basim appendicula brevi, verruciformi, fere hyalina vel fusca præditis, 12-14 \approx 5-6.

Hab. ad Trichiliæ Hieronymi folia viva, Argentina, Tabacal cerca Oran (Кекк).

Sect. 3. Hyalodidymæ Sacc.

MICROTHYRIUM Desm. — Sacc. Syll. II, p. 662.

*1. **Microthyrium paraguayense** Speg. Fungi Guar. Pug. I, n. 294. — 7327

Maculis nullis; peritheciis epiphyllis, sparsis v. hinc inde laxe gregariis, parvulis, 150-160 μ . diam., orbicularibus, dimidiato-scutatis, atris, membranaceis, contextu eximie subparenchymatico-radiante, ostiolo minuto, rotundo donatis; ascis cylindræo-obclavatulis, apice truncato-rotundatis crasseque tunicatis, basi coarctatis minute nodoseque stipitatis, 30-32 \approx 8-10, paraphysibus simplicibus, parvis obvallatis, 8-sporis; sporidiis distichis, clavulatis, medio 1-septatis, constrictis, loculo supero crassiore subglobosoque, infero conico, 7-8 \approx 2, hyalinis.

Hab. ad folia viva Sapindaceæ cujusdam in silvis pr. Guarapi Bras.

*2. **Microthyrium thyriascum** Schulz, et Sacc. in Rev. Myc. 1884, 7328

Schulz. Ill. fung. Slav. n. 5. — Peritheciis punctiformibus, atris dimidiatis, impertusis, (semper?), 250-300 μ . diam., applanatis superficialibus; ascis obovato-saccatis, circ. 60 \approx 30, aparaphysatis, subsessilibus, apice rotundatis, octosporis; sporidiis 3-stictis obovatis, constricto 1-septatis, loculo sup. obtusiore, 19 \approx 10, hyalinis.

Hab. in ramis corticatis junioribus quercinis, Eperjës Slavoniæ. — Ascis sporidiisque crassis mox dignoscenda species.

*3. **Microthyrium arcticum** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 15, t. I, f. 16. — 7329

Peritheciis in foliis aridis amphigenis, superficialibus, vulgo gregariis, imò dense confertis, dimidiatis, minutis, 60-100 μ . diam., aterrimis, plus minus nitentibus, rugosis, centro perforatis; ascis 35 \approx 7; sporidiis distichis, hyalinis, bacilliformibus, medio septatis.

Hab. in foliis aridis Potentillæ fragiformis, Nowaja Semlja.

*4. **Microthyrium idæum** Sacc. et Roum. in Rev. Myc. 1883, tab. 40, 7330

f. 14. — Peritheciis epiphyllis, dimidiato-applanatis, 250 μ . diam. atris, centro pertusis, margine hyphis fuliginæis, remote septatis fimbriatis, contextu peritheciiorum minute denseque parenchymatico subradiato; ascis fusoidæo-obclavatis brevissime stipitatis spurie (?) paraphysatis, 50-55 \approx 12-15, octosporis; sporidiis 2-3-stichis, clavu-

latis, infra medium, 1-septatis, vix constrictis, loculo superiore multo majore, 18-22 \approx 4, olivaceis.

Hab. in foliis *Vaccinii vitis-idææ* in Gallia.

- *8. **Microthyrium mauritanicum** Mont. Syll. p. 261, Sacc. Syll. II, 5374
p. 664, Bacc. et Avett. Cont. Stud. myc. rom. p. 20, t. XVI, f. 7.
— Perithecia sparsa vel interdum gregaria, punctiformia, dimidiato-scutata, obscure radiatim contexta, ostiolo rimoso dehiscencia, 100 μ . lata; asci obovato-oblongi, oblique et brevissime stipitati, ad apicem versus incrassati, 19 \approx 13, 8-spori; sporidia tristicha, elongata, curvula vel recta, hyalina, ad medium septata, 12 \approx 3.

Hab. in culmis *Arundinis Donacis* ad sepes prope Roma Ital. merid.

- *11. **Microthyrium pulchellum** Speg. Fungi Guar. Pug. I, n. 295. — 7331
Maculis nullis; peritheciis hypophyllis, densissime congestis, maculas crustaceas, irregulariter orbiculares, 2-3 mm. diam., sparsas, non confluentes, atras v. sordide glaucescenti-atras, non vel vix subpulvinatulas, subpapillosulas efficientibus, parvulis, 130-180 μ . diam., dimidiato-scutatis, orbicularibus, sæpe confluentibus ac e mutua pressione angulosis, atris, minutissime rugulosis, poro parum perspicuo pertusis, contextu dense prosenchymatico-radiante, pulchre concentrice zonato, fuligineo-atro, subopaco; ascis cylindraceo-clavatis, brevissime stipitatis, 30 \approx 10, aparaphysatis?, 8-sporis; sporidiis primo fusoideo-clavulatis, medio 1-septatis, non constrictis, apicibus appendice minutissima, globosa v. penicillata ornatis, dein clavulatis ad septum constrictis, utrinque exappendiculatis obtusiusculisque, hyalinis.

Hab. ad folia viva *Blechni spec. cujusdam* in silva Caaguazù Bras.

- *14. **Microthyrium caaguazuense** Speg. Fungi Guar. Pug. I, n. 296. 7332
— Subiculo tenuissimo, laxe arachnoideo, fusco, amphigeno, utrinque folium sæpe totum ambiente; peritheciis hinc inde in subiculo sparsis, dimidiato-scutatis, 150-200 μ . diam., membranaceo-coriacellis, fusco-atris, ostiolo vix perspicuo perforatis, ambitu fimbriatulis, contextu breviter prosenchymatico, periphærico pel-lucido, centrali opaco, olivaceo-fuligineo; ascis ovatis v. ellipticis, tunica modice incrassatula, utrinque acutato-rotundatis, crasse brevissimeque pedicellatis, 65 \approx 26, aparaphysatis, 8-sporis; sporidiis inordinatis, clavulatis, 25 \approx 12, medio 1-septato-constrictis, loculo supero subgloboso, infero conoideo, utrinque obtusiusculis, hyalinis.

Hab. ad folia viva Myrtaceæ ejusdam in silva subvirginea, Caá-guazú vocata, Bras.

Sect. 4. Phæodidymæ Sacc.

SEYNESIA Sacc. Syll. II, p. 668.

1. **Seynesia grandis** (Niessl) Winter in Hedwigia 1886, p. 107, *Mi.* 7333
crothyrium grande Niessl in Rab. Fungi Europ. n. 2467. — Peritheciis gregariis, sæpissime confluentibus, superficialibus, sine mycelio distincto, e basi suborbiculatis, planis, parum convexis, disciformibus seu clypeiformibus, centro pertusis, ambitu definito, radiante, atris, opacis, rugulosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ascis oblongis, rarius magis elongatis, fere sessilibus, 8-sporis, 80-90 \approx 20-25; sporidiis inordinatis vel subdistichis, oblongis vel oblongo-subclavatis, medio uniseptatis et valde constrictis, utrinque rotundatis, rarius acutiusculis, dilute fuscis, cellula superiori latiori, sæpe inæquilateralibus, 24-30 \approx 9-10.

Hab. ad scapos aridos Calami spec., Calcutta Ind. (KURZ).

2. **Seynesia Balansæ** Speg. Fungi Guar. Pug. I, n. 297. — Maculis 7334
nullis; subiculo tenuissimo, sæpius epiphylo, orbiculariter expanso, sparso vel sæpe totum folium ambiente, atro, velutino, hyphis simplicibus vel ramosis, flexuosis repentibus vel vix suberectis, densiuscule septulatis, gracilibus, 3-4 μ . crass., fuliginis composito; peritheciis in subiculo laxè sparsis, hemisphærico-dimidiatis, parvulis, 100-200 μ . diam., atris, levibus, glabris, tenui membranaceis, contextu eximie prosenchymatico-radiante, margine in hyphas tenuiores, flexuosas, simplices vel furcatas, repentis, gracillimas producto, olivaceo, ostiolo fimbriato, stellatim dehiscente (præcipue sub pressione) donatis, 8-16-ascos gerentibus; ascis subrotundato-piriformibus, antice obtusissime latissimeque truncato-rotundatis crasseque tunicatis, postice cuneatis, brevissime nodoseque stipitatis, 30-40 \approx 20-32, octosporis aparaphysatis; sporidiis conglobatis, ovatis, medio 1-septatis, validule constrictis, utrinque obtusis, 15-17 \approx 7-9; loculis non v. 1-guttulatis, supero crassiore, primo hyalinis dein fuliginis et subopacis.

Hab. ad folia viva arborum vulgatissima in silvis prope Guarapí Bras. — *forma Myrtacearum*: subiculo sæpius epiphylo, denso; peritheciis membranaceis, 100-150 μ . diam.; ascis piriformibus, 30-35 \approx 25-27; sporidiis elliptico-clavulatis, 15 \approx 6. — *f. Maccluræ*: subiculo sæpius epiphylo, denso; peritheciis membranaceis

80-100 μ . diam.; ascis piriformibus, 30 \approx 25; sporidiis ovoideis, 15 \approx 7. — *f. Acanthacearum*: subiculo amphigeno sparso; peritheciis membranaceis, 60-70 μ . diam.; ascis piriformibus, 25-30 \approx 20-22; sporidiis elliptico-ovoides, 15 \approx 7-8. — *f. Solani* sp. cuj.: subiculo epiphylo, laxe aggregato; peritheciis coriacellis, 150-200 μ . diam.; ascis piriformibus, 35-40 \approx 25-32; sporidiis ovoideis, 14-16 \approx 7-8. — *f. Solani verbascifolii*: subiculo epiphylo, laxo; peritheciis membranaceis, 100-120 μ . diam.; ascis globoso-ovoides (an muco immersis?), 30 \approx 20-25; sporidiis elliptico-ovoides, valide constrictis, 18 \approx 10.

3. **Seynesia paraguayensis** Speg. Fungi Guar. Pug. I, n. 300. — 7335
Maculis hypophyllis, parvulis, 3-5 mm. indeterminatis, fuscis; subiculo maculiformi, 2-5 mm. diam., crustaceo-subvelutino, atro, orbiculari, hinc inde sparso, ex hyphis laxe intricatis, gracilibus, simplicibus v. parce ramosis, 3-5 μ . crassis, parce septulatis, ramulis densis, breviusculis, 9-11 \approx 4-5, distichis (fere ut in *Meliolis*), olivaceis ornatis composito; peritheciis scutato-dimidiatis, 100-150 μ . diam., atris, opacis, glabris, primo astomis dein stellatim dehiscentibus, contextu indistincto; ascis globosis, 30-40 μ . diam., 6-8 in quoque perithecio, aparaphysatis, 8-sporis; sporidiis globatis, ellipticis, rectis, medio 1-septatis, leniter constrictis, utrinque obtusiusculis, 20-25 \approx 10, loculis crasse 1-guttulatis, supero majore crassioreque, opace fuligineis.

Hab. ad folia viva Bignoniaceæ spec. cujusdam in silvis prope Peribeby Bras.

4. **Seynesia guaranítica** Speg. Fungi Guar. Pug. I, n. 299. — 7336
Subiculo epiphylo, rarissime parce hypophyllo, laxe arachnoideo, tenuissimo, subcrustaceo, atro, ex hyphis repentibus, flexuosis, septatis, 4-5 μ . crass., ramosis composito, folium sæpe totum ambiente; peritheciis scutato-dimidiatis, hinc inde densiuscule aggregatis, parvulis, 150 μ . diam., atris, astomis, lacero-dehiscentibus, margine densissime ac tenuiter reticulato-fimbriatis, contextu eximie prosenchymatico-radiante, olivaceo, subopaco; ascis non visis; sporidiis ellipticis v. vix inæquilateralibus, medio 1-septatis, leniter constrictis, utrinque obtusiuscule rotundatis, 25 \approx 10, loculis subæqualibus, opace fuligineis non v. 1-guttulatis.

Hab. ad folia viva Trichiliæ spec. cujusdam in silvis prope Piragù Bras.

5. **Seynesia piraguensis** Speg. Fungi Guar. Pug. I, n. 298. — 7337
culis nullis; peritheciis sparsis vel hinc inde laxe gregariis, subi-

culo deficientibus, atris, dimidiato-scutatis, 200 μ . diam., per ætatem medio stellatim dehiscentibus, contextu eximie radiante, fuligineo, subopaco; ascis globosis, 45 μ . diam., aparaphysatis, 8-sporis; sporidiis conglobatis, ellipticis v. elliptico-ovatis, utrinque obtusiusculis, 20-22 \approx 9-10, medio 1-septato-constrictis, rectis vel inæqualiteralibus, loculis vix inæqualibus, primo hyalinis dein dilute fuscis.

Hab. ad folia viva Laurineæ cujusdam prope Piragù Bras.

Sect. 5. Phragmosporæ Sacc.

SCUTELLUM Speg. — Sacc. Syll. II, p. 668.

*1. **Scutellum guaraniticum** Speg. Fungi Guar. Pug. I, n. 301. — 7338

Maculis nullis; subiculo parcissimo plus minusve effuso, fusco, innato, fere lichenino, conidiis tamen carente; peritheciis paucis, epiphyllis, hinc inde 3-5 laxè aggregatis, discoideis, dimidiato-scutatis, parvulis, 130-160 μ . diam., atris, coriaceis, glaberrimis, nitentibus, ostiolo minuto, rotundo, 15 μ . diam., perforatis, contextu indistincto, atro, opaco; ascis cylindræis, antice truncato-rotundatis, crassissime tunicatis, postice attenuatis, breviter crasseque pedicellatis, 50 \approx 15-18, aparaphysatis, 8-sporis; sporidiis distichis, ovoideis, sursum rotundato-subtruncatis, postice acutiuscule obtusatis, loculis duobus superis fuliginæis, supremo centrali duplo longiore, infimo hyalino, fere appendiculari, 12-14 \approx 5-6.

Hab. ad folia viva *Pilocarpi* pinnatifoliæ in silvis subvirginæis prope Paraguarì Bras.

MICROPELTIS Mont. — Sacc. Syll. II, p. 669.

1. **Micropeltis applanata** Mont. — Sacc. Syll. II, p. 669, ***M. depauperata** Sacc. et Berl. Misc. Myc. II, pag. 6. — 5390

Peritheciis amphigenis, $\frac{1}{3}$ mm. diam., convexulo-applanatis, atris, dein centro hiantibus; contextu subradiante; ascis oblongo-clavatis, breve, sæpe oblique stipitatis, apice rotundatis crasseque tunicatis, 45-50 \approx 18-21, 4-6-sporis; sporidiis fusoides, curvulis, initio leniter mucosis, 18-20 \approx 4,5-5,5, spurie 1-2-septatis, hyalinis.

Hab. in foliis languidis *Eucalypti tereticornis*, Logan Australiæ.

*1. **Micropeltis æruginosa** Winter in Hedwigia 1886, pag. 100. — 7339

Peritheciis epiphyllis, sparsis, orbiculari-scutatis, depressis, ambitu mycelio densissime intertexto, ex hyphis ramosissimis, tenuissimis,

æruginosis formato anguste cinctis, vertice irregulariter dehiscen-
tibus, intense æruginosis, 360-470 μ . diam.; ascis elongatis, utrin-
que attenuatis, apice rotundatis, basi stipitiformi, 8-sporis, 140-
175 \approx 21-24; sporidiis inordinatis, elongato-fusoideis, curvulis, deor-
sum magis longeque attenuatis, 10-12-septatis, ad septa constrictis,
hyalinis, cellula 5 vel 6, latissima, 60-74 \approx 9-10,5.

Hab. in foliis vivis, St. Thomè Afr. occ.

- *2. **Micropeltis viridatra** Winter in Hedwigia 1886, pag. 99. — Pe- 7340
ritheciis epiphyllis, sparsis, scutiformibus, perparum convexis, spu-
rie ostiolatis, sordide viridi-atris, ex hyphis valde ramosis inter-
textis formatis, ambitu mycelio hyalino, ex hyphis repentibus, ra-
mosissimis contexto anguste cinctis, 300-340 μ . diam.; ascis oblon-
gis, utrinque attenuatis, breviter stipitatis, 8-sporis, 50-60 \approx 17-18;
sporidiis inordinatis, elongato-clavatis, curvatis, utrinque rotunda-
tis, 8-septatis, hyalinis, 17-24 \approx 4,5; paraphysibus parvis, tenuissi-
mis, filiformibus.

Hab. ad folia viva Phaseoli, St. Thomè Afr. occ.

Sect. 6. Closterosporæ Sacc.

PEMPHIDIUM Mont. — Sacc. Syll. II, p. 670.

- *1. **Pemphidium Pini** Karst. in Hedw. 1884, n. 1, p. 6, Rev. atque Synop. 7341
Ascom. fenn. p. 88. — Peritheciis hic illic aggregatis, innato-su-
perfacialibus, applanatis, scutiformibus, papillatis, atris, opacis, exi-
guis; ascis fusoideo-clavatis, circ. 35 \approx 7; sporidiis octonis, disti-
chis, elongato-fusoideis, guttulatis, hyalinis, circ. 9 \approx 2 (maturis
haud visis); paraphysibus sat numerosis, filiformibus, bene discre-
tis, gracillimis.

Hab. in cortice Pini silvestris ad Mustiala Fenniae.

Sect. 7. Dictyosporæ Sacc.

SACCARDINULA Speg. Fungi Guar. Pug. I, p. 257. — (Etym. a cla-
vissimo viro P. A. SACCARDO de Mycologia maxime merito). — Pe-
rithecia simplicia, microthyriacea. Asci pauci globosi v. ovati, 8-
spori, aparaphysati. Sporidia muralia, hyalina.

1. **Saccardinula guaranítica** Speg. Fungi Guar. Pug. I, p. 302. — 7342
Hypophylla glomerulatum dense sparsa; peritheciis maculis stro-
maticis, minutissimis, 200-250 μ . diam., atris insidentibus, 1-3-ag-
gregatis, hemisphaericis, dimidiato-scutatis, parvulis, 80-100 μ . d.,

membranaceo-coriacellis, glabris, ostiolo minutissimo, sæpius per ætatem stellatim lacero donatis, contextu circa ostiolum indistincto, coriaceo-opaco, atro, ambitu parenchymatico-globuloso, seriatis radiante, olivaceo-fuligineo præditis; ascis globosis v. ovoideis, apice crasse tunicatis, pedicello nullo vel vix umboniformi, 15-20 = 15-19, aparaphysatis, 8-sporis; sporidiis ellipticis vel elliptico-ovatis, rectis v. leniter curvulis, medio 1-septatis, non v. vix constrictis, oculis horizontaliter et verticaliter 1-septatis, supero nonnihil crassiore brevioraque, utrinque obtusis, 10-11 = 5, hyalinis.

Hab. ad folia *Ilicis theezantis* in silva Borja prope Villa Rica Bras.

Fam. 7. **Lophiostomaceæ** Sacc.

Sect. 2. **Phæodidymæ** Sacc.

SCHIZOSTOMA Ces. et De Not. — Sacc. Syll. II, pag. 673.

- *1. **Schizostoma microsporum** Pass. in litt. Martelli in Flor. bog. 7343 pag. 146. — Peritheciis subgregariis, superficialibus, subglobosis, ostiolo lineari, compresso, ascis elongato-clavatis, basi longe attenuatis, 75 = 10, paraphysibus tenuissimis, numerosis, subæquantibus obvallatis, octosporis, sporidiis ellipsoideo-subfusiformibus, oblique monostichis, medio septatis, non vel vix constrictis, fuscis, 15 = 5.

Hab. in cortice arborum, Keren Africæ (BECCARI).

Sect. 3. **Hyalodidymæ** Sacc.

LOPHIOSPHÆRA Trev. — Sacc. Syll. II, p. 675.

- *2. **Lophiosphæra vigheffulensis** Passer. in Erb. Critt. Ital. Ser. II, 7344 n. 1373. — Peritheciis plus minus crebre sparsis, superficialibus, subglobosis, atris, ostiolo compresso vel sæpe papillulato; ascis clavatis, paraphysatis, 8-sporis; sporidiis biserialibus, fusiformibus, medio septatis et constrictis, 4-guttulatis, hyalinis, 25 = 5.

Hab. in cortice exsiccata *Deutzia scabræ* Vigheffo pr. Parma Ital. bor. (PASSERINI).

LOPHIOTRICHA Richon Sphær. Nouv. in Bull. Soc. Bot. Franc. 1885, p. XI (Etym. a *laphos* crista et *thria*; seta). — Perithecia simplicia, innato-superficialia, carbonacea, nigra, strigoso-pilosa, villo conco-

lori ad basim ut plurimum cincta, ostiolo compresso, cristato, setulis rectis obsito donata. Asci elongati, paraphysati, octospori. Sporidia disticha, fusioidea elongato-bilocularia, ad septum leniter constricta, hyalina.

1. **Lophiotricha Viburni** Rich. Sphær. Nouv. in Bul. Soc. Bot. Franc. 7345
1885, p. XII, tab. XII. — Peritheciis gregariis, irregulariter dispositis, basi ligno immersis, parte semilibera undique pilis striosis, nigro-fuscis, septatis, rectis obsita, ad basim subiculo fusco superficiali, laxe adhærenti cincta; ostiolo compresso, cristato, luculenter pilis ornato; ascis cylindræo-clavatis, breve stipitatis, octosporis; paraphysibus filiformibus continuis; sporidiis distichis, fusiformibus, biconoideo-elongatis, uniseptatis, ad septum leniter constrictis, pluriguttulatis, hyalinis.

Hab. ad ramos emortuos Viburni Lantanæ truncis muscosis productos, Soulanges prope Saint-Amand-sur-Fion Galliæ.

Sect. 4. Hyalophragmiæ Sacc.

LOPHIOTREMA Sacc. Syll. II, p. 679.

- *2. **Lophiotrema recedens** Schulz et Sacc. in Rev. Myc. 1884, Schulz. 7346
Ill. fung. Slav. n. 596. — Peritheciis gregariis, ligno penitus vel semi infossis globoso-depressis vel subangulosis, carbonaceis, intus pallidis, 0,4-0,5 mm. diam., ostiolo emergente, compressiusculo, plus minusve lato, rimoso; ascis cylindræis, paraphysatis, octosporis; sporidiis oblique tristichis, 7-septatis, 8-guttulatis, hyalinis.

Hab. in ramis decorticatis salicinis prope Vinkovec Slavoniæ. — A *Loph. aucto* et *L. appendiculato* certe diversum.

3. **Lophiotrema myriocarpum** (Fuck.) Sacc. Syll. II, p. 679, Winter in 5418
Hedw. 1886, p. 103. — Perithecia in ostiolum subangustatum, truncatum v. parum emarginatum ad latera subtumidum attenuata; asci 80-100 \approx 7-9; sporidia fusiformia, 3-septata, ad septa vix constricta, 24-30 \approx 3-4; paraphyses numerosæ, filiformes. — Sec. cl. Wint. sporidia sunt primum hyalina demum fusca et tum 5-septata, an ergo *Lophiostoma*?

- *5. **Lophiotrema pallidum** (Ell.) Berl. et Vogl. *Lophiostoma pallidum* 7347
Ellis in Torr. bot. Club. 1883, p. 52. — Peritheciis subhemisphæricis, 250 μ . diam., sursum collapsis, ostiolo leniter prominulo, non nimis compresso; ascis sessilibus, subcylindræis, 90-100 \approx 12-15, paraphysibus filiformibus; sporidiis non vel subdisti-

chis, oblongo-cylindræcis, subhyalinis, circiter 7-septatis, utrinque obtusis, leniter curvulis, una extremitate latiori, 18-24 \approx 5-6 $\frac{1}{2}$.

Hab. in ligno intemperiiis exposito Sorbi (service-tree) Attah Amer. bor. (HARKNESS).

- * 12. **Lophiotrema rubidum** Sacc. Rouss. et Bomm. in Misc. Myc. I, p. 18. — Peritheciis ligno (cortice secedente) superficie leniter cruentato semiimmersis vel basi infossis, subglobosis, compressiusculis, carbonaceis, nigris, $\frac{1}{2}$ mm. cr., ostiolo minuto, compresso, subinde subpapillato; ascis teretibus, filiformi-paraphysatis, 130 \approx 10, octosporis; sporidiis oblique 1-stichis vel distichis, fusiformibus, retis curvulisve, utrinque acutis, 25-30 \approx 6, 4-nucleatis, triseptatis leniterque constrictis, hyalinis, initio strato exiguo mucoso obstructis.

Hab. in sarmentis emortuis Rubi in Belgio. — Affine *Loph. præmorso*, a quo differt sporidiis 4-(nec 6-) nucleatis, matrice cruentata etc.

18. **Lophiotrema Scrophulariæ** (Peck) Sacc. Syll. II, pag. 683. *Var.* **cruentulum** Bizz. Fung. Ven. novi v. crit. p. 3. — Peritheciis in maculis longissimè effusis, dilute roseis, sparsis v. 2-3-aggregatis, immersis, intus albis; ostiolo minuto, compresso, epidermidem perforante; ascis cylindræcis, paraphysatis, 140-150 \approx 10-12; sporidiis monostichis, late fusoides, 3-septatis ad septa constrictis, 4-guttatis, 25-26 \approx 8, hyalinis.

Hab. in caulibus emortuis Lythri Salicariæ in provincia patavina Ital. bor. — A *Loph. rubido* differt peritheciis minoribus, sporidiis crassioribus, et magis constrictis.

- * 20. **Lophiotrema emergens** Karst. in Helw. 1883, n. 3, p. 42, Rev. atque Synop. Ascom. fenn. p. 85. — Peritheciis gregariis, emergentibus, sphaeroideis vel ovoideis, atris, 5 mm. circ. latis; sporidiis distichis, fusoides-elongatis, utrinque acutatis, curvulis v. subrectis, 2-5-plerumque 4-guttulatis vel spurie tenuiter 3-septatis, ad medium non constrictis, chlorinis, 26-33 \approx 5-7; paraphysibus gracilibus.

Hab. in cortice Populi putrescente Helsingforsie (W. NYLANDER). — Quoad partes internas cum *L. crenato* et *L. vagabundo* nonnihil convenit.

- * 33. **Lophiotrema Mollerianum** (Winter) Berl. et Vogl. *Lophiostoma Mollerianum* Winter Contr. Fl. Myc. Lus. V, pag. 17. — Peritheciis in macula exarida, grisea, anguste fusco-cincta, irregulari, hypophylla, sparsis, immersis, subglobosis, ostiolo compresso, in-

tegro, prominulo instructis, membranaceis, fusco-atris, 200–260 μ . diam.; ascis cylindræis, deorsum attenuatis, 78–88 \approx 9, octosporis, paraphysibus filiformibus, æquilongis obvallatis; sporidiis distichis, fusioideo biconicis, uniseptatis, ad septum profunde constrictis, hyalinis, 4-guttulatis, utrinque appendiculis brevissimis, rotundatis, 1 μ . longis præditis, 14–16 \approx 5.

Hab. ad folia viva *Quercus cocciferæ* prope Coimbra in Lusitania (MOLLER). — Macula aliena videtur. Ostiolum sub microscopio brevissime fimbriatum.

Sect. 5. Phæophragmiæ Sacc.

LOPHIOSTOMA (Fr.) Ces. et De Not. — Sacc. Syll. II, p. 689.

- *1. **Lophiostoma stenostomum** Ell. et Ev. in Tor. Bot. Club. 1883, 7351 pag 89. — Peritheciis sparsis, globosis, 250 μ . diam., fibris corticis tectis et eum ostiolo leniter compresso, perforantibus; ascis clavato-cylindræis, 75–90 \approx 6–7; paraphysibus filiformibus, copiosis; sporidiis distichis, fusiformibus, leniter curvis, luteolis, primo nucleatis et uniseptatis, demum 3-septatis, ad septa non vel vix constrictis, 18–22 \approx 3–3,5.

Hab. in cortice interiore truncorum *Vitis viniferæ*, Newfield Amer. bor.

- *2. **Lophiostoma Barbeyanum** Sacc. et Roum. in Rev. Myc. 1883, 7352 tab. 41, fig. 15. — Peritheciis e basi insculpta superficialibus, matrice non atrata, globoso-conicis, nitide atris, carbonaceis, $\frac{3}{4}$ mm. diam., ostiolo compressiusculo, angusto, subinde teretiusculo, dein pertuso; ascis tereti-fusioideis, breve stipitatis, paraphysatis, octosporis, 140 \approx 14; sporidiis distichis breve fusioideis, 3-septatis, ad septa constrictis, 30 \approx 9, fusco-melleis.

Hab. in ramis decorticatis *Sambuci nigræ*. — Ob ostiolum quandoque subrotundum, ad *Melanomma*, vergit.

- *6. **Lophiostoma Corni** Pass. Fung. Gall. nov. in Journ. d'Hist. nat. 7353 1885, n. 4, p. 54. — Peritheciis sparsis gregariisque, cortice nidulantibus, globosis, atris; ostiolo emergente, prominulo, compresso, subplano; ascis subclavatis, 90–95 \approx 10–11, 8-sporis; paraphysibus non visis; sporidiis distichis, oblongo-fusioideis, 30 \approx 8–10, rectis, utrinque acutiusculis, 3-septatis, interdum guttulatis, olivaceis, loculis binis interioribus plerumque saturatis coloratis.

Hab. ad ramos *Corni sanguinæ* prope Saintes (Charente Inferieure) Gallicæ (BRUNAUD).

- * 10. **Lophiostoma fallacissimum** Karst. in Hedw. 1884, n. 2, pag. 1. 7354
 — Rev. atque Synop. Ascom. fenn. p. 86. — Peritheciis ut plurimum confertis, cortice insculptis, ovoideo-sphæroideis, ostiolo minuto, nunc conoideo-truncato, nunc compresso, anguste lineari v. lunulato, 0,5-0,7 mm. circ. lat.; ascis cylindraceo-clavatis; sporidiis octonis, oblique monostichis, oblongatis, 3-septatis, junioribus crasse 4-guttulatis, medio constrictis, e luteolo fuscis, 25-40 = 10-12.

Hab. in cortice Tiliæ ulmifoliæ prope Aboam in Fennia.

- * 17. **Lophiostoma striatum** Sacc. Miscell. Myc. I, p. 7. — Peritheciis globulosis, hinc inde gregariis, $\frac{1}{3}$ mm. diam., cortice immersis, intus atro-cinereis, ostiolo erumpente, compresso, obtusiusculo; ascis tereti-clavatis breve stipitatis, 150-160 = 15-20, copiose filiformi-paraphysatis, octosporis; sporidiis oblique monostichis v. distichis, fusoideis, utrinque obtusiusculis, 3-septatis, medio constrictis, 38-40 = 11, 4-guttulatis, olivaceo-fuliginis, longitudinaliter tenuiter striatis. 7355

Hab. in ramis corticatis Rosæ caninæ, Saintes⁷Galliæ (BRUNAUD). — Sporidiis non muriculatis sed striolatis ab affini *L. Desmazierii* dignoscitur.

- * 18. **Lophiostoma floridanum** E. et E. in Journ. of Myc. 1886, p. 40. 7356
 — Peritheciis gregariis vel sparsis, hemisphæricis, atris, rugosis, circiter $\frac{1}{4}$ mm. diam., ostiolo lineari, laterali, vix prominulo; ascis clavatis, cylindraceis, 80 = 8, pedicellatis, paraphysibus filiformibus, copiosis obvallatis; sporidiis distichis, fusoideis, leniter curvulis, olivaceis, 4-nucleatis, uniseptatis, ad septum constrictis, 18-20 = 4-4 $\frac{1}{2}$, supra sentum inflatulis.

Hab. parasitice in stromatibus Diatrypes Stigma, Florida Amer. bor. — « An *Schizostoma?* ».

19. **Lophiostoma macrostomoides** De Not. — Sacc. Syll. II, p. 694. 5416
Var. eguttulatum Karst. in Hedw. 1884, n. 3, p. 42. — Sporidiis distichis, elongatis, leviter curvulis vel subrectis, utrinque vix v. leviter attenuatis, ad septa vix constrictis, eguttulatis, dilute fuscidulis, 27-35 = 7-9.

Hab. in cortice crassiore Salicis ad Mustiala Fennia.

27. **Lophiostoma simile** Nits. in Fuck. Symb. Myc. pag. 159, Sacc. 5417
 Syll. II, n. 5477. Hæc species, teste Winter (Cfr. Hdwigia 1886, p. 106), similis est *Lophiostomati subcorticali* Fuck. non *Lophiosphæra subcort.* form. *lignicolæ* Sacc. (Syll. II, n. 5408) quæ species nova, (**Lophiosphæra lignicola** Sacc.) habenda est. — *Var. so-*

rorium Kærst. in Hedwigia 1884, pag. 57: sporidiis oblongato-vel subellipsoideo-fusoideis, rectis, 6-7-septatis, 42-48 \approx 11-12.

Hab. ad corticem *Quercus* in par. Kyrkstätt Fennia.

*41. **Lophiostoma congregatum** Harkn. New Calif. Fungi p. 26. — 7357

Peritheciis latis, $\frac{3}{4}$ -1 mm. diam., semiimmersis, atris; ostiolo prominulo, $\frac{1}{4}$ - $\frac{1}{2}$ perithecio latitudinem æquante; ascis octosporis, clavatis, distichis. 70-12; sporidiis fusiformibus, curvis, 6-8-septato-constrictis, luteo-brunneis, loculis minute biguttatis, extimis pallidioribus.

Hab. in ramis decorticatis *Sambuci racemosæ*, Sierra Nevada Californiæ.

*43. **Lophiostoma Bommerianum** Sacc. et Roum. in Rev. Myc. 1883, 7358

tab. 41, fig. 16. — Peritheciis sparsis, e basi insculpta superficialibus, globoso-conicis, carbonaceis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. d., nigris ostiolo compressiusculo, angusto, subinde inæquali vel teretiusculo, dein pertuso; ascis elongatis (imperfecte visis); sporidiis distichis, fusoidis, inæquilateralibus, 70-80 \approx 20,9-10-septatis, non constrictis, fuliginis.

Hab. in cortice crassiore *Quercus*. — Ob ostiolum subinde inæquale ad *Trematosphaerium* vergit.

*56. **Lophiostoma roseo-tinctum** Ell. et Ev. in Journ. of Myc. 1885, 7359

p. 149. — Peritheciis gregariis, hemisphaericis vel subglobosis, subcarbonaceis, nigris rugosisque, $\frac{1}{3}$ mm. diam., ostiolo vix prominulo compresso, epidermide roseo-tincta, fuscescente primo tectis dein ea secedente liberis; ascis clavato-cylindræis, subsessilibus 100-112 \approx 13-15, paraphysibus filiformibus obvallatis; sporidiis cylindræo-fusiformibus, pallide luteis, distichis, 1-septato-constrictis, loculis crasse 4-5-guttatis, utrinque appendicula minuta, subglobosa præditis.

Hab. in caulibus emortuis *Staphyleæ trifoliæ* in Amer. bor. — «An *Lophiosphaera*?».

*61. **Lophiostoma papillatum** Pass. in litt. Martelli in Flor. Bog. p. 7360

146. — Peritheciis sparsis vel subgregariis globosis, basi matrici insculptis, ostiolo papillato, compresso, rima lineari dehiscente; ascis..... non visis; sporidiis oblongo-clavatis, apice rotundatis vel subacutis, basi longe attenuatis et apiculo hyalino terminatis, castaneo fuscis; 9-11-septatis, loculis præsertim superioribus guttatis, 40 \approx 7-5.

Hab. in corticibus vetustis, socio *Hysterographio gregario*, Keren in Abyssinia Afr. (BECCARI).

Sect. 6. Dictyosporæ Sacc.

LOPHIDIUM Sacc. Syll. II, p. 710.

5. **Lophidium compressum** (Pers.) Sacc. Syll. II, p. 711. *Var. micro-* 5331
sporium Karst. in Medd. af Soc. pro Faun. et Fl. Fenn. 11, 1884,
 p. 140, Rev. atque Synop. Ascom. fenn. pag. 84: peritheciis su-
 perfacialibus, conoideo-sphæroideis; sporidiis 15-18 \approx 5-6.

Hab. in ligno vetusto prope Jvalojoki in Lapponia Inarensi.

- * 5. **Lophidium pseudocompressum** Sacc. et Berl. in Rev. Myc. 1886, 7361
 p. 34, sub *L. subcompresso*. — Peritheciis primum tectis, dein
 epidermide secedente liberis vel globosis, ostiolo lato, sæpe cri-
 stato, rima longitudinali dehiscente instructo, 360 μ . diam.; ascis
 cylindræis, paraphysatis, sursum rotundatis breviterque stipita-
 tis, 110-125 \approx 10-12, octosporis; sporidiis oblique monostichis, crasse
 oblongo-ovoideis, 5-6-septatis, murali-divisis, ad septum medium
 parum constrictis, utrinque rotundatis vel subacutis, 22-25 \approx 10,
 fuligineis.

Hab. in caule putri Inulæ graveolentis, Algeria. — *L. compresso* affine, sed magnitudine ac fabrica sporidiorum, nec non matrice, distinctum.

- * 13. **Lophidium nuculoides** Sacc in litt. *Lophiotrema Nucula*, var. 7362
nuculoides Sacc. Syll. II, p. 680, *Lophiostoma Nucula* Rehm.
 Ascom. n. 481, *Lophiostoma nuculoides* Winter Die Pilze II,
 p. 306. — Peritheciis primitus plus minus immersis, demum emer-
 gentibus et sæpe superficialibus, globosis, submagnis, atris, ostiolo
 minuto, angusto, truncato; ascis cylindræis, subsessilibus, 8-sporis,
 150-160 \approx 16-17; sporidiis oblique monostichis, oblongis, medio pa-
 rum constrictis, utrinque rotundatis, transverse 5-septatis, in lon-
 gitudine sepimento uno imperfecto, demum fuscidulis, 24-26 \approx 10;
 paraphysibus filiformibus.

Hab. ad Populos, Augsburg Germaniæ.

20. **Lophidium fenestrale** (Cooke et Ell.) Sacc. Syll. II, p. 715, Ber- 5542
 lese Fungi Moric. fasc. II, n. 6, tab. 6, fig. 1-11. — Perithecia
 subsuperficialia, quandoque ligno immersa, sparsa, subglobosa, $\frac{2}{3}$ -1
 mm. diam., rugosiuscula, ostiolo lateraliter compresso, sæpe elon-
 gato donata; asci clavati, prælongi, crasse tunicati, apice foveo-
 lati, brevissime pedicellati, paraphysibus filiformibus crassiusculis
 obvallati, 210-220 \approx 24-27, octospori; sporidia subdisticha, raro ob-
 lique monosticha, obtusa, fusiformia, 11-15-septata, medio con-

stricta, oculis 3-4-septulis longitudinalibus divisis, 58-60 \approx 17-19, initio pallida, dein flavo-rufescentia, tandem fuliginea, opaca, juniora cribose guttulata, septo medio divisa, longiora, 60-64 \approx 18, hyalina.

Fam. S. Hemihysteriaceæ Speg. Fungi Guar. Pug. I, p. 258.

Perithecia simplicia vel stromatice aggregata, dimidiato-scutata, subiculo nullo vel plus minusve evoluto insidentia, ostiolo hysterioideo donata. Asci octospori. Sporidia (ad diem) didyma, fuliginea.

Clavis analytica Generum

Morenoëlla Perithecia estromatica, subiculo insidentia; asci ovoidei, aparaphysati.

Schneepia Stromata orbicularia; perithecia, linearia, radiantia; asci cylindracei paraphysati.

Hysterostomella Stromata irregulariter suborbicularia; perithecia dense irregulariterque constipata, difformia; asci ovati, aparaphysati.

MORENOËLLA Speg. Fungi Guar. Pug. I, p. 258 (Etym. a præclaro FRANCISCO MORENO Argentinae filio, naturæ sedulo perscrutatore). — Perithecia subiculo plus minusve evoluto insidentia, discoidea v. elliptica, hysterioideo-rimosa. Asci ovoidei, 8-spori, aparaphysati. Sporidia didyma, fusca. — Genus speciosellum distinctissimum, a *Lembosia* Lév. peritheciis dimidiato-scutatis recedens; species *Lembosiae* plurimæ facile huc transferendæ.

1. **Morenoëlla ampulluligera** Speg. Fungi Guar. Pug. I, n. 303. — Ma- 7363
culis nullis; subiculo parco, superficiali, subcrustaceo-velutino, orbiculariter expanso, 2-3 mm. diam., hinc inde sparso, epiphylllo, atro, ex hyphis cylindraceis, rectiusculis, laxe intricatis (5 μ . crass.), fuliginis, densiuscule ramulosis, ramulis conico-ampulluliformibus, 10 \approx 5, distichis, concoloribus ornatis composito; peritheciis in cæspitulibus subiculi laxè gregariis, ellipticis vel laxè subtrigonis, 150-200 \approx 100-120, dimidiato-scutatis, tenui membranaceis, atris, primo astomis, dein longitudinaliter rimose dehiscentibus, contextu eximie radiante prosenchymatico, margine integris, pellucidis, fumoso-atris; ascis paucis elliptico-ovatis, antice obtusissime rotundatis crasseque tunicatis, postice abrupte rotundato-coarctatis, brevissime pedicellatis, 30-35 \approx 15-18, aparaphysatis, 8-sporis; sporidiis di-tri stichis, ellipticis v. subovatis, medio 1-se-

ptatis, valide constrictis, loculis subæqualibus, utrinque obtusis, 12-13 \approx 5, rectis v. leniter curvulis, primo hyalinis, dein fuscis.

Hab. ad folia viva *Nectandra* spec. cujusdam in silvis prope Piragù Bras.

SCHNEEPIA Speg. Fungi Guar. Pug. I, p. 259 (Etym. a claro Doctore SCHNEEF guaranitici imperii scrutatore acutissimo). — Stromata superficialia, orbicularia, dimidiato-scutata. Perithecia in stromate dense constipata, linearia, radiantia, ostiolis hysteroideis, in centro stromatis sitis donata. Asci cylindræci paraphysati, 8-spori. Sporidia elliptica, didyma, fusca.

1. **Schneepia guaranitica** Speg. Fungi Guar. n. 304. — Maculis nullis; stromatibus epiphyllis, sparsis, superficialibus, orbicularibus 1,5-2 mm. diam., atris, radiatim densiuscule rugulosis, ambitu centroque tantum matrici adnatis, dimidiato-scutatis, medium versus ostiolis asperis, contextu parenchymatico, margine minutissime fimbriatulis; peritheciis dense constipato-radiatis (an loculis?), rectis v. leniter flexuosis, ovatis, sæpe vix divisus ac subconfluentibus, 450-500 \approx 150-200, centrum stromatis non attingentibus, pulpa ceracea, fuscidula repletis, ostiolis parvulis, hysteroideis, subradiantibus v. subconcentricis v. irregularibus, labiis tumidulis donatis præditis; ascis cylindræcis, apice truncato-rotundatis, crassissime tunicatis, unifoveolatis, deorsum breviter attenuatis, minute noduloseque stipitatis, 50-65 \approx 12-14, paraphysibus parcis, simplicibus obvallatis, 8-sporis; sporidiis distichis, elliptico-ovatis, utrinque obtusiusculis, 14 \approx 5, loculis subæqualibus, superiore vix crassiore brevioraque, minute 2-guttulatis, primo hyalinis, dein fuscidulis.

Hab. ad folia viva *Styracis* spec. cujusdam in dumetis convallis Ya-Kan Bras.

HYSTEROSTOMELLA Speg. Fungi Guar. Pug. I, p. 260 (Etym. *hystera* uterus et *stoma* ostiolum). — Stromata irregulariter suborbicularia, dimidiato-scutata. Perithecia in stromate dense irregulariterque constipata, difformia, ostiolis hysteroideis donata. Asci ovati v. subglobosi, 8-spori, aparaphysati. Sporidia ovata, didyma, fuliginea.

1. **Hysterostomella guaranitica** Speg. Fungi Guar. Pug. I, n. 305. — Maculis nullis; stromatibus epiphyllis sparsis, rarius aggregato-confluentibus, superficialibus, irregulariter suborbicularibus, 1,5-2 mm. d., atris, glabris, ambitu sinuosulo-undulato, minute rugulosis, dimi-

diato-scutatis, membranaceo-coriaceis, subfragilibus, contextu indistincto, opaco; peritheciis stromate inuatis, tunica propria deficientibus, elliptico-diformibus, sæpe confluentibus, pulpa gelatinosa, fusca faretis, ostiolis hysterioideis, in stromate prominulis, parvulis donatis; ascis ovatis, sursum crassiuscule tunicatis, deorsum attenuatis, pedicello crasso, parvulo præditis, 45-55 \approx 25-35, paraphysatis, 8-sporis; sporidiis conglobatis, ovatis utrinque obtusiusculis, 24-28 \approx 10-15, medio 1-septatis, constrictis, oculis subæqualibus, granulosis non vel crasse 1-guttulatis, supero nonnihil majore obtusioreque, primo hyalinis, dein fuliginis.

Hab. ad folia viva Euphorbiaceæ arboreæ cujusdam in silvis subvirgineis prope Mbatobi Bras. — Tunica ascorum per ætatem sæpius chlorinula evadit.

Fam. 9. Hysteriaceæ Corda.

Sect. 1. Hyalospore Sacc.

BRIARDIA Sacc. in Rev. Mycol. 1885 (Etym. ab experto et solerti mycologo M. BRIARD hujus generis detectore). — Perithecia erumpenti-superficialia, elongato-lineararia, initio molliuscula (fusco-succinea), rima lineari dehiscentia, margine (sub microscopio) eximie fimbriato; nucleo rubescente; contextu minute parallele parenchymatico. Asci erecti cylindracei, paraphysati, octospori. Sporidia oblonga, continua, hyalina. Natura perithecii a *Schizothyrio*, sporidiis continuis ab *Angelina* mox distinctum genus.

1. **Briardia compta** Sacc. in Rev. Mycol. 1885, tab. LV, f. 9. — Peritheciis parallele seriatis, linearibus, $\frac{1}{2}$ -1 mm. long., $\frac{1}{5}$ mm. cr., e succineo rufo-fuscis, levibus, latiuscule hiantibus, margine pallidore, involuto exquisite fimbriatis; nucleo roseo; ascis teretiusculis, breve stipitatis, octosporis, 40-48 \approx 7-8; paraphysibus bacillaribus, sursum clavulatis, asco paulo longioribus; sporidiis monostichis, oblongis, utrinque obtusiusculis, 10-11 \approx 5, continuis, hyalinis.

Hab. in caule emortuo Galii, Troyes Galliæ (BRIARD).

Sect. 3. Hyalodidymæ Sacc.

AULOGRAPHUM Lib. — Sacc. Syll. II, p. 727.

- * 1. **Aulographum reticulatum** Phyll. et Harkn. New Calif. Fungi p. 8. — Ovatum, adnato-superficiale, reticulatum sparsum, labiis subti-

libus; ascis piriformibus; sporidiis obovatis, uniseptatis, hyalinis, 14 = 4.

Hab. in pagina inferiore foliorum *Quercus agrifoliæ* in California.

- *2. **Aulographum Lituræ** Cooke in *Grevillea* XII, p. 38. — Epiphyllum; maculis orbicularibus, fuscis; peritheciis linearibus, curvulis rectisve, atris, in maculis insidentibus; labiis conniventibus; ascis saccatis; sporidiis biglobosis, uniseptatis, fuscis, 7,5 = 3,5. 7368

Hab. in foliis *Quercus aquaticæ*, Texas in Florida (RAVENEL). — «An *Lembosia*?».

- *3. **Aulographum acicolum** Harkn. *New Calif. Fungi* pag. 26. — Peritheciis oblongis, circinatim dispositis, in maculis pallidis, applanatis, semiimmersis, rima longitudinali, apertis, 1/2-1 mm. longis; ascis globosis, octosporis, 25 µ. diam.; sporidiis oblongo-ovatis vel fusiformibus, 1-septato, constrictis, hyalinis, dein brunneis. 7369

Hab. in foliis vivis *Pini Sabinianæ* in Monte Diablo Californiæ.

- *8. **Aulographum lucens** Harkn. *New Calif. Fungi* pag. 26. — Peritheciis applanatis, 1/2-1 mm. longis, rima longitudinali apertis, in maculis parum decoloratis sparsis; ascis ovatis, 8-sporis, 37 = 28; sporidiis oblongis, utrinque rotundatis, 1-septatis, septo vix constrictis, loculis crasse uniguttulatis, hyalinis, tandem brunneis, 21 = 10. 7370

Hab. in sarmentis vivis *Garryæ ellipticæ*, Tamalpais Californiæ.

- *10. **Aulographum cæspitosum** E. et E. in *Journ. of Myc.* I, p. 151. — Peritheciis minutis, 1/4 mm. vel minus longis, applanatis, poro lato pertusis, basi setis brunneis, repentibus cinctis; ascis ovatis, sessilibus, 30 = 15; sporidiis stipatis, oblongo-fusiformibus, obtusis, hyalinis et uniseptatis, dein brunneis, sæpe 3-septatis, 15-20 = 3,5, ad septa constrictis. 7371

Hab. in ligno decorticato *Cupressi*, Louisiana Amer. bor. (PROF. F. L. SCRIBUER). — «An *Hysterium*?».

12. **Aulographum maculare** B. et Br., *Saccardo Syll.* II, pag. 730. — Asci subglobulosi, basi apiculati, 30 = 20; sporidia didyma, 10-12 = 5, hyalina. 5578

20. **Aulographum Arundinariæ** Cooke in *Grevillea* XIV, pag. 14. — Peritheciis erumpentibus, demum superficialibus, gregariis, linearibus, rectis, plerumque longitudinaliter confluentibus, labiis arcuatis, atris, subnitidis, 1-2 mm. long.; ascis piriformibus, octosporis; 7372

sporidiis subellipticis, deorsum attenuatis, uniseptatis, nec constrictis, hyalinis, 13-15 \approx 5.

Hab. in culmis Arundinaricæ, Darien Georgia Amer. bor. (RAVENEL).

GLONIUM Mühl. — Sacc. Syll. II, p. 731.

*1. **Glonium tryblidioides** Ell. et Ev. in Torr. Bot. Club. 1883, p. 76. 7373

— Peritheciis emergentibus, oblongis, utrinque obtusis, 1-2 mm. longis, 0,5-0,75 mm. latis, labiis incurvatis, levibus, distantibus, discum fuligineum, constanter expositum relinquentibus; ascis clavato-cylindræis, sessilibus, 80-90 \approx 9-12, paraphysibus dense coalitis, compactis, apice obscurioribus, discum fuligineo colorantibus obvallatis; sporidiis monostichis vel sursum subdistichis, ovatis, uniseptatis, hyalinis, 12-16 \approx 5-7.

Hab. in rostello vetusto (*fence-rails*) Washington Amer. bor. (W. N. SUKSDORF).

Sect. 4. Phæodidymæ Sacc.

TRYBLIDIUM Duf. — Sacc. Syll. II, p. 740.

*1. **Tryblidium guaranicum** Speg. Fungi Guar. Pug. I, n. 306. — 7374

Erumpenti-innatum, hinc inde irregulariter v. seriatim dense congestum, atro-fuscum; peritheciis lineari-elongatis, e mutua pressione sæpissime flexuosis, trigonis v. subcupulato-polygonis, majusculis, 1-3 mm. 0,5 mm. latis, labiis tumidis, obtusis, costato-rugosis v. sublevibus, fuscis, plus minusve laxe conniventibus (in formis polygonis latiuscule apertis), involutis donatis, coriaceis, duris; ascis cylindræis, antice rotundatis crassiusculeque tunicatis, postice attenuato-pedicellatis, 130-140 \approx 10, 8-sporis, paraphysibus hyalinis, densissimis, apice fusco-coalescentibus, longioribus immersis; sporidiis recte monostichis, ellipticis, utrinque obtusiusculis, 23-25 \approx 8-10, medio 1-septatis, constrictis, rectis vel leniter inæquilateralibus, loculis æqualibus, non v. crasse 1-guttulatis, primo hyalinis, dein opace fuligineis.

Hab. ad cortices muscosos truncorum putrescentium in silvis prope Guarapí Bras.

*3. **Tryblidium turgidulum** Phill. et Harkn. New Calif. Fungi p. 5. 7375

— Sparsum, sessile, oblongo-ellipticum, turgidum, leviusculum, nigrum; ascis clavatis; sporidiis oblongo-ellipsoideis, uniseptatis, cen-

tro fortiter constrictis, 5-6 medio pseudoseptatis, rufo-brunneis, 60-90 \approx 13-20.

Hab. in caulibus emortuis *Pentatemonis breviflori* in California.

LEMBOSIA Lév. — Sacc. Syll. II, p. 741.

*1. **Lembosia graphioides** Sacc. et Berl. Misc. Myc. II, pag. 6. — 7376

Peritheciis epiphyllis, gregariis, lineari-oblongis, subinde furcatis, $\frac{1}{2}$ - $\frac{1}{8}$ mm., atris, carinulatis; subiculo obsoleto; ascis oblongo-clavatis, sessilibus, 40-45 \approx 12-14, 6-8-sporis, crasse tunicatis, apapophysatis; sporidiis distichis, inæqualiter didymis, loculo infero minori, 12-14 \approx 6, dilute fuligineis.

Hab. in foliis languidis *Oleæ paniculatæ*, Logan Australiæ. — Facies *Aulographi*.

*2. **Lembosia orbicularis** Wint. in Hedw. 1885, p. 29. — 7377

elongatis, utrinque acutis, plerumque varie irregulariterque curvatis vel subcontortis, labiis conniventibus, subnitide atris, in maculis suborbicularibus, atris, opacis, distincte limitatis, plerumque epiphyllis, e fibrillis ramosissimis, fuscis densissime coalitis, oculo armato tantum perspiciendis formatis, sæpe confluentibus, 1-2 mm. lat., superficialibus; ascis e basi parum latiori oblongis, sessilibus, crasse tunicatis, 8-sporis, 60-70 \approx 19-23; paraphysibus tenuibus, ascos parum superantibus; sporidiis inordinatis, oblongo-subcylindricis, utrinque parum attenuatis et rotundatis, medio uniseptatis, subconstrictis, primo hyalinis, demum dilute fuscis, 24-26 \approx 8-9.

Hab. ad *Eucalypti pilularis* folia subviva in Australia (MÜLLER).

*3. **Lembosia diffusa** Wint. in Hedw. 1885, p. 30. Sacc. et Berl. in 7378

Rev. Myc. 1885, t. LIV, f. 9. — Mycelio in maculis purpureo-fuscis, indeterminatis, epiphyllis radiatim effuso, e fibris laxè ramosis, ramis primariis distantibus, ramulis tenuioribus numerosis, intricatis præditis constante, maculas fusco-atras, rotundatas vel irregulares, usque 10 mm. latas formante; peritheciis sparsis, præcipue centro macularum insidentibus, primo punctiformibus, demum elongatis, lanceolatis, utrinque acutis, plerumque rectis, opacis, atris, labiis conniventibus, basi hyphis radiantibus cinctis; ascis subglobosis v. ellipticis, sessilibus, 8-sporis, 45-65 \approx 30-38; paraphysibus filiformibus, sursum subclavatis; sporidiis conglobatis, oblongis, utrinque rotundatis, medio uniseptatis constrictisque, fuscis, 26-28 \approx 12.

Hab. ad folia viva Melastomacearum speciei adhuc indeterminatæ, prope S. Francisco in Brasilia (E. ULE). — «Subinde hyphæ mycelii adsunt taxiformi-ramosæ, qua nota ad *Lembosiam Melastomatum* accedit species a qua tunc verisimiliter *L. diffusa* Wint. non satis differt».

- *4. **Lembosia congesta** Winter Exot. Pilze in Flora 1884, p. 9. — Ra- 7379
mulicola; peritheciis densissime congregatis, maculas atras, opacas, rotundato-irregulares, usque 4 mm. latas, compactas formantibus, elongatis, sæpe curvatis flexuosisque, utrinque attenuatis, rima longitudinali, demum pervia præditis, atris; hyphis in centro macularum non distinctis, in ambitu modo discretis sed parcis, radiantibus, parum ramosis, remote septatis, fuscis; ascis oblongo-clavatis, demum in stipitem brevem attenuatis, 8-sporis, 60-70 \approx 21-26; sporidiis inordinatis seu subdistichis, oblongis, uniseptatis, ad septum constrictis, maturis fuscis, 17-18 \approx 7-9; paraphysibus filiformibus, apice plerumque bicipitibus, fuscidulis, plus minusve conglutinatis.

Hab. ad Carissæ arduinæ ramulos juniores in Promontorio Bonæ Spei Afr. austr. (MAC-OWAN).

Sect. 5. Phæophragmiæ Sacc.

HYSTERIUM Tode. — Sacc. Syll. II, p. 743.

- *1. **Hysterium Eucalypti** Phill. et Hark. in Grevillea XIII, p. 23. — 7380
Sparsum vel gregarium, 500 μ . long., minutum, ellipticum, rarissime striatum, erumpens, sessile; labiis clausis, tumidis; ascis clavatis; sporidiis biseriatis, oblongis, plus minusve curvatis, tri-septatis, fuscis, 16-20 \approx 4-6.

Hab. in cortice Eucalypti in California (HARKNESS).

TRYBLIDIELLA Sacc. Syll. II, p. 757.

- *1. **Tryblidiella clavispора** (Peck) Berl. et Vogl. *Tryblidium cla-* 7381
væsporum Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, p. 143. — Peritheciis suborbicularibus, planis vel leniter convexis, marginatis, 800-1000 μ . diam., nigris, quandoque siccis vel contractis, hysteriiformibus labisque clausis; ascis clavatis vel cylindræis, 85-110; sporidiis oblongo-clavatis, stipatis vel biseriatis, 4-septatis, 23-27 \approx 8-10, fuscis.

Hab. in ligno decorticato Salicis nigræ, Albany Amer. bor.

RHYTHYSTERIUM Speg. — Sacc. Syll. II, p. 759.*1. **Rhytidhysterium Scortechinii** Sacc. et Berl. Misc. Myc. II, p. 7. — 7382

Peritheciis sparsis, superficialibus, oblongo-elongatis, 1,5-2 \approx 0,6-0,7 mm., subcoriaceis, rima lineari, latiuscula, discum rubro-fuscum revelante exaratis, labiis tumidulis, crebre et eximie transverse striato-sulcatis, nigricantibus; ascis teretiusculis, paraphysatis, 180-200 \approx 12-14, octosporis; sporidiis oblique monostichis, oblongis, utrinque obtusiusculis, 3-septatis, leniter constrictis, 25-27 \approx 12, fuligineis, demum opacis.

Hab. in ramis corticatis arborum, Teviot Australiæ.

MYTILIDION Duby. — Sacc. Syll. II, p. 760.1. **Mytilidion aggregatum** (D. C.) Duby. Sacc. Syll. II, p. 760. *Var.* 5701

intricatissimum Karst. Fung. Fenn. atque Sib. in Medd. Soc. pro Faun. et Flor. fenn. II, 1884, p. 141 et Rev. Mon. p. 103. — Peritheciis superficialibus, sessilibus, elongatis, flexuosis, in cæspites rotundatos, magnos, 1-2 cm. latos, varie connatis, carbonaceis, fragilibus, subopacis, leviusculis, atris, rimula angusta.

Hab. in cortice radice Piceæ excelsæ in monte Hidenvaara par Kuhmo Fennicæ (VAINIO).

*1. **Mytilidion insulare** Sacc. in Barbey Fl. Sard. Comp. p. 246. — 7383

Peritheciis dense, parallele gregariis, mytiliformibus, acutiuscule carinatis et angustissime rimosis, atris, basi leniter coarctatis, $\frac{3}{4}$ -1 mm. long., $\frac{1}{4}$ mm. crass., carbonaceis; ascis tereto-clavatis, breve stipitatis, 70-80 \approx 14-15, paraphysatis, 8-sporis; sporidiis distichis, tereti-fusoideis, utrinque obtusis, rectiusculis, 22-25 \approx 5,5-6,5, 5-6-septatis, ad septa vix constrictis, ochraceo-fuligineis.

Hab. in ligno superficie atrato, induratoque prope Cagliari Sardinicæ (MARCUCCI). — Affine *M. aggregato*, sed sporidiis obtusis, 5-6-septatis (nec 3-septatis) mox distinctum.

Sect. 6. Hyalophragmiæ Sacc.**GLONIELLA** Sacc. Syll. II, p. 765.*2. **Gloniella Scortechiniana** Sacc. et Roum. in Rev. Myc. 1883, 7384

tab. 41, fig. 17. — Peritheciis gregariis, sæpius parallele seriatis, elongatis, sæpius rectis, depressis, carbonaceis, nigris, vix 1 mm. longis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. latis, rima angusta deliscentibus; ascis cylindraceis, 100 \approx 10, breve stipitatis, paraphysatis, octosporis; sporidiis

oblique 1-stichis, ellipsoideo-oblongis, utrinque rotundatis, 16-18 \simeq 7, 3-septatis, ad septa constrictis, hyalinis.

Hab. in ligno putri quercino (?). — *Gloniellæ ovatae* et *G. hyalinæ* affinis species.

- *9. **Gloniella syconophila** (Cooke) Berl. et Vogl. *Hysterium syconophilum* Cooke in Grevillea XIV, p. 14. — Peritheciis gregariis, lanceolatis, rectis vel flexuosis, atris, emergentibus, rimula longitudinali, angusta notatis; ascis subclavatis, octosporis; sporidiis sublanceolatis, multinucleatis, demum quinqueseptatis, hyalinis, 36-40 \simeq 8-10. 7385

Hab. in corticibus vivis Fici Caricæ in Carolina inf. (RAVENEL).

- *11. **Gloniella Hakeæ** Penz. et Sacc. Funghi Mort. pag. 8, tab. IV, fig. 3. — Peritheciis laxè gregariis, minutissimis, superficialibus, sæpius duobus vel tribus conglutinatis, ellipticis, aterrimis, rima longitudinali apertis; ascis saccato-clavatis, dense congestis, brevissime et crasse stipitatis, 25-28 \simeq 9-11, paraphysibus filiformibus, apice vix incrassatis, ascos æquantibus; sporidiis octonis, in asco distichis, oblongis, utrinque rotundatis, triseptatis vel 4-guttulatis, ad septa vix constrictis, 12-14 \simeq 3-3,5, hyalinis. 7386

Hab. in foliis delapsis, putrescentibus Hakeæ eucalyptoidis, Mortola (PENZIG). — Affinis *Glon. perexiguæ* a qua præcipue sporidiorum forma magnitudineque ascorum distinguenda.

- *14. **Gloniella Holoschœni** (De Not.) Rehm in litt. *Propolis Holoschœni* De Not. in Erb. Critt. It. ser. II, n. 439. — Erumpens, atra, in sicco hysteriiformis, madore reclusa, oblongata, disco fusco; peritheciis crassiusculis, subprismaticis, oblongatis, basi nempe carinatis, margine utrinque ad angulum fere rectum inflexis; ascis clavatis, 8-sporis; paraphysibus coalescentibus, apice infuscatissimis; sporidiis fusoideis, 25 μ . longis, junioribus nucleolis 2-4-fœtis, demum 4 locularibus, loculis polaribus mediis multo minoribus, hyalino-luteolis. 7387

Hab. in culmis aridis Scirpi Holoschœni, Parma Ital. bor.

Sect. 7. Hyalodictyæ Sacc.

GLONIOPSIS De Not. — Sacc. Syll. II, p. 773.

2. **Gloniopsis biformis** (Fr.) Sacc. Syll. II, pag. 773. *Var. provecta* Karst. in Hedw. 1884, pag. 19 et Rev. Mon. pag. 100. — A 5744

typo differt sporidiis majoribus, nempe 20-24 \approx 9-10, ad septum medium non constrictis ascisque oblongatis, crassioribus, 90 \approx 27.

Hab. in ligno denudato Quercus in regione Aboënsi, Fenniae.

- *7. **Gloniopsis Loniceræ** (Phill. et Hark.) Berl. et Vogl. *Hysterium* 7388

Loniceræ Phill. et Hark. in Grevillea XIII, pag. 23. — Sparsa vel gregaria, elliptica vel oblongo-lanceolata, 500-1200 μ . long. parallela, prominula, striata vel levis, labiis prominulis, maturitate apertis; ascis cylindraceo-clavatis, octosporis; sporidiis ellipticis v. subpiriformibus, muriformibus, hyalinis, plerumque gelatinâ involutis, 20-30 \approx 7-11; paraphysibus indistinctis.

Hab. in ramis decorticatis Loniceræ in California (HARKNESS). 5750

8. **Gloniopsis australis** (Duby) Sacc. Syll. II. pag. 774. ***G. vinealis**

Sacc. et Br. Miscell. Myc. II. p. 23, n. 101. — Peritheciis elongatis, utrinque rotundatis, 1- $\frac{1}{4}$ mm., atris, rima latiuscula exaratis; ascis clavatis, breve stipitatis, paraphysatis, 68-76 \approx 24-28; sporidiis distichis, rectis curvulisve, ovato-oblongis, 24-28 \approx 10, 5-septato-muriformibus, hyalinis.

Hab. in ligno quercino indurato, Troyes Galliae (BRIARD).

- *11. **Gloniopsis insignis** (Cooke et Hark.) Berl. et Vogl. *Hystero-* 7389

graphium insigne Cooke et Harkness in Grevillea XIV. p. 10. — Peritheciis gregariis, erumpentibus, ovalibus vel ellipticis, $\frac{1}{2}$ -1 mm. long., atris, subnitidis, labiis arcute conniventibus; ascis clavatis, octosporis; sporidiis lanceolatis, utrinque acuminatis, medio constrictis, 5-7-septatis, muriformibus, hyalinis, 20 \approx 10.

Hab. in ligno Acaciae in California (HARKNESS).

Sect. 8. Phaeodictyae Sacc.

HYSTEROGRAPHIUM Corda — Sacc. Syll. II, p. 776.

- *1. **Hysterographium prominens** (Phill. et Hark.) Berl. et Vogl. *Hy-* 7390

sterium prominens Phill. et Harkn. New Calif. Fungi p. 5. — Sparsum, prominulum, oblongo-ellipticum, leve, raro striatum; ascis late clavatis; sporidiis fusiformibus vel oblongo-fusoideis, curvis vel rectis, uniseptatis, ad septum constrictis, muriformibus, brunneis, 30-48 \approx 7-10.

Hab. in ramis Salicis lasiolepis in California.

- *2. **Hysterographium Ceanothi** (Ph. et Hark.) Berl. et Vogl. *Hyste-* 7391

rium Ceanothi Phill. et Hark. in Grevillea XIII, pag. 83. — Sparsum, sessile vel subimmersum, ovale, dein lanceolatum, leve, glabrum, nitidum, atrum; labiis prominulis, arcute conniventibus; ascis

late clavatis, tetrasporis; sporidiis muriformibus, oblongo-lanceolatis, utrinque obtusis, fuscis, $40 \approx 14-15$; paraphysibus adhærentibus.

Hab. in caulibus *Ceanothi* in California (HARKNESS). — Sæpe sporidia mucò obvoluta sunt.

- *3. **Hysterographium Beccarianum** Pass. in litt. Martelli in Flor. Bog. 7392
pag. 146. — Peritheciis gregariis, fragilibus, superficialibus, atris, opacis, rectis vel raro curvis, labiis tumidulis, inflexis, conniventibus, levibus; ascis oblongo-clavatis, inferne attenuatis, paraphysibus filiformibus obvallatis, $100-125 \approx 10-12$, octosporis; sporidiis monostichis, ellipticis vel ovatis, primo triseptatis, melleis, dein septemseptatis, muriformibus, fuscis, $17,5 \approx 7-8$, ad septa non constrictis.

Hab. in corticibus vetustis, Keren Abyssiniæ (BECCARI).

- *4. **Hysterographium gregarium** Pass. in litt. Martelli in Flor. Bog. 7393
pag. 146. — Peritheciis oblongis, superficialibus, atris, levibus in greges coadunatis, rectis vel raro flexuosis, labiis conniventibus; ascis paraphysatis, oblongo-clavatis, basi longe attenuatis, octosporis, $75-95 \approx 12-15$; sporidiis distichis, linguæformibus, primo ex hyalino luteolis, triseptatis, dein fuscis, 8-9-septatis, adiectis septis longitudinalibus plus minus obscuris sed satis perspicuis.

Hab. ad cortices vetustos, Keren Abyssiniæ (BECCARI).

- *5. **Hysterographium affine** Pass. in litt. Martelli in Flor. Bog. p. 147. 7394
— Fructificatione *Hysterographio gregario* simile, sed peritheciis sparsis, brevibus, subglobosis; sporidiis brevius ovoideis, $20 \approx 7,5$.

Hab. in corticibus, Keren Abyssiniæ (BECCARI).

- *6. **Hysterographium pachyascum** Berl. Fungi Moric. Fasc. II, tab. 7, 7395
fig. 1-7. — Peritheciis subgregariis, atris, carbonaceis, linearibus v. demum subinde patellæformibus, $1-1\frac{1}{2}$ mm. longis, $\frac{1}{4}$ mm. latis (valvis clausis); ascis late clavatis, sursum rotundatis, basi attenuatis breviterque stipitatis, paraphysibus densis, sursum brunneolis cinctis, $60-70 \approx 15-20$, octosporis; sporidiis subtristichis v. distichis, oblongo-ovoideis, primum cribrose guttulatis, hyalinis, dein 6-7-septatis, loculis septulo longitudinali divisis, fuscis, $25 \approx 10$.

Hab. in ligno semiputri Mori albæ, Vaucluse Galliæ, sociâ *Zignoëllâ Mori*.

14. **Hysterographium hiascens** Rehm. Sacc. Syll. II, pag. 680. *H. 5771
macrum Sacc. et Berl. Misc. Myc. II, p. 7. — Peritheciis elongato-linearibus, rectiusculis, parallelis, $1-1,5 \approx 0,3$ mm., atris, rima angusta incis, labiis macris; ascis clavatis, breve stipitatis, pa-

raphysatis, 90-100 \approx 25-30, octosporis; sporidiis subdistichis, oblongo-subfusoidis, 25-30 \approx 8-10, 6-8-septato-muriformibus, medio constrictis, olivaceis.

Hab. in lignis putridis, Logan Australiæ.

Sect. 9. Scolecosporæ Sacc.

HYPODERMA D. C. — Sacc. Syll. II, p. 784.

- *1. **Hypoderma Oleæ** Thüm. Pilz. d'Ælb. pag. 34. — Peritheciis in foliorum pagina superiore subgregariis, solitariis vel interdum confluentibus, rotundis vel ovatis, nigrescentibus, labiis depressis; ascis clavatis, breve stipitatis, 75-95 \approx 10-12, octosporis; sporidiis fusiformibus, curvulis, nucleatis, hyalinis, 20-24 \approx 3-4.

Hab. in foliis emortuis Oleæ europææ in Austria. — *Hypodermati Hederæ* proximum.

- *3. **Hypoderma Eucalypti** Cooke et Harkn. in Grevillea XIII, p. 21. — Epiphyllum gregarium; peritheciis lanceolatis linearibusque, erumpentibus, atris, opacis, labiis rotundatis, laxè conniventibus; ascis clavatis; sporidiis inordinatis, elongato-fusiformibus, continuis, hyalinis, 30 \approx 3.

Hab. in foliis Eucalypti in California (HARKNESS).

- *10. **Hypoderma Heteromelis** Phill. et Harkn. in Grevillea XIII, p. 23. — Gregarium, oblongum; peritheciis rectis vel curvulis, applanatis vel leniter elevatis, 400-800 μ . long.; ascis cylindræis; sporidiis filiformibus, 65 \approx 2; paraphysibus filiformibus.

Hab. in foliis Heteromeles arbutifoliæ in California (HARKNESS).

LOPHODERMIIUM Chev. — Sacc. Syll. II, p. 791.

- *13. **Lophodermium leptothecium** Speg. Fungi Guar. Pug. I, n. 307. — Maculis nullis v. indeterminatis fusciscentibus, centro pallidioribus v. albicantibus; peritheciis epiphyllis, laxè maculis insidentibus, linearibus, ellipticis vel elliptico-elongatis, rarius trigonis, rectis v. leniter flexuosis, 450-600 \approx 250-300, adnato-superficialibus, atris, levibus, subnitentibus, glabris, longitudinaliter rimosis, labiis acute conniventibus, tenuibus, integris, membranaceo-coriacellis, contextu atro, subopaco, peripherico crasse, centrali minute parenchymatico; ascis clavato-filiformibus, sursum obtuse acutatis crassiusculeque tunicatis, deorsum longe leniterque attenuatis, 100 \approx 4, 8-sporis, paraphysibus filiformibus, simplicibus nonnihil longioribus apice rectis v. flexuosis, non vel vix incrassato-erosulis

obvallatis; sporidiis filiformibus, rectis v. leniter flexuosis, utrinque subattenuatis, obtusiusculis, $70-75 \approx 0,7-0,8$, crasse multiguttulatis, hyalinis.

Hab. ad folia dejecta, exsiccata vel putrescentia Laurineæ cujusdam in silvis prope Guarapi Bras. — Species *Loph. maculari* affinis, sed certe satis diversa.

- * 16. **Lophodermium Dracænæ** Phill. et Harkn. in Grev. XIII, tab. 3. — 7400
 Sparsum, ellipticum vel ovatum, 300-800 μ . long., superficiale, deciduum, glabrum, atrum, labiis adhærentibus, demum apertis hiantibusque; ascis cylindraceutis, octosporis; sporidiis filiformibus, hyalinis, $70-85 \approx 1-2$, paraphysibus filiformibus, ad apicem dichotomis.

Hab. in Dracæna in California (HARKNESS).

ACROSPERMUM Tode. — Sacc. Syll. II, p. 807.

- * 1. **Acrospermum Robergeanum** Desm. Ann. des Sc. Nat. ser. 3, 7401
 t. XVI et Cooke in Grev. XII, p. 101. — Sparsum, minutum, clavatum, cylindricum, brunneo-pallidum, apice et basi albidum, siccum nigrescens, complanatum; ascis cylindraceutis, longissimis, tenuibus, octosporis, 250 μ . longis; sporidiis parallele stipatis, filiformibus, ascis longitudine subæquantibus, hyalinis.

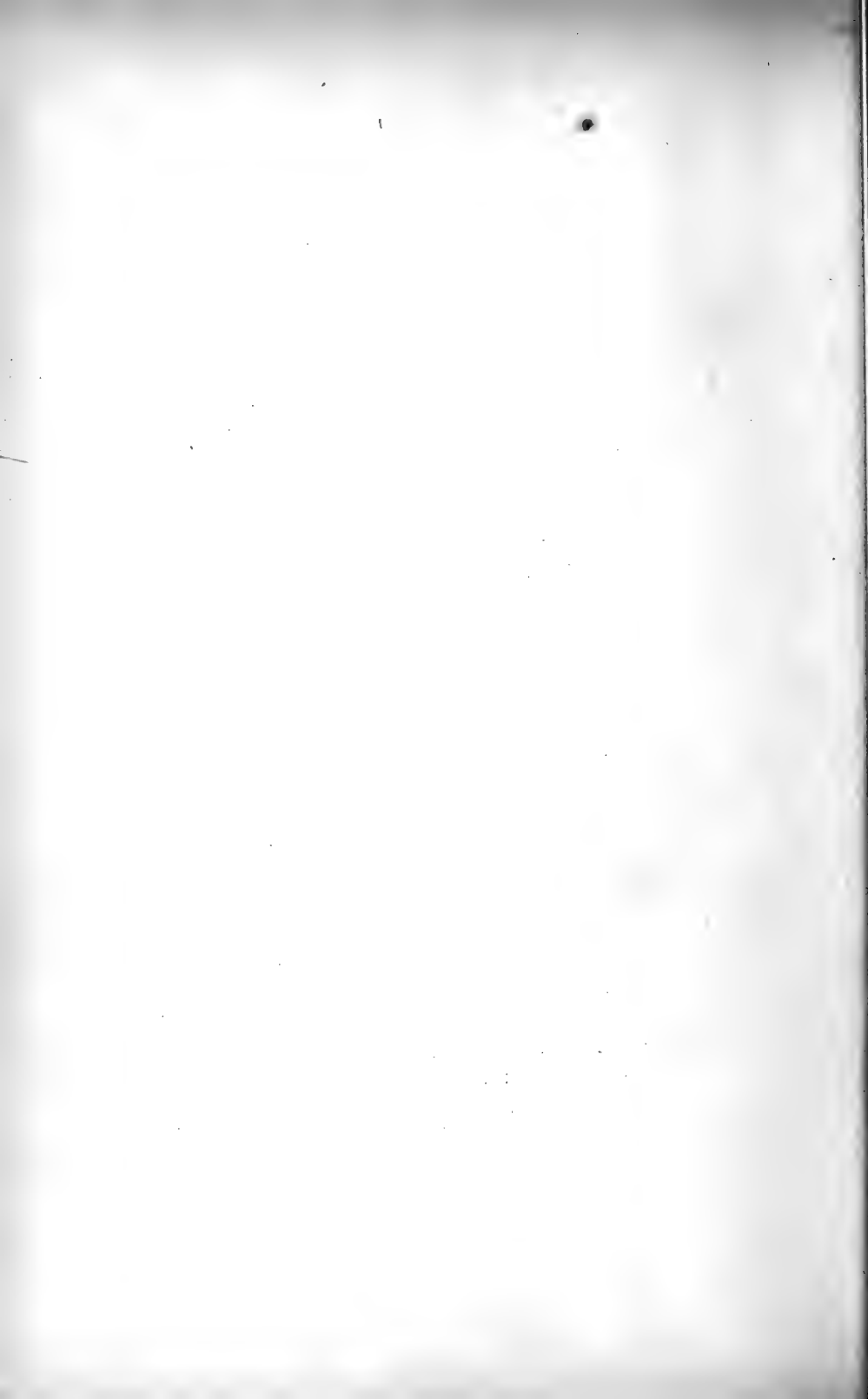
Hab. in foliis semiputridis Corni sanguineæ in Gallia.

- * 2. **Acrospermum gracile** Corda Ic. fung. III, pag. 28, fig. 75. — 7402
 Peritheciis clavatis, stipitatis, glaberrimis, nitidis, violaceo- v. rufofuscis, basi subbulbosis, subinclinatis, acuminatis; nucleo albo; sporidiis filamentosis, tenuissimis, guttulatis, $1-1,4 \mu$. crassis.

Hab. in caulibus putridis *Adenostylis albifrontis* in Riesengebirge Bohemiæ.

- * 6. **Acrospermum fultum** Harkn. New Calif. fungi pag. 26. — Peri- 7403
 theciis cuneiformibus, gregariis, $1-1\frac{1}{2}$ mm. longis, transverse striatis, basi erismæ ad instar formata suffultis mycelioque radiculoso insidentibus; ascis octosporis, cylindraceuto-clavatis, in stipitem gracilem, longum attenuatis, $500 \approx 9$; paraphysibus linearibus, ascorum longitudinem æquantibus; sporidiis filiformibus, multiguttulatis vel pseudoseptatis, $300-350 \approx 2$.

Hab. in foliis emortuis *Eucalypti*, San Francisco Californiæ.



REPERTORIUM

PYRENOMYCETUM

SECUNDUM MATRICES

Obs. A. indicat *Asterina*. — Ac. *Acanthostigma*. — Acr. *Acrospermum*. — Am. *Amphisphaeria*. — An. *Anthostomella*. — Ant. *Anthostoma*. — Ap. *Apiospora*. — Api. *Apio-sporium*. — Au. *Auerswaldia*. — Aul. *Autographum*. — B. *Bizzozzeria*. — Ba. *Balansia*. — Bag. *Bagnisiella*. — Bo. *Botryosphaeria*. — Br. *Broomella*. — Bri. *Briaridia*. — C. *Chaetomidium*. — Ca. *Capnodium*. — Cal. *Calonectria*. — Calosp. *Calospora*. — Calos. *Calosphaeria*. — Ce. *Cerzostoma*. — Cer. *Ceratostomella*. — Cera. *Ceratospaeria*. — Ceri. *Ceriospora*. — Ch. *Chaetomium*. — Cha. *Charonectria*. — Che. *Chaetosphaeria*. — Cl. *Cleistoma*. — Cla. *Claviceps*. — Cly. *Clypeosphaeria*. — Cæ. *Cælosphaeria*. — Cop. *Coprolepa*. — Cor. *Corynelia*. — Cr. *Cryptosphaeria*. — Cry. *Cryptosporella*. — Cryp. *Cryptospora*. — Crypt. *Cryptovalsa*. — Cu. *Cucurbitaria*. — Del. *Delitschia*. — D. *Dimerosporium*. — Di. *Diatrype*. — Dia. *Diatrypella*. — Diap. *Diaporthe*. — Did. *Didymella*. — Didy. *Didymosphaeria*. — Dil. *Dilophia*. — Do. *Dothidella*. — Dot. *Dothidea*. — E. *Erysiphe*. — El. *Eleuthero-myces*. — En. *Endoxyla*. — Enc. *Enchosphaeria*. — Ep. *Epichlœ*. — Er. *Eriosphæria*. — Eu. *Eurotium*. — Eur. *Euryachora*. — Eut. *Eutypella*. — Euty. *Eutypa*. — F. *Fracchiava*. — Fe. *Fenestella*. — G. *Gnomoniella*. — Gl. *Gloniella*. Glo. *Gloniopsis*. — Gn. *Gnomonia*. — H. *Hyaloderma*. — Ha. *Haplosporium*. — He. *Heptameria*. — Herc. *Hercospora*. Her. *Herpotrichia*. — Ho. *Homostegia*. — Hypoco. *Hypocopa*. — Hy. *Hypoxyton*. — Hyp. *Hypomyces*. — Hypo. *Hypocrea*. — Hypoc. *Hypocrella*. — Hypocre. *Hypocreopsis*. — Hypod. *Hypoderma*. — Hys. *Hysterostomella*. — Hyst. *Hysterium*. — Hyste. *Hysterographium*. — I. *Inzeajca*. — K. *Kalmusia*. — Kic. *Kickzella*. — L. *Lasiobotrys*. — La. *Lasiosphaeria*. — Læ. *Læstudia*. — Le. *Lentomita*. — Lem. *Lembosia*. — Lep. *Leptosphaeria*. — Li. *Lizonia*. — Lin. *Linospora*. — Lo. *Lophiosphaera*. — Lop. *Lophiotricha*. — Loph. *Lophotrema*. — Lophi. *Lophiostoma*. — Lophid. *Lophidium*. — Lophod. *Lophodermium*. — M. *Merophæra*. — Ma. *Massaria*. — Mas. *Massarina*. — Massa. *Massariovalsa*. — Maz. *Mazzantia*. — Me. *Meliola*. — Mel. *Melanopsamma*. — Mela. *Melanconis*. — Melan. *Melanconiella*. — Melano. *Melanomma*. — Melanos. *Melanospora*. — Melo. *Melogramma*. — Met. *Metasphaeria*. — Mi. *Micronectria*. — Mic. *Microthyrium*. — Micr. *Micropeltis*. — Microsph. *Microsphaera*. — Mo. *Monascus*. — Mon. *Montagnella*. — Mor. *Morenoëlla*. — Mu. *Munkella*. — Mü. *Müllerella*. — My. *Myriococcum*. — Myi. *Myiocopron*. — Myt. *Mytilidion*. — N. *Nummularia*. — Ne. *Neopeckia*. — Nec. *Nectriella*. — Neet. *Nectria*. — O. *Ophiobolus*. — Op. *Ophionectria*. — Oph. *Ophiodothis*. — Or. *Orbicula*. — Ot. *Othia*. — P. *Phomatospora*. — Pa. *Parodiella*. — Par. *Paranectria*. — Pe. *Pemphidium*. — Ph. *Phyalospora*. — Pha. *Pharcidia*. — Phi. *Philocopa*. — Phy. *Phyllachora*. — Pi. *Pisomyxa*. — Pl. *Pleospora*. — Ple. *Pleosphaeria*. — Pleo. *Pleonectria*. — Pleog. *Pleogibberella*. — Pod. *Podosphaera*. — Pr. *Protoventuria*. — Py. *Py-*

renophora. — R. *Rosellinia*. — Re. *Rehmiella*. — Rh. *Rhynchostoma*. — Rhy. *Rhynchomeliola*. — Ro. *Rosenscheldia*. — S. *Sphaerotheca*. — Sa. *Saccardinula*. — Sc. *Scirrhiiella*. — Sch. *Schneepia*. — Sci. *Schirria*. — Scu. *Scutellum*. — Se. *Seynesia*. — So. *Sordaria*. — Sor. *Sorothelia*. — Sp. *Sphaerella*. Sph. *Sphaerulina*. — Sphæ. *Sphaeroderma*. Spo. *Sporormia*. — St. *Stigmatea*. — T. *Trabutia*. — Te. *Teichospora*. — Th. *Thyridaria*. — Thy. *Thyridium*. — Ti. *Tichothecium*. — Tr. *Tryblidium*. — Tre. *Trematosphaeria*. — Tri. *Tripospora*. — Tric. *Trichosphaeria*. — Try. *Tryblidiella*. — U. *Uncinula*. — V. *Valsa*. — Va. *Valsaria*. — Ve. *Venturia*. — Vi. *Vizella*. — W. *Wallrothiella*. — Wi. *Winteria*. — X. *Xylaria*. — Z. *Zignoëlla*.

Numeri 6181-7000 citantur 181-700.

Numeri sequentes, nec non illi asteriseo notati, ex integro indicantur.

Additæ sunt matrices specierum in « **Addenda** ad Vol. I. et II. » (pp. 759-663 et pp. I-LXIX) contentarum. — Numeri harum specierum ex integro indicantur.

- Abies* — A. 210. — Me. 237. — Sp. 415. Nect. 4804*. 4806*. — Hypo. 7204. 7209.
- Acacia* — W. 399. — Diap. 560. — Thy. 7124. — Nect. 7178. — Glo. 7389.
- Acanthaceæ*. Se. 7334.
- Acarospora*. — Didy. 589.
- Acer* — My. 190. V. 276. 277. — Cr. 5907. — Did. 6077. — Ch. 300. — Cu. 491. — Mela. 540. 541. 542. — Rh. 620. — Melano. 7004. — Met. 7033.
- Aconitum*. — Loph. 6178.
- Acorus* — Lep. 3069.* — Met. 7040.
- Adenostylis* — Aer. 7402.
- Æsculus* — Diap. 544. 545.
- Agaricus* — Hyp. 7166. 7169.
- Agave* — Pl. 7092.
- Agrostis* — St. 472.
- Aira* — Lep. 682.
- Albizzia* — Ho. 7317.
- Alchemilla* — Re. 6084.
- Algæ* — O. 7143.
- Alnus* — V. 5899. 5061. — Dia. 5912. Di. 291. — R. 310. — Hypo. 5966. — Cer. 5996. — Gn. 491. — Cry. 411. — Va. 639. — Met. 7029.
- Alpinia* — Phy. 7275.
- Amelanchier* — D. 242.¹ — Diap. 6095. 6097. — Ple. 7308. — Pe. 6165.
- Ampelopsis* — Cry. 6025. — Diap. 6104.
- Ammophila* — An. 1071.¹
- Amonus* — Pi. 120.¹
- Anagiris* — Diap. 6102.
- Anamirta* — Lep. 652.
- Andromeda* — A. 202. 217. — Ve. 6089. — Lep. 673. — Cu. 7118. Lin. 7146.
- Andropogon* — Ant. 5933. — Nect. 7180. — Phy. 5132*.
- Androsace* — Did. 484.
- Angelica* — Sp. 457. — Did. 6080.
- Anonacea* — Oph. 7321.
- Apocynæ* — Mu. 7294.
- Apollonia* — Gn. 491.
- Arabis* — Met. 7037. — Sp. 7041. — Py. 7098.
- Aralia* — Bo. 405.
- Araucaria* — Lep. 665.
- Arbutus* — Cer. 5998. — Sp. 428.
- Aretagrostides* — Pl. 7093.
- Aretostaphylos* — Ve. 526.
- Ardisia* — Ca. 534.
- Arenaria* — Sp. 439. 6050. — Ve. 6035.
- Arrhemia* — Pod. 52.

- Artemisia. — Ve. 535. — Lep. 693.
 6126. — Mon. 7315.
 Arthonia — Pha. 497.
 Artocarpus — X. 4527.*
 Arundo — Didy. 581. — Lep. 685. —
 Mic. 5374*.
 Arundinaria — Me. 214. — Aul. 7372.
 Asarum — Læ. 5012.
 Asclepias — A. 5883. — Læ. 6005. —
 O. 6169. — Diap. 5696.
 Asparagus — Lep. 674. 687. 689. —
 O. 7138.
 Aspicilia — Ph. 396. — Pha. 498. —
 Ti. 593. 597.
 Aster — Diap. 6110.
 Asterina — Ve. 521.
 Astragalus — Sp. 6061.
 Astronium — Phy. 7270.
 Andibertia — O. 7129.
 Aurantiacæ — Cal. 4955*.
 Azalea — Sp. 459. — Hypo. 7213.

 Baccaris — Lep. 649. — Melano. —
 7007. — Do. 7297.
 Bambusacæ — A. 220. — D. 231. —
 Er. 538. — Didy. 582. — Nect. 7198.
 — Cal. 7231. — Par. 7233. — Se.
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 Bauhinia — T. 397.
 Berberis — V. 5897. — Di. 293.
 Betula — Eut. 5903. — Ot. 6120. —
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 627. 628. 629. — Va. 631. — Me-
 lano. 7002. — Pl. 3764*. 7036. —
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 Pha. 500. 502. — Ti. 607.
 Biatorina — Pha. 499.
 Bignonia — Me. 5886. — Br. 7234. —
 Phy. 7267. — Plo. 7307.
 Bignoniacæ — Phy. 7263. — Oph.
 7322. — Se. 7335.
 Blechnum — Op. 7239. — Mic. 7331.
 Bobartia — Didy. 583.
 Borrea — Ti. 605.
 Brachypodium — Phy. 7281.
 Brassica — Di. 283. — Va. 630. — Me-
 lano. — 7013. — Nect. 7156. — Nect.
 7172.
 Brayera — St. 470.
 Broussonetia — Te. 7125.
 Bromelia — Met. 7036.
 Buellia — Pha. 502.
 Buxus — Læ. 6002. 6003. — Did. 6075.
 — Lep. 6138. — Tre. 6144. — Te.
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 Calamus — Pleog. 7238. — Se. 7333.
 Calendula — Me. 245.
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 Camillea — Læ. 376.
 Campanula — Sp. 6054.
 Calystegia — Plo. 3306.
 Capparis — Didy. 573.
 Carex — Ve. 535. — Sph. 7049.
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 Carpinus — Hyp. 5969. — Bo. *1762.
 *1763. — Diap. 554. 6092. — Am.
 614. — Va. 632. — Chæ. 696. 697.
 — Met. 7026. — Z. 7059. 7060. 7061.
 — Nect. 7187.
 Carya — Eut. 281. — Cryp. 7150. —
 Sp. 6045.
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 Cassandra — Ve. 520.
 Cassia — Lep. 663. — Sp. 434. — Pl.
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 Ceanothus — Didy. 587. — Lep. 662.
 — Di. 290. — Hyste. 7391.
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 Celastrum — A. 221.
 Celtis — Did. 6074. — U. 31.
 Centaurea — Sp. 6063.
 Cenangium — Sp. 469.
 Cenchrum — Ph. 7274.

- Cerastium — Sp. 449. — Pl. 7082. —
 Py. 7100.
 Cerasus — Sp. 6044. — Diap. 552.
 Cereis — Sp. 431. — Bag. 7254.
 Chærophyllyum — Lep. 669.
 Chamærops — Au. 318. — An. 5248*.
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 Chrysanthemum — Lep. 669.
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 — Lophi. 7353.
 Corylus Sp. 429. — Eu. 7119. — Diap.
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 Cotoneaster — V. 5371.
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 Tre. 6144.
 Cucumis — Did. 477.
 Cucurbita — Euty. 286. — Læ. 6014.
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- Echium — Ce. 297.
 Elymus — Pl. 7091.
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 Epilobium — A. 206. — Tr. 6021. —
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 — Cly. 694. 7074.
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 Eryngium — Lep. 6129.
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 Erysimum — Sp. 6062.
 Eucalyptus — Eu. 104*. — A. 193. —
 Me. 240. — Po. 315. — Diap. 548.
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 — Mon. 7314.
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 1996*. — Diap. 6100.

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 Galium — Nect. 7184. — Bri. 7366.
 Gardenia — Sp. 6043.
 Garrya — Thy. 7122. — Aul. 7370.
 Gaultheria — A. 199. — Ve. 529.
 Genista — Diap. 558.
 Gentiana — Ve. 6088. — Ma. 645. O. 7133.
 Geranium — S. 182. — Ph. 384. — Diap. 557. 571. — Lep. 654. — O. 4042*.
 Gladiolus — Sp. 6064.
 Gleditschia — Pleo. 7237. 6176.
 Glyceria — Cla. 7244.
 Glycines — Diap. 546.
 Gnaphalium — O. 4018*.
 Gordonia — Me. 235. — Sp. 6052.
 Graminaceæ — Sp. 6065. 6066. 6067. — Did. 6081. — Lep. 684. — Ep. 7250. — Sci. 7310.
 Graphis — Pha. 504.
 Grewia — A. 1703.
 Guetteria — Phy. 7278.
 Gymnadenia — Sp. 462.
 Hæmatomma — Ti. 604.
 Hakea — Didy. 579. — Gl. 7386.
 Hedera — Met. 6148.
 Helichrysum — An. 5930. — Sp. 447.
 Helleborus — Diap. 6108.
 Heracleum — Melanos. — 7163.
 Heteromeles — Me. 243. — Ca. 248. — Hypod. 7398.
 Hieracium — Sp. 1996.
 Hierochloa — Lep. 686.
 Hippophaës — Te. 3894.
 Hydrangea — Ve. 532.
 Hypericum — Bo. 409. — Sp. 6058.
 Hypoxylon — Am. 619.
 Hyptis — Ro. 7305.
 Humulus — Did. 2166*. — O. 7130.
 Ilex — A. 5880. — Ph. 386. 390. — Sp. 6050. — Diap. 6097. — Met. 7034. — Sa. 7342.
 Inula — Lophid. 7361.
 Iris — Læ. 372.
 Juglans — Calos. 5894.
 Juniperus — Ca. 247. — V. 264. — Læ. 6008. — Sp. 6072. — Am. 617. — Z. 6152*.
 Juncus — Sp. 6070. — Hypo. 7206.
 Jva — Ph. 6017.
 Kalmia — Sp. 427.
 Körberliella — O. 7142.
 Lampsana — Lep. 2928*.
 Lathyrus — Eur. 7289. — Lep. 6134.
 Lauraceæ — Phy. 7265. — Se. 7337. — Lophod. 7399.
 Laurus — R. 311. An. 322. — Gn. 492. — Hypo. 7203.
 Lavatera — V. 272.
 Lecanora — Ph. 393. — Did. 486. 488. — Pha. 500. 506. — Didy. 588. — Ti. 599. 604. 608. — O. 7141.

- Lecidea — Didy. 590. — Ti. 604.
 Lecidella — Did. 486.
 Leguminosæ — Pl. 7083. — Do. 7304.
 lenzites — C. 5917.
 Leucadendron — A. 195.
 Leucojum — Pl. 7087.
 Leucospermum — A. 195.
 Lencothoës — Læ. 6009.
 Libanotis — Lep. 650.
 Licania — A. 197.
 Lichenaceæ — Ti. 598. 603. 604. 606.
 Lindera — Cl. 5882.
 Liquidambar — Cry. 410. — Eut. 571*.
 Liriodendron — Sp. 6046. — Didy. 577.
 Litsea — Do. 7300.
 Lonicera — Diap. 6103. — L. 191. —
 Met. 7027. 7062. — Tre. 6142.
 — O. 6170. — Dot. 7311. — Glo.
 7388.
 Lucea — Me. 236. — Mi. 7243. —
 Phy. 7285.
 Luprinus — V. 271. — Did. 482. —
 Diap. 570. — Pl. 7077. 7078. — Nect.
 7183.
 Luzula — P. 381. — Met. 3486.* —
 Phy. 7280.
 Lycium — Didy. 6110. 6111.
 Lycopodium — Lep. 690.
 Lysimachia — Ma. 645.
 Lythrum — Met. 7018. — Loph. 5433*.

 Magnolia — Api. 5876. — Di. 292. —
 Læ. 6004. — Ve. 522. 523. — Diap.
 6093. — Nect. 7185. — Hyp. 7218.
 Malpighiaceæ — Phy. 7264.
 Mangifera — Sp. 426.
 Matthiola — Didy. 576.
 Megarrhiza — Didy. 478. 479.
 Melastomaceæ — Phy. 7261. 7262. —
 Lem. 7378.
 Medicago — Lep. 653.
 Melaleuca — Læ. 6007. — Me. 285.
 Melastomaceæ — D. 228.
 Melia — Cr. 283. — Di. 5908. — Me-
 lo. 7015.
 Melianthus — Sp. 438. — Phy. 6177.
 Melilotus — Sp. 442.

 Meliola — Nect. 7199. — Cal. 6229.
 Menispermum — Microsph. 57. — V.
 273.
 Mercurialis — Nect. 7196.
 Mesembryanthemum — Met. 7022.
 Mimosa — Pl. 7086.
 Mimulus — Am. 618.
 Monesia — Læ. 377.
 Monocotyledoneæ — Py. 3861*. —
 Nect. 7186.
 Morus — V. 259. 260. — Eut. 280.
 571*. — Ant. 1097*. — Sp. 424. —
 Z. 6155. — Pl. 3730. 7085*. — Hy-
 ste. 7395.
 Mulgedium — Læ. 374.
 Mühlenbergia — Sp. 6069.
 Musa — Dil. 7149.
 Myginda — Sp. 421.
 Myrica — Diap. 6091. — Me. 232. —
 Met. 7028. — Au. 7291.
 Myrtaceæ. — U. 183. — Lin. 7148. —
 Cal. 7226. — Phy. 257. — Mic.
 7332. — Se. 7334.
 Myrsines — Phy. 7258.
 Myxogastrum — El. 7157.

 Nectandra — Mor. 7363.
 Negundo — Cu. 3958*.
 Nemopanthes — M. 185. — Ve. 525.
 Nyssa — Lophid. 6179.

 Oenothera — Ce. 5915. — Sp. 450.
 Olea — A. 5881. — D. 225. — I. 400.
 — Ant. 5935. — X. 5943. — Sp.
 6039.. — Did. 6076. — Am. 6117.
 — Z. 7058*. — Lem. 7376. — Hy-
 pod. 7396.
 Oplismenum — Phy. 5132*.
 Opuntia — R. 313.
 Orchideæ — Mel. 517.
 Orobus — Sp. 1948*.
 Orontium — Læ. 368.
 Ostrya — Tr. 6022. — Va. 632.
 Osyris — D. 223. — Par. 7232. — Do.
 7301.

 Pachypleurum — Sp. 456.

- Padum — La. 7050.
 Palmæ — Ph. 392. — Myi. 7323. 7324.
 Panax — Sp. 6053.
 Papaver — Sp. 453.
 Parmelia — Ph. 396. — Pha. 508.
 Paronychia — Læ. 6013. — Pl. 7081.
 Paspalum — Phy. 5132*.
 Pastinaca — O. 6168.
 Pavetta — A. 1771.
 Peijoa — Rhy. 622.
 Peltigera — O. 7140.
 Pennisetum — Ba. 7249.
 Pentanisia — Pa. 6114.
 Pentatemon — Tr. 7375.
 Persea — A. 207. 212. 213.
 Persica — Met. 3442*.
 Petrocallis — Sp. 6057.
 Phaca — Pl. 7084.
 Phaseolus — Mier. 7340.
 Philæum — Ph. 6019.
 Phlyctis — Sor. 609.
 Phoradendron — Va. 633.
 Phormium — An. 323. — Lep. 679.
 Phragmites — Lep. 3086#. 688. — Met. 7038. — Met. 6151.
 Physalis — Diap. 6102. — Lep. 647.
 Physma — Met. 7041.
 Pilocarpum — Scu. 7333.
 Pinus — A. 5879. — An. 320. — Sp. 414. — Mel. 6086. — Ne. 621. — Melano. 698. — Myst. 5701. Tre. 7011. — Z. 7066. — Hypo. 7211. — Op. 7240. — Pe. — 7341. — Aul. 7369.
 Pircunia — C. 192.
 Pirus — R. 312.
 Pistacia — Ant. 5934. — Sp. 6051. — Diap. 6107. — Melano 6137.
 Pittosporum — Sp. 422.
 Placodium — Did. 487. — Ti. 600.
 Plantago — A. 5884. — Lep. 6131. 6132. — Pl. 7080. — Te. 6165.
 Platanus — Microsph. 312. — Eut. 279. — Dia. 5913. Læ. 6000. — Sp. 6033. — Lep. 6130. — Ph. 1660*. — N. 354.
 Poa — Did. 485. — Didy. 6113. — Pl. 7094.
 Podocarpus — Sp. 6030. — Cor. 7153. — Tri. 7154.
 Polyblastia — Ti. 597.
 Polygonum — Ant. 5933. — Læ. 6011. — Pl. 6072.
 Polygonatum — Læ. 6010.
 Polypodium — Læ. 380.
 Polyporus — Cera. 7057. — Melanos. 7161. — Hyp. 7167. — Hypo. 7219. 7220. 7224.
 Populus — Hyp. 5975. — V. 275. En. 284. — U. 311. — Dia. 296. — Cer. 362. 1551*. — Bo. 401. — Sp. 6035. — Diap. 549. Am. 616. — Melan. 6124. — Melano 7008. — K. 6146. — Euc. 3585*. — Cu. 3973. — Loph. 7349. — Lophid. 7362.
 Parocephus — Pha. 503.
 Potentilla — Sp. 414. — Sph. 7046. Mic. 7329.
 Primula — Lep. 672.
 Prinus — Sp. 6032.
 Protea Did. 480.
 Prunus — Sp. 1899#. 6073. — V. 267. — Diap. 5533. 561. Cu. 391.
 Psamma — Lep. 671.
 Psora — Pha. 507. — Ti. 594.
 Psoromas — Pha. 496.
 Ptelea — O. 1626.
 Pteris — P. 383. — Sp. 466. — Phy. 7288.
 Punica — Cæ. 5892. — Melano 6139. — O. 6171.
 Pyrola — Læ. 364.
 Quebeachia — Hy. 349. — Dot. 7313.
 Quercus — S. 181. — M. *58. — E. 186. — A. 200. 201. 203. 204. 205. 208. 214. — D. 222. — Cæ. 252. — B. 256. — V. 266. — Eut. 5900. 5902. — Di. 287. — R. 309. — An. 5929. — Ant. 328. — Læ. 367. 369. 370. — Ph. 388. 389. — Cry. 6027. Sp. 6028. 6029. — Did. 6073. 6079. — Gn. 6083. — Ve. 524. — Diap. 547. 6105. — Didy. 586. — Am. 613. — Ot. 6121. — Massa. 6125. —

- Va. 641. — Melano. 700. — Z. 6156.
 — Calosp. 6157. — Her. 7055. —
 Te. 7112. — Wi. 7113. — Cha. 6172.
 — Cal. 7227. — Mic. 7328. — Loph.
 7350. — Lophi. 5417*. 7358. — Aul.
 3767. 7368. — Gl. 7384. — Gle. 5744*
 7389.
- Ranunculus — Sp. 435. 436. — Lep.
 657. Met. 7019.
- Rapistrum — Sp. 6032.
- Rhamnus — Ca. 249. — Di. 5910. —
 Diap. 551. — Tre. 6143. — Te. 6162.
 6163. — Bag. 7253.
- Rhizocarpus — Ti. 694. 595. 606.
- Rhododendron. — A. 194. — Me. 233.
 — Læ. 378. — Sp. 6042. — Lep.
 665. — Melano 6140.
- Rhus — Ant. 327. — Sp. 6049. —
 Diap. 6102. — Wi. 7114. — Oph.
 7320.
- Ribes — V. 268. — Sp. 420. — Ma.
 642. — Lep. 661. — Melano. 699.
 — Met. 7032. — Te. 7111. — Fe.
 4504*.
- Ricinus — Læ. 366.
- Rinodina — Ti. 604.
- Robinia — Ent. 5901. — Diap. 566.
- Rosa — Did. 475. 476. — Pr. 572. —
 Lophid. 7355.
- Rosmarinus — Te. 6161.
- Rubia — Diap. 6101.
- Rubus — A. 211. Me. 239. — Cr. 5906.
 — Læ. 373. 2561*. — Tric. 6020. —
 Lep. 660. — Her. 3212* — Loph.
 7348.
- Rumex — Diap. 6098.
- Ruprechtia — Phy. 7268.
- Ruscus — An. 5925.
- Rutaceæ. — Me. 284*.
- Ruta — Pl. 6159. — Cu. 6167.
- Sabal — Dia. 5911. — Hypoco. 5921.
 — An. 5926. 5932. — Sp. 460. —
 Didy. 575. — Lep. 6135. — O. 7139.
- Saccharum. — A. 218. — An. 319. —
 Ph. 391.
- Salix — Ce. 298. — R. 316. 5924. —
 Hyp. 5965. — Ph. 6018. — Did. 474.
 — Mel. 6085*. 6086. — Ve. 2288. —
 Diap. 555. 556. 569. — O. 1625. —
 Am. 6116. — Va. 637. Lep. 664. 670.
 — Melano. 699. 7003. 7006. — Mas.
 7017. — Z. 7065. 6152. — Py. 7101.
 — Te. 7106. 7107. — O. 7136. —
 Lin. 7145. — Hypocre. 6173. —
 Loph. 7346. — Try. 7381. — Hyste.
 7390. — Lophi. 5416*.
- Salsola — Lep. 6128. — Met. 6147.
- Salvadora — Do. 7299.
- Salvia — Melano. 7009. — Eu. 7121.
- Sambucus — Cr. 5905. — R. 314. —
 Sph. 7044. — Eu. 7120. — O. 7134.
 — Lophi. 7325. 7357.
- Sapindaceæ — H. 289. — Sp. 417. 418.
 — Cal. 7230. — Phy. 7266. — Mic.
 7327.
- Sarcothamnus — C. 5918. — Lep. 665.
- Sassafras — Sp. 416. — Gn. 493.
- Saxifraga — Did. 481. — Pl. 6158.
- Scabiosa — Sph. 7048.
- Scheuchzeria — Sp. 463.
- Scilla — Ha. 307.
- Scirpus — Sp. 2049*. — Gl. 8387.
- Serophularia — Sp. 1996*. — Diap.
 563. — Lep. 2919*. — O. 7132.
- Secale — Py. 7104.
- Sedum — Pl. 7075.
- Senecio — Sp. 6055.
- Sequoja — Am. 615.
- Setaria — Ba. 7249. — Phy. 7282.
- Sida — A. 1701. 1702.
- Siegortia — Ti. 606.
- Silene — Met. 7021.
- Smilax — Me. 244. — Met. 7039.
- Solanaceæ — H. 189. — D. 226.
- Solanum — Mo. 187. — Ch. 301. —
 Melanos. 7162. — Se. 7334.
- Solorina — Pha. 2232*. — Pl. 7095.
 — Pleo. 6175.
- Sophora — Sp. 423. — Melano 6141.
 — Te. 6166. — Cal. 6174.
- Sorbus — Loph. 7347.
- Sparganium — So. 393.

- Spartina — Lep. 675. 680. 681. — O. 7128.
 Spathycarpa — Phy. 7269.
 Sphyridium — Lep. 692.
 Spiræa — Pod. 51.
 Sponia — A. 2311.
 Sporastatia — Didy. 591.
 Squamaria — T. 592.
 Staphylea — Lep. 663. — O. 7144. — Lophi. 7359.
 Stereocaulom — Didy. 590. — Ti. 601. — Lep. 691.
 Stereum — Lep. 6136. — Nect. 7193. 7195.
 Sticta — Ho. 7316.
 Styphelia — Nect. 7179.
 Styrax — Li. 511. 512. — Sch. 7364.
 Spiræa — V. 257. — Ma. 645.
 Succisa — Lep. 667.
 Symphoricarpus — Microsph. 56. — Eut. 278.
 Syringa — Bo. 404.

 Tabebuia — Mu. 7395.
 Taxodium — Sp. 6031.
 Tecoma — Sp. 6037. — Diap. 568.
 Teconia — Mu. 7295.
 Thalictrum — Sp. 437.
 Thelidium — Pha. 495.
 Thibandia — Bag. 7252.
 Tuja — Sp. 433.
 Thypha — Didy. 584.
 Tilia — Cœ. 251. — Sp. 464. 6034. — Herc. 6090. — Diap. 555. — Th. 7058. — Lophi. 7354.
 Todea — Sph. 7045.
 Tragopogon — Lep. 651.
 Trichilia — Vi. 7326. — Se. 7336.
 Trichomanes — Sp. 468.
 Trifolium — Sp. 443. 453. — Sph. 7047. — Py. 7102.
 Trithrinax — Phy. 7287.

 Triticum — Pl. 7090.
 Trollium — Met. 7020. — Py. 7099.
 Tsuga — An. 325. — La. 7051.
 Typha — Lep. 683. — Sci. 7309.

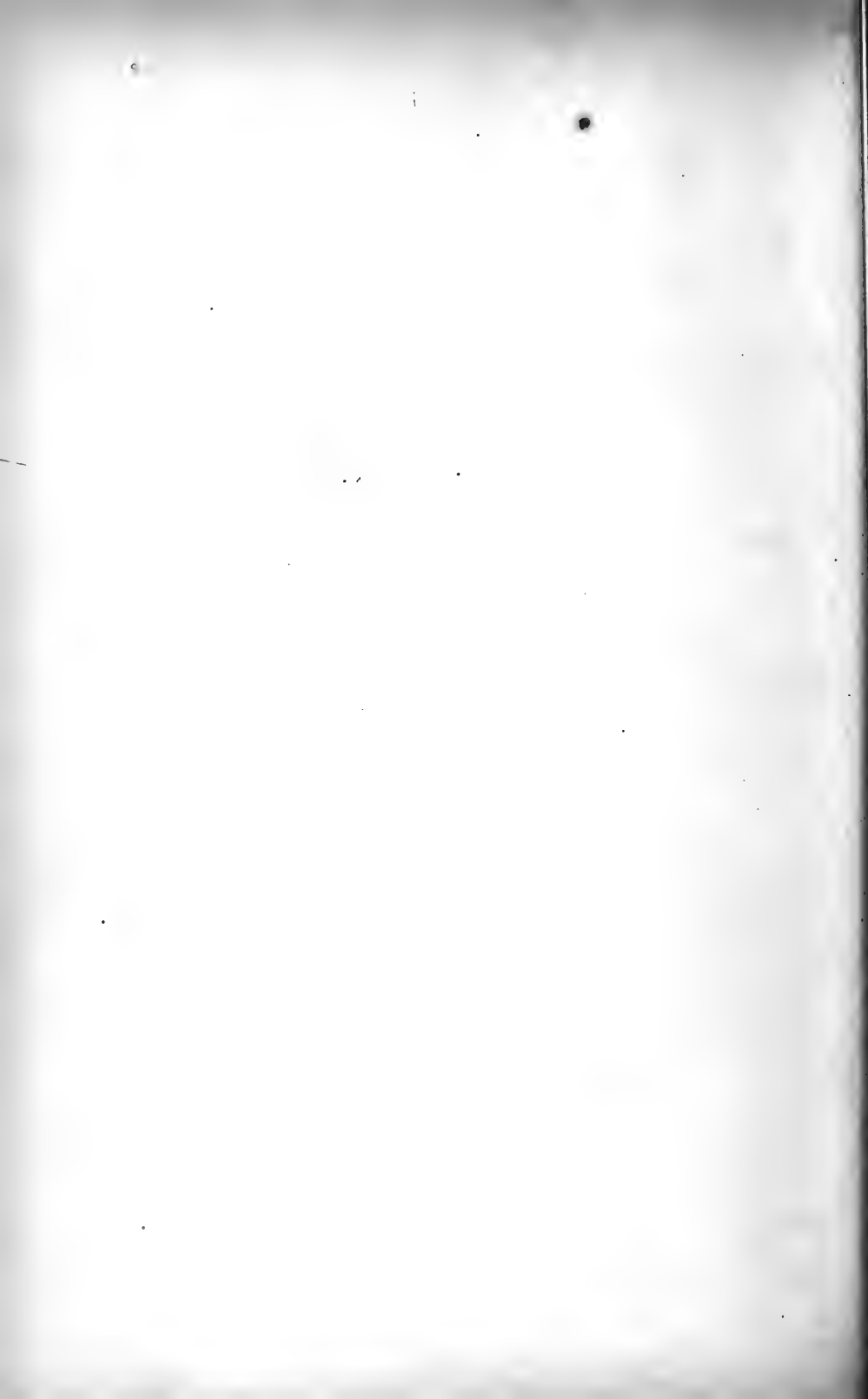
 Umbelliferæ — A. 2071. — Lep. 659. — Met. 7023. — Maz. 7255.
 Umbellularia — Ca. 250. — An. 321. — Sp. 425. — Ma. 644. — Lep. 666. — Nect. 182.
 Ulex — Ceri. 7042.
 Ulmus — Cœ. 5889. — Cr. 282. — Di. 5909. — Sp. 6041. — Diap. 6094. — Hy. 1333*. — Melano 7001. — Cal. 7228.
 Urceolaria — Ti. 596.
 Urtica — Ap. 6071.

 Vaccinium — A. 217. — Sp. 430. — Ve. 527. — Mic. 7330.
 Variolaria — Or. 5878.
 Verbascum — Pl. 7076.
 Verbena — Did. 11291.
 Verbesina — Phy. 7259.
 Viburnum — Microsph. 351. — Ant. 21661. — Læ. 6006. — Bo. 402. — Cry. 6026. — Melano. 7005. — Lin. 7147. — Lop. 7345.
 Vinca — Lep. 648.
 Viscaria — Pl. 7071.
 Vitex — Phy. 7284.
 Vitis Ph. 387. — Diap. 559. — Didy. 574. — Met. 7031. — Thy. 7123. — Nect. 7188. — Lophi. 7351.

 Xanthium — Sp. 454.
 Xanthoxylum — Z. 7067.
 Xerophyllum — A. 5885. — Lep. 676. — Met. 6149.
 Xylaria — Sphæ. 7160.
 Xylaria — Nect. 7191.

 Zea — Diap. 565. 6180. — Met. 6150.





SPHÆROPSIDEÆ Lév. reform.

Fam. 1. Sphæroidæ Sacc.

Sect. 1. Hyalosporeæ Sacc.

PHYLLOSTICTA Pers. — Sacc. Syll. III, p. 3.

- * 1. **Phyllosticta sphæropsidea** Ell. et Ev. in Bull. Torr. bot. Club. 4213
1883, p. 97. — Maculis rufo-brunneis, margine pallide luteo cinctis, sparsis, 1-2 cm. diam., vel confluentibus et latioribus; peritheciis sparsis, punctiformibus, immersis, sursum perforatis, in pagina sup. foliorum prominulis, sed epidermide tectis; sporulis globosis vel late ellipsoideis, hyalinis, nucleis minutis faretis, nucleis uno v. duobus majoribus, 12-15,5 \approx 8-10, in basidiis *Sphæropsidium* similibus insertis.

Hab. in foliis vivis *Æsculi* Hippocastani, Vineland Amer. bor. (D. C. BIDWEL).

- * 7. **Phyllosticta Treleasei** Berl. et Vogl. *Phyll.* sp. Trel. Paras. Fungi 4214
Visc. p. 17. — Maculis rotundatis vel oblongis, 3-8 mm. diam., rufo-brunneis; peritheciis minutis, atris; sporulis ellipsoideis, hyalinis, 2-4 \approx 7-8, unicellularibus.

Hab. in foliis Pruni serotinæ, Madison Amer. bor. — Verisimiliter a *P. serotina* non distinguenda.

- * 8. **Phyllosticta Passerinii** Berl. et Vogl. *Phyllosticta Mahaleb* Pass. 4215
Fung. Gall. novi, in Jour. d'Hist. nat. 1885, n. 4, pag. 16. — Maculis subrotundis, minutis, fuscis, arescendo ochraceis, margine tenui elevato cinctis; peritheciis paucis, hinc inde congregatis, globoso-lenticularibus, pertusis; sporulis bacillaribus, minimis, 2 $\frac{1}{2}$ \approx 3 $\frac{1}{4}$, hyalinis.

Hab. in foliis languidis Pruni Mahaleb in Gallia (BRUNAUD). « Non *Ph. Mahaleb* Thüm. — Sacc. Syll. III, p. 5 ».

- * 13. **Phyllosticta rubra** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, 4216
p. 138. — Maculis parvis, angulatis vel irregularibus, quandoque confluentibus, rubris; peritheciis 1-5 in quaque macula, epiphyllis, minutis, nigris; sporulis late ellipticis vel subglobosis, 8 \approx 6, hyalinis.

Hab. in foliis vivis Cratægi tomentosæ, Albany Americæ borealis.

- *28. **Phyllosticta variabilis** Peck in Thirty-fifth Rep. St. Mus. Bot. 421
1884, p. 138. — Maculis parvis vel majusculis, suborbicularibus
vel irregularibus, brunneis aut purpureo-brunneis, centro primum
areolis aridis, albis punctato, denique undique aridis; peritheciis
minutis, epiphyllis, nigris; sporulis oblongo-ellipsoideis, 5-7 \approx 2,5-3.
Hab. in foliis vivis Rubi odorati, Albany Amer. bor.
37. **Phyllosticta Pseudacaciæ** Pass. Fung. Gall. nov. in Journ. d'Hist. 4218
nat. 1885, n. 4, p. 54. — Maculis parvis, subrotundis, fuscis, are-
scendo fusco-cinereis; peritheciis minutis, nigris; sporulis minutis-
simis, bacteriformibus.
Hab. in foliis vivis Robiniæ Pseudoacaciæ pr. Saintes
(Charente-Inférieure) in Gallia (BRUNAUD).
- *38. **Phyllosticta Cytisorum** Pass. in litt. Brunaud in Rev. Myc. 4219
1886, p. 139. — Peritheciis sparsis in maculis aridis, irregulari-
bus, epiphyllis, subglobosis, atris; sporulis oblongo-ellipticis, hya-
linis, crassiuscule binucleatis, 5 \approx 2,5; basidiis multo longioribus.
Hab. in foliis Cytisi Laburni, Préguillac Galliæ (BRUNAUD).
- *52. **Phyllosticta Stephanoti** Grove in Journ. of Bot. 1886. — 4220
Maculis rotundatis vel irregularibus, albidis, linea tenui, fusco-nigra
cinctis; peritheciis epiphyllis, numerosis, sparsis, atris, lenticulari-
bus, depresso-papillatis, $\frac{1}{4}$ mm. diam., epidermide ostiolo pertusâ;
sporulis oblongis, utrinque rotundatis, 12-16 \approx 4-5, hyalinis.
Hab. in foliis Stephanoti, Sutton Warwickshire Britanniæ.
— A *Ph. Asclepiadearum* peritheciis sporulisque multo majori-
bus differt.
- *53. **Phyllosticta Leucothœes** Ellis New. North Am. Fung. in Am. 4221
Nat. 1884, p. 1264. — Peritheciis in parte superiore foliorum de-
colorata, distincte-marginata, brunneo-rubiginosa sparsis, globosis,
150-200 μ . diam., parvis, parenchymate immersis, apicibus vix pro-
minulis, sed epidermide tectis; sporulis ovato-oblongis, 15-21 \approx
6-7, granulosis vel 2-3-nucleatis.
Hab. in foliis Leucothœes acuminatæ, Green Cove Springs
Amer. bor.
- *55. **Phyllosticta Epigææ** Peck in 38 Rep. Stat. Mus. p. 94. — 4222
Maculis latis, irregularibus, brunneis vel rufo-brunneis; peritheciis
minutis, 110-130 μ . diam., epidermide tectis, crumpeantibus, epi-
phyllis, atris; sporulis ellipticis, 8 \approx 4, hyalinis.
Hab. in foliis vivis Epigææ repentis, Caroga Amer. bor. 4223
- *56. **Phyllosticta Gaultheriæ** E. et E. in Jour. of Myc. I, p. 153. —
Maculis amphigenis, sparsis, atro-roseo-purpureis, minutis, 1-2

mm., margine fusco-purpureo cinctis; peritheciis amphigenis, sublenticularibus, atris, crasse cellularibus, leniter prominentibus, cuticula tectis, 100-115 μ . diam.; sporulis ellipticis, hyalinis, granularibus, 5-7 \approx 4-5.

Hab. in foliis vivis Gaultheriæ procumbentis, Newfield Amer. bor.

- *57. **Phyllosticta campestris** Pass. in litt. Brun. in Rev. Myc. 1886, 4224 p. 139. — Maculis parvis, angulosis, brunneis, centro pallidioribus, subinde folium ad marginem decolorantibus; peritheciis minutis, punctiformibus, parcis, nigris; sporulis minutis, oblongis, hyalinis, enucleatis, 2 \approx 1.

Hab. in foliis Aceris campestris prope Saintes Galliæ (BRUNAUD).

- *58. **Phyllosticta fraxinifolia** Pass. in litt. Brun. in Rev. Myc. 1886, 4225 p. 139. — Maculis epiphyllis, albis, suborbicularibus, minutis, non vel vix brunneo-marginatis; peritheciis parcis, minutis, atris; sporulis oblongis, hyalinis, obscure biguttulatis, 5 \approx 2,5.

Hab. in foliis Negundinis fraxinifoliæ, Saintes Galliæ (BRUNAUD).

- *62. **Phyllosticta Alaterni** Pass. in litt. Brun. in Rev. Myc. 1886, 4226 p. 139. — Maculis orbicularibus, albo-griseis, amphigenis, nigro-brunneo-marginatis; peritheciis sparsis, paucis, parvis, globulosis, atris; sporulis ovoideis, hyalinis, eguttulatis, 5 \approx 3,5-4.

Hab. in foliis Rhamni Alaterni, Saintes Galliæ (BRUNAUD).

- *69. **Phyllosticta Arbuti-unedonis** Pass. Fung. Gall. novi, in Jour. 4227 d'Hist. nat. 1885, n. 4, p. 16. — Peritheciis minutissimis, atris, in maculis e fusco-albicantibus, margine tenui, elevato-brunneo-cinctis; sporulis exiguis, elliptico-oblongis, hyalinis.

Hab. in foliis languidis Arbuti Unedonis, prope Brenil-Magné, Saintes in Gallia (BRUNAUD).

- *75. **Phyllosticta Lantanoidis** Peck in 38 Rep. St. Mus. pag. 94. — 4228 Maculis latis, suborbicularibus, cinereis, sæpe brunneo-marginatis; peritheciis minutis, 10 μ . diam., vix prominulis, epiphyllis, atris; sporulis ellipticis, binucleatis, 6-8 \approx 4, hyalinis.

Hab. in foliis vivis Viburni lantanoidis, Caroga Amer. bor. — Differt a *P. Tinea* magnitudine atque sporulis.

- *76. **Phyllosticta Viburni** Pass. in litt. Brunaud in Rev. Myc. 1886, 4229 p. 139. — Maculis irregularibus, majusculis, griseis vel griseo-ro-seis, crasse rufo-brunneo-marginatis; peritheciis parcis, sparsis,

minutis, nigris; sporulis oblongo-navicularibus, biguttulatis, 10-12 \approx 2,5-3.

Hab. in foliis Viburni Tini, Saintes Galliæ (BRUNAUD).

- * 85. **Phyllosticta Thunbergii** Wint. in Hedw. 1885, I. — Peritheciis 4230
epiphyllis, gregariis, secus nervos tenuiores dispositis, macula magna, indeterminata et irregulari, pallidissime flava, centro obscuriori insidentibus, hemisphæricis, atris, nitidis, membranaceis, 150-160 μ . latis; sporulis ovatis, subpiriformibus seu late ellipticis, plerumque subirregularibus, hyalinis, intus granulosis, 12-14 \approx 8-9.

Hab. ad folia viva Cocculi Thunbergii prope Tokio Japan (KECK).

- * 86. **Phyllosticta abortiva** E. et K. in Journ. of Myc. I, p. 4. — Ma- 4231
culis brunneis, suborbicularibus, $\frac{1}{4}$ -1 cm. diam., margine fusco, leniter elevato; peritheciis innatis, perforatis, minutis, atris et sparsis in maculis; sporulis imperfecte evolutis.

Hab. in foliis Menispermii canadensis, Manhattan Americæ borealis.

- * 87. **Phyllosticta Perseæ** E. et M. in Jour. of Myc. 1885, p. 100. — 4232
Maculis brunneolo-griseis, apicem et latera foliorum occupantibus; peritheciis brunneo-atris, lenticularibus, innato-erumpentibus, epiphyllis, 150-300 \approx 60-80; sporulis oblongis, hyalinis, nucleatis, 5-8 \approx 1-3.

Hab. in foliis vivis Perseæ carolinensis in Amer. bor.

- * 92. **Phyllosticta Mentzelii** Ellis et Kellerm. in Journ. of Myc. 1886, 4233
p. 4. — Maculis amphigenis, pallidis, definitis, $\frac{1}{4}$ - $\frac{1}{2}$ cm. diam.; peritheciis immersis, sæpe epiphyllis, fere 100 μ . diam., atris; sporulis oblongis, 5-7 \approx 2 $\frac{1}{2}$ -3.

Hab. in foliis vivis Mentzeliiæ nudæ, Kansas Amer. bor.

- * 93. **Phyllosticta symphoriella** Sacc. et March. in Rev. Myc. 1885, 4234
p. 147. — Maculis vagis, fuscescentibus, amphigenis; peritheciis sparsis, lenticularibus, punctiformibus, pertusis; sporulis ellipsoideis, olivaceo-fuscellis, 4-6 \approx 3.

Hab. in foliis Symphoricarpi in Belgio. — A *Ph. Symphoricarpi* differt sporulis coloratis, quibus ad *Coniothyrium* aliquid accedit.

- * 96. **Phyllosticta neurospilea** Sacc. et Berl. Misc. Myc. II, n. 37. — 4235
Maculis epiphyllis, nervis exacte limitatis, hinc angulosis, rufo-ochraceis; peritheciis globoso-depressis, parcissimis, innato-prominulis, punctiformibus; sporulis ovato-oblongis, 8-10 \approx 5-6, intus

granulosis, hyalinis; basidiis brevibus e basi stromatica, densiuscula oriundis.

Hab. in foliis *Vitis antarcticæ*, Logan Australiæ.

- * 105. **Phyllosticta sinuosa** Ellis New Spec. of North Am. Fungi in 4236
 Amer. Nat. 1884, p. 1264. — Maculis orbicularibus, 1,5-6 mm.
 diam., sæpius 2-3 mm. diam., rufo-brunneis, demum albescentibus,
 tumidulis, margine rufo-atro; peritheciis epiphyllis, sparsis, lenti-
 cularibus, 150 μ . diam., sæpius ad margines macularum; sporulis
 oblongis vel clavato-oblongis, hyalinis, 3,5-15 \approx 1,5.

Hab. in foliis *Oleæ americanæ* Green Cove Springs Ame-
 ricæ borealis.

- * 106. **Phyllosticta Fraxini** Ell. et M. in Am. Nat. 1884, p. 189. — 4237
 Maculis brunneolis, margine obscure purpureo, $\frac{1}{2}$ -1 cm. diam.;
 peritheciis epiphyllis, sparsis, lentiformibus, atris, 150 μ . diam.;
 sporulis oblongis vel oblongo-ellipsoideis, hyalinis, 1-2 nucleatis,
 7-9 \approx 2,5-3.

Hab. in foliis *Fraxini*, Bethlehem Amer. bor.

- * 111. **Phyllosticta Owaniana** Wint. in Hedw. 1885, I. — Peritheciis 4238
 in maculis fumoso-griseis, demum glaucescentibus, margine lato,
 fusco, determinato circumdatis, rotundato-angulatis vel irregulari-
 bus, interdum confluentibus, 9 \approx 4, epiphyllis, globosis, poro per-
 tuis, immersis, demum erumpentibus, atris, membranaceis, 85-
 90 μ . latis; sporulis ovatis, subpiriformibus vel ellipsoideis, hya-
 linis, 10-12 \approx 8.

Hab. in foliis languescentibus *Brabeii stellatifolii* ad
 pedem montis *Tabularis* Bras. (MAC-OWAN).

- * 121. **Phyllosticta garryæcola** Pass. in litt. Brun. in Rev. Myc. 1886, 4239
 p. 140. — Maculis rotundatis vel suborbicularibus, brunneis, dein
 pallidis, demum griseo-viridibus v. griseo-brunneis; peritheciis pun-
 ctiformibus, nigris; sporulis oblongis, hyalinis, 5-6 \approx 2,5-3.

Hab. in foliis *Garryæ ellipticæ* Préguaillac in Gallia (BRU-
 NAUD).

- * 127. **Phyllosticta Gordoniæ** E. et M. in Jour. of Myc. 1885. — Ma- 4240
 culis atro-brunneis, siccis, apicem et margines foliorum occupan-
 tibus; peritheciis brunneo-atris, subglobosis, innatis, leniter erum-
 pentibus, amphigenis, 120-140 μ . diam.; sporulis hyalinis, oblongis,
 nucleatis, 12 \approx 3.

Hab. in foliis vivis *Gordoniæ lasianthi* in Amer. bor.

- * 128. **Phyllosticta terminalis** Ell. et M. Am. Nat. 1884, p. 70. — 4241
 Maculis sæpius apicem vel quandoque marginem foliorum occu-

pantibus, linea purpureo-nigra circumscriptis; peritheciis globosis, parenchymate immersis, epidermidem nigrescentem vix elevantibus; sporulis oblongis, 3-4 \approx 1; basidiis cylindræis, sporulas longitudine æquantibus.

Hab. in foliis Ilicis Dahoonis, New Florida Amer. bor.

- * 131. **Phyllosticta mahoniæcola** Pass. in litt. Brun. in Rev. Myc. 4243
1886, p. 140. — Maculis amplis, brunneis, non limitatis, subinde totum folium occupantibus; peritheciis epiphyllis, sparsis, epidermide supra perithecium decolorata, circum circa brunnea tectis, demum vix erumpentibus, perforatis; sporulis oblongis, hyalinis, 7,5-8 \approx 2,5, biguttulatis.

Hab. in foliis languescens Mahoniæ japonicæ, Prêguillac Galliæ (BRUNAUD).

- * 133. **Phyllosticta asiatica** Cooke in Grevillea XIII, p. 91. — Maculis 4243
orbicularibus vel irregularibus, fuscis, margine purpureo-atro-brunneo cinctis; peritheciis paucis, in utraque pagina foliorum insidentibus, gregariis, minutis, atris, punctiformibus; sporulis minutis, hyalinis, 4 \approx 1,5; basidiis longioribus.

Hab. in foliis languidis Berberidis asiaticæ, Kew Britannia.

- * 137. **Phyllosticta Apocyni** Trelease Prelim. List. par. Fungi of Wis. 4244
pag. 17, *Ph. Apocyni* Ellis et Mart. New North Am. Fungi in Am. Nat. 1884, p. 1264. — Epiphylla, in maculis rotundis, definite limitatis, 1-2 mm. diam., margine vix tumidulo, brunneo; peritheciis subglobosis, erumpentibus, sæpe centrum macularum occupantibus; sporulis globosis vel ovatis, 7-9, granuloso-farctis, iis *P. Asclepiadearum* latioribus.

Hab. in foliis Apocyni cannabini in Amer. bor.

- * 147. **Phyllosticta Catalpæ** Ell. et Mart. in Am. Nat. 1884, p. 189. — 4245
Maculis pallide brunneis, circularibus, 5-7 mm. diam., margine obscuro; peritheciis paucis, sparsis, sæpe sterilibus, brunneis, lenticularibus, innatis, epiphyllis, 112 \approx 84; sporulis subhyalinis, ovatis, 5-7 \approx 2,5-4,5.

Hab. in foliis Catalpæ bignonioidis, West Chester America borealis.

- * 148. **Phyllosticta Pentestemonis** Cooke in Grevillea XIV, p. 90. — 4246
Maculis irregularibus, brunneis, indistincte marginatis; peritheciis subimmersis, sæpe concentricè dispositis, subinde sparsis, punctiformibus, atris; sporulis ovoideo-oblongis vel ellipsoideis, hyalinis, 5 \approx 3.

Hab. in foliis *Pentestemonis grandiflori*, Kew Britannæ.

- * 158. **Phyllosticta circumvallata** Winter in Jour. of Myc. 1885. — Ma- 4247
culis rotundato-angustatis, griseis, linea fusco-atra, elevata circumscriptis, 5 mm. diam.; peritheciis sparsis, plerumque epiphyllis, lenticularibus, atris, membranaceis, 100-120 μ . diam.; sporulis ellipticis, utrinque acuminatis, 7-9 \simeq 3 $\frac{1}{2}$ -4, nucleis 2, magnis præditis, hyalinis, continuis.

Hab. ad folia languida *Liriiodendri tulipiferæ*, Missouri Amer. bor.

- * 167. **Phyllosticta corylina** Ellis New North. Am. Fungi in Amer. 4248
Nat. 1884, p. 1264. — Maculis rufo-brunneis, rotundis, 2-5 mm. diam., sæpius coalitis et ad margines foliorum dispositis; peritheciis brunneo-nigris, erumpentibus, lenticularibus, amphigenis, 90-120 μ . diam.; sporulis subhyalinis, oblongis, utrinque nucleatis, 12-15 \simeq 6-7.

Hab. in foliis *Coryli americanæ*, Newfield Amer. bor. — A *Ph. Coryli* et a *Ph. corylaria* sporulis latioribus, characteribus macularum differt.

- * 176. **Phyllosticta salicicola** Thüm. Fung. Gall. novi, in Jour. d'Hist. 4249
nat. 1885, n. 4, p. 55. — Peritheciis epiphyllis, plerumque solitariis, parvis, hemisphærico-subemersis, lenticularibus, nigris, in macula plus minusve orbiculata, arescendo albo-grisea, sordide fusce irregulariterque marginata; sporulis numerosissimis, simplicibus, cylindrico-ellipticis, utrinque rotundatis, enucleatis, achrois, 3 $\frac{1}{2}$ -4 \simeq 1 $\frac{1}{2}$ -2.

Hab. in foliis *Salicis albæ* prope Saintes in Gallia (BRUNAUD).

- * 184. **Phyllosticta ilicicola** Pass. Fung. Gall. novi, in Journ. d'Hist. 4250
nat. 1885, n. 4, p. 54. — Maculis rotundis, brunneis, arescendo griseo-cinereis, marginatis; peritheciis lenticularibus, minutis, numerosis, nigris; sporulis minutis, ellipticis, hyalinis, 5-6 \simeq 1 $\frac{1}{2}$ -2.

Hab. in foliis *Quercus Ilicis* prope Saintes, Sanjon in Gallia (BRUNAUD).

- * 203. **Phyllosticta Libertiana** Sacc. et March. in Rev. Myc. 1885 (*Co-* 4251
niosporium Violæ Lib.) — Peritheciis globosis, subastomis, atris, minute cellulosis, 60-70 μ . diam., dense gregariis; sporulis ellipsoideis, continuis, hyalinis, 3-4 \simeq 2-2,5. Cetera ut in notis Libert et Lambotte.

Hab. in foliis *Violæ odoratæ* in Belgio.

- * 213. **Phyllosticta Sanguinariæ** Winter in Journ. of Myc. 1885. —

Maculis sparsis, rotundatis vel parum irregularibus, determinatis, arescendo-griseis vel albidis, margine distincto, fusco-purpureo, ambitu linea elevata, fusco-atra limitatis, area indeterminata, lata, fuscidula circumdatis, 1-5 mm. latis; peritheciis epiphyllis, gregariis, erumpentibus, punctiformibus, globosis, atris, 100 μ . diam.; sporulis numerosissimis, elliptico-oblongis, sæpe uno apice parum attenuatis, hyalinis, 5-7 \approx 1,5-2,5.

Hab. ad folia viva Sanguinariæ canadensis, Missouri in Amer. bor.

- *214. **Phyllosticta althæicola** Pass. Fung. Gall. novi, in Jour. d'Hist. nat. 1885, n. 4, p. 54. — Maculis determinatis, subcircularibus vel irregularibus, sæpe confluentibus, arescendo expallentibus, non marginatis; peritheciis sparsis, minimis, nigris; sporulis oblongis, utrinque rotundatis, binucleatis, hyalinis, 7-10 \approx 3. 4252

Hab. in foliis Althææ officinalis prope Bric-sous-Mortagne (Charente-Inferieure) in Gallia (BRUNAUD).

- *215. **Phyllosticta papuensis** Cooke in Grevillea XV, p. 18. — Epiphylla vel amphigena; peritheciis gregariis, punctiformibus semi-immersis, atris, nitidis, poro pertusis; sporulis linearibus, rectis hyalinis, 10 \approx 1. 4253

Hab. in foliis emortuis plantæ subfruticosæ, New Guinea (REV. S. CHALMERS).

- *243. **Phyllosticta Cephalaræ** Wint. in Hedw. 1835, I. — Peritheciis in maculis albidis, margine atro-purpureo, latiusculo, cinctis, rotundatis, angulatis vel plus minus irregularibus, demum interdum confluentibus, amphigenis, gregariis, punctiformibus, globosis, fuscis verticem versus obscurioribus, poro pertusis, demum late apertis, 60-80 μ . latis; sporulis exiguis, bacillaribus, utrinque acutiusculis, unicellularibus, hyalinis, 4-5 \approx 1. 4254

Hab. in foliis vivis Cephalaræ attenuatæ ad montem Roschberg prope Somerset-East Bras. (MAC-OWAN).

- *244. **Phyllosticta ivæcola** E. et E. in Journ. of Myc. 1886, p. 37. — Maculis amphigenis, parvis, 1-2 mm. diam., albescentibus, margine brunneo, vix elevatulo cinctis; peritheciis epiphyllis, punctiformibus, 75-90 μ . diam., nigris; sporulis ovato-vel oblongo-ellipsoideis, hyalinis, 4-5 \approx 1,5. 4255

Hab. in foliis vivis Ivæ frutescentis, Plaquemines Americæ borealis.

- *252. **Phyllosticta Araliæ** Sacc. et Berl. in Rev. Myc. 1885. — Epiphylla; maculis flavo-cinereis, latis, linea ochracea cinctis; perithe- 4256

ciis minutis, sparsis vel subgregariis, tectis, ostiolo epidermidem perforante demum emergentibus, nigris; sporulis ovoideis, 4-5 \approx 1 $\frac{1}{2}$ -2, pallidissime viridulis.

Hab. in pag. superiore foliorum viventium Araliæ in Algeria. 4257

- *305. **Phyllosticta Amaranthi** E. et K. in Jour. of Myc. I, p. 4. — Maculis roseo-brunneis (2-4 mm.) margine atro cinctis; peritheciis 6-12 in quaque macula, epiphyllis, erumpentibus, amplis; sporulis oblongo-ellipticis, 2-nucleatis, 9-11 \approx 3-5.

Hab. in foliis Amaranthi retroflexi, Garden City Americæ borealis.

- *308. **Phyllosticta Dodecanthææ** Trelease Paras. Fungi Viscos. p. 16. 4258
— Maculis circularibus, brunneis, circiter 3 mm. diam.; sporulis hyalinis, ovoideo-oblongis, sæpe subsphæroideis, eguttulatis, 2-5 \approx 3,5-7.

Hab. in foliis Dodecanthææ mediæ, Stoughton Amer. bor.

- *319. **Phyllosticta Cordylinæ** Sacc. et Berl. Misc. Myc. II, n. 36. — 4259
Maculis vagis, expallentibus; peritheciis crebris, epiphyllis, punctiformibus, globoso-depressis, pertusis, 60-90 μ . diam.; sporulis oblongis, 2-guttulatis, 4-5 \approx 1, hyalinis.

Hab. in foliis Cordylinæ terminalis, Tambourine in Australia.

- *320. **Phyllosticta Danaes** Pass. in litt. Brun. in Rev. Myc. 1886, 4260
p. 140. — Maculis amplis, irregularibus vel indeterminatis, griseis dein albescens, margine tenui, brunneo; peritheciis amphigenis, minutis, globosis, nigris, primum tectis; sporulis ovoideis, non guttulatis, hyalinis, 8 \approx 5.

Hab. in cladodiis Rusci racemosi in Horto Botanico Rochefort Galliæ (BRUNAUD).

- *335. **Phyllosticta cocoina** Sacc. in Rev. Myc. 1885, p. 158. — Ma- 4261
culis amphigenis, subcircularibus, amœne rubro-crocatis, anguste marginatis; peritheciis paucis, punctiformibus, atris, innatis; sporulis ellipsoideis, 7-8 \approx 6-7, hyalinis, pauciguttulatis.

Hab. in foliis Cocos nuciferæ in insula Tahiti (BRUNAUD).

- *336. **Phyllosticta palmicola** Cooke in Grevillea XIV, p. 90. — Ma- 4262
culis irregularibus, amphigenis, albido-cinereis, margine subelevato fusco; peritheciis subinnatis, atris, minutis, pertusis, plerumque numerosissimis; sporulis elliptico-cylindraceis, hyalinis, 5 \approx 2.

Hab. in foliis Palmarum, Daintree Australiæ.

PHOMA Fr. em. Desm. — Sacc. Syll. III, p. 65.

- *24. **Phoma viventis** Cooke in Grevillea XIV, p. 2. — Gregaria; 4263

peritheciis punctiformibus vel leniter elongatis, minutis, atris, cuticula incolora, demum longitudinaliter fissa tectis; sporulis subfusiformibus, utrinque obtusis, enucleatis, hyalinis, $6-7 \approx 2,5$.

Hab. in ramulis vivis *Lonicerae*, Kew Britanniaë.

- *35. **Phoma Philadelphi** Cooke in Grevillea XIII, p. 93. — Peritheciis 4264
minutis, gregariis, seriatim dispositis, epidermide vix elevata tectis, cortice immersis, depressis, nigris, pertusis; sporulis cylindricis, utrinque obtusis, enucleatis, $12 \approx 2,5$, hyalinis.

Hab. in ramulis *Philadelphi*, Kew Brit. — Habitu fructificationeque a *Ph. Landeghemia*, quæ simul occurrit, distincta.

- *37. **Phoma Celastrinae** Cooke in Grevill. XIII, p. 92. — Gregaria 4265
v. aggregata; peritheciis globosis, atris, epidermide tectis eamque ostiolo punctiformi, atro, nitido perforantibus; sporulis lanceolatis, utrinque attenuatis, binucleatis, hyalinis, $13 \approx 5$, primo stipitatis.

Hab. in ramulis *Evonymi americani*, Kew Britanniaë.

- *39. **Phoma elæagnella** Cooke in Grevillea XIV, p. 4. — Sparsa vel 4266
subgregaria, minuta, cuticula convexa tecta; peritheciis depresso globosis, atris; sporulis ovoideis, profusis, continuis, hyalinis, enucleatis, $5 \approx 2,5$; basidiis indistinctis.

Hab. in ramis *Elæagni*, Kew Britanniaë.

47. **Phoma pithya** Sacc. Syll. III, p. 74. var. **Taxodii** Sacc. in Rev. 426
Myc. 1885. — Sporulis $7-8 \approx 2$, biguttulatis, hyalinis.

Hab. in cortice *Taxodii* in Gallia (ANGELE ROUMEGUÈRE).

- *54. **Phoma Pruni** Peck in 38 Rep. St. Mus. p. 95. — Peritheciis 4267
minutis, vix prominulis, subconicis, primum epidermide tectis, demum erumpentibus, atris; sporulis oblongo-ellipticis vel subfusiformibus, binucleatis, $8-10 \approx 3-4$; hyalinis; basidiis longitudinem sporularum æquantibus.

Hab. in ramis emortuis *Pruni virginianæ* in Amer. bor.

- *55. **Phoma Pruni-lusitanicæ** Cooke in Grevillea XIII, p. 93. — Gre- 4268
garia; peritheciis subglobosis, ad extremitatem ramulorum collectis, cuticulam vix decoloratam, ostiolis minutis perforatam, elevantibus; sporulis fusiformibus, binucleatis, hyalinis, $10 \approx 4$.

Hab. in ramulis *Pruni lusitanicæ*, Kew Britanniaë.

- *56. **Phoma Prunorum** Cooke in Grevillea XIII, pag. 92. — Dense 4269
gregaria, in ramulis minoribus, cortice elevata, non decolorata, longitudinaliter fissa tecta; peritheciis subglobosis, atris, mediæ magnitudinis; sporulis late lanceolatis, utrinque attenuatis, binucleatis, hyalinis, $10 \approx 4,5$.

Hab. in ramulis emortuis *Pruni Lauro-cerasi*. Kew Brit.

- *60. **Phoma opulifolia** Cooke in Grevillea XIV, p. 2. — Gregaria; 4270
peritheciis punctiformibus, depresso globosis, cuticula non decolorata, leniter elevata tectis; sporulis anguste lanceolatis, continuis, binucleatis, $10 \approx 2,5$; basidiis brevibus.

Hab. in ramulis Spireæ opulifoliæ, Kew Brit. — Nonnullis notis a *Ph. Sorbariæ* differt.

- *62. **Phoma Amelanchieris** Cooke in Grevillea XIII, p. 93. — Sub- 4271
gregaria, corticola; peritheciis cortice immersis, cuticulam elevantibus et rumpentibus, globosis, atris, mediæ magnitudinis; sporulis subfusiformibus, obtusis, binucleatis, $8 \approx 2,5-3$; basidiis tenuibus, curvis, sporulis triplo longioribus.

Hab. in ramulis Amelanchieris, Kew Britannicæ.

- *74. **Phoma aromatica** Cooke in Grevillea XIV, p. 4. — Peritheciis 4272
gregariis, cuticula leniter convexa tectis, depressis, minutis, leniter papillatis; sporulis sublanceolatis, continuis, binucleatis, hyalinis, $8-10 \approx 3-3,5$; basidiis brevibus.

Hab. in ramulis Calycanthi occidentalis, Kew Britannicæ.

- *81. **Phoma Myricæ** Karst. in Hedwigia 1884, p. 6. — Peritheciis 4273
in cæspites, per peridermium erumpentes aggregatis, subsphæroides, pressione mutua varie compressis difformibusve, glabris, atris, 0,4 mm. diam.; sporulis sphæroides vel ellipsoideo-sphæroides, hyalinis vel chlorino-hyalinis, circiter 2 μ . diam. vel $3 \approx 2$.

Hab. in ramis Myricæ Galis emortuis prope Vasa Fennicæ.

84. **Phoma Viniferæ** Cooke in Grevillea XIII, p. 92, *Phoma viticola* 463
Sacc. Syll. III, p. 79, non *Phoma viticola* Sacc. Syll. III, n. 653. — Sporulæ 7 \approx 4, enucleatæ.

- *97. **Phoma scobina** Cooke in Grevillea XIII, p. 92. — Peritheciis 4274
subcutaneis, gregariis, ad nodos congestis, cuticulam perforantibus, subglobosis, atris, depressis; sporulis fusoides vel clavatis, subinde binucleatis, hyalinis, $10-12 \approx 3-3,5$; basidiis rectis.

Hab. in ramulis Fraxini excelsioris, sociâ *Diaporthe scobinâ*, cujus est spermogonium, Kew, Darenth, Highgate Brit.

- *98. **Phoma Forsythiæ** Cooke in Grevillea XIII, pag. 92. — Laxe 4275
gregaria; peritheciis punctiformibus, subglobosis, epidermide vix elevata, demum ostiolo minuto fissâ, tectis; sporulis ellipticis, minutis, enucleatis, hyalinis, $3-5 \approx 2$; basidiis brevibus.

Hab. in ramis Forsythiæ, Kew Britannicæ, et F. viridissimæ, Saintes Gallicæ. — Species omonyma cl. Brunaudii (Rev. Myc. 1886, p. 140), nil differt, nisi sporulis paullo longioribus, nempe $7-8 \approx 2-2,5$.

- *99. **Phoma Rhodoræ** Cooke in Grevillea XIV, p. 3. — Maculis apicalibus vel marginalibus latis, irregularibus, brunneis; peritheciis gregariis, minutis, punctiformibus, atris, immersis, oculo nudo vix visibilibus; sporulis numerosis, minutis, subellipticis, hyalinis, 4-5 \approx 2; basidiis brevibus. 427

Hab. in foliis vivis Rhododendri, Kew Britannia.

- *100. **Phoma Rhododendri** Cooke in Grevillea XIII, p. 93. — Subgregaria, in sarmentis parvis, dealbatis, minuta, epidermide elevata sed vix decolorata tecta; peritheciis subglobosis, atris; sporulis minutis, ovoideis, hyalinis, enucleatis, 4-5 \approx 2, 427

Hab. in ramulis Rhododendri, Kew Britannia.

- *101. **Phoma Jasmini** Cooke in Grevillea XIV, p. 2. — Peritheciis sparsis, cuticula tectis, prominentibus, atris, subglobosis, *Phoma domestica* latioribus et magis prominulis; sporulis subfusiformibus, binucleatis, 9-10 \approx 3. 427

Hab. in ramis Jasmini officinalis, Kew Brit. — Sæpe occurrit *Ph. domestica*.

130. **Phoma Polygalæ** Cooke et Harkness in Grevillea XIII, p. 111. — Caulicola; peritheciis gregariis, subcutaneis, globoso-depressis, pertusis, epidermide nitida velatis; sporulis subfusoideis, enucleatis, utrinque obtusis, hyalinis. 427

Hab. in caulibus Polygalæ in California (HARKNESS).

131. **Phoma lirelliformis** Sacc. Syll. III, pag. 87, var. **Tini** Brunaud in Rev. Myc. 1886, p. 140. — Sporulis oblongis, 8 \approx 2,5-3, biguttulatis; basidiis 15-16 \approx 2. 510

Hab. in ramis emortuis decorticatisque Viburni Tini, Santes Gallia.

- *135. **Phoma Beckhausii** Cooke in Grevillea XIII, p. 91. — Peritheciis subglobosis, sparsis, cortice leniter elevata tectis, indistinctis; sporulis sublanceolatis, continuis, sæpe binucleatis, 8-10 \approx 3. 428

Hab. in ramulis Viburni lantanæ, sociâ *Diaporthe Beckhausii*, Dartfoord, Kew Britannia.

- *140. **Phoma Barbari** Cooke in Grevillea XIV, p. 3. — Peritheciis laxe gregariis, epidermide tectis, convexis, non erumpentibus, demum pertusis; sporulis ovoideis, binucleatis, hyalinis, 5 \approx 3. 428

Hab. in ramulis Lycii barbari, Kew Britannia.

- *146. **Phoma Staphyleæ** Cooke in Grevillea XIV, p. 2. — Gregaria; peritheciis punctiformibus, cuticulâ demum nigrescente tectis, dein prominulis, tandem liberis; sporulis ellipticis, continuis, enucleatis, 5-8 \approx 3-4; basidiis non distinctis. 428

Hab. in ramulis *Staphyleæ pennatæ*, *S. trifoliatæ* et *S. Colchici*, Kew Britannicæ.

- * 151. **Phoma Loti** Cooke in *Grevillea* XIV, p. 2. — Gregaria; peritheciis globosis, atris, tectis, cuticulam elevantibus, ostiolo prominente pertusam; sporulis ellipticis, hyalinis, enucleatis, $5 \approx 2$; basidiis nullis vel obsoletis. 4283

Hab. in ramulis *Diospyri Loti*, Kew Britannicæ.

- * 157. **Phoma radicans** Cooke in *Grevillea* XIII, p. 32. — Caulicola; peritheciis gregariis in maculis albicantibus, minutis, punctiformibus, applanatis, cuticula subtili tectis; sporulis numerosis, ovalibus, hyalinis, $3 \approx 1,5$; basidiis non distinctis. 4284

Hab. in ramulis vivis *Tecomæ radicans*, Kew Britannicæ. 4285

- * 158. **Phoma Bignonicæ** Sacc. Bomm. et Rouss. in *Bull. Soc. R. Bot. Belg.* 1886, p. 176. — Peritheciis sparsis, subepidermicis, nigris, minutis, $\frac{1}{4}$ mm. diam., ostiolo erumpente donatis; sporulis hyalinis, irregulariter ellipsoideis, subinde guttulatis, $4 \approx 2,5-3$.

Hab. in ramis emortuis *Bignonicæ radicans*, Tervueren Belg. — A *Ph. Tecomæ* distincta.

- * 159. **Phoma Platanoidis** Cooke in *Grevillea* XIII, p. 93. — Peritheciis subcutaneis, erumpentibus, gregariis epidermidem rumpentibus et ramulum rugosum reducentibus; sporulis fusiformibus, acutis, binucleatis, hyalinis, $7-8 \approx 3$; basidiis rectis, sporularum duplo vel amplius longis. 4286

Hab. in ramulis *Aceris pseudoplatani*, Kew Brit. — Adest simul *Calospora Platanoidis*, cujus verisimiliter est spermogonium.

- * 160. **Phoma obtusula** Sacc. et Br. *Misc. Myc.* II, p. 24. — Peritheciis hinc inde gregariis, erumpentibus, globulosis, obtusulis, $\frac{1}{4}$ mm. diam., atris, nitidulis, vix papillatis; sporulis ovato-oblongis, utrinque acutiusculis, $8-12 \approx 4$, hyalinis; basidiis brevibus. 4287

Hab. in ramulis corticatis *Aceris campestris*, Troyes Gallicæ (BRIARD).

- * 187. **Phoma crassipes** Cooke in *Grevillea* XIV, pag. 2. — Erumpens, subsparsa; peritheciis amplis, atris, opacis, subglobosis, demum apice libero; sporulis ovoideis, continuis, hyalinis, enucleatis, $6 \approx 4$. 4288

Hab. in ramulis *Broussonetiæ papyrifera*, Kew Brit.

- * 189. **Phoma Celtidis** Cooke in *Grevillea* XIV, p. 3. — Peritheciis prominentibus, convexis, laxe gregariis, cuticula tectis eamque ostiolo atro, punctiformi perforantibus; sporulis ovoideis, enucleatis, hyalinis, $5 \approx 3,5$. 4289

Hab. in ramulis *Celtidis occidentalis*, Kew? Britannia.

- *213. **Phoma Cunningamia** Pass. et Roum. in Rev. Myc. 1885, p. 172. 429
 — Peritheciis sparsis, punctiformibus, atris; sporulis oblongiusculis, hyalinis, basidiis filiformibus, elongatis suffultis.

Hab. in foliis aridis *Cunningamiae sinensis* in Horto Matensi Gallia.

- *220. **Phoma deflectens** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. Belg. 1886, pag. 176. — Peritheciis ad basim foliorum gregariis, inæqualiter globoso-oblongis, depressis, epidermidem perforantibus, $1 \approx \frac{1}{2} - \frac{3}{4}$ mm. diam; sporulis linearibus, hyalinis, biguttulatis, $7-12 \approx 2-3$; basidiis linearibus, $10-12 \approx 1,5$. 429

Hab. in foliis emortuis *Araucariae imbricatæ* in silva Cambre Belgii.

- *222. **Phoma Abietis** Briard. in litt. — Peritheciis minutissimis, dense longitudinaliter gregariis, mox superficialibus, vix $\frac{1}{10}$ mm. diam., atris, nitidulis, subglobosis, amphigenis; sporulis oblongis, cylindraceis, utrinque obtusis, rectis, $6-8 \approx 2-3$, hyalinis; basidiis non visis. 429

Hab. in foliis emortuis *Abietis piceæ*, Troyes Gallia.

- *249. **Phoma cistina** Cooke in Grevillea XIV, p. 3. — Dense gregaria, subcutanea, subinde erumpens; peritheciis subglobosis, atris, siccitate collapsis; ostiolo interdum brevi, cuticulam perforante, subinde duplo vel triplo perithecii diametro longiore flexuoso; sporulis subcylindraceis vel fusoides, utrinque obtusis, sæpe minute binucleatis, hyalinis, $6-7 \approx 2,5$; basidiis circiter sporulis duplo longioribus. 429

Hab. in ramulis *Cisti laurifolii*, Kew Britannia.

- *256. **Phoma cerasina** Cooke in Grevillea XIV, p. 90. — Epiphylla; peritheciis punctiformibus, densissime gregariis, semiimmersis, atris, nitidis, poro pertusis; sporulis subcylindricis, utrinque rotundatis, rectis, enucleatis, hyalinis, $15-16 \approx 3,5$. 429

Hab. in foliis emortuis *Pruni Lauro-cerasi*, Aiken S. Carol. (RAVENEL).

- *260. **Phoma Camilleæ** Cooke in Grev. XIII, p. 4. — Hypophylla; peritheciis sparsis, minutis, membranaceis, vix 100 μ . diam, poro pertusis; sporulis ellipticis, nucleis binis, magnis repletis, $10 \approx 5$. 429

Hab. in foliis *Camilleæ*, Theæ Johore Britannia.

- *267. **Phoma quercicola** Sacc. et Briard in Rev. Myc. 1886. — Peritheciis innatis, erumpentibus, nigris, nitidis, epiphyllis, approximatis, poro pertusis, in maculis griseis, irregularibus; sporulis ovato-oblongis, obtusis, continuis, hyalinis, $4-6 \approx 1,5-2$. 429

Hab. in pag. sup. foliorum emortuorum *Quercus*, Troyes Galliæ (BRIARD).

- *283. **Phoma Galacis** Cooke in Grevillea XIV, p. 90. — Maculis irregularibus, pallide brunneis vel cinerescentibus, indistincte marginatis; peritheciis gregariis, minutis, 80 μ . diam., basi immersis, punctiformibus, atris, nitentibus; sporulis cylindræis, utrinque rotundatis, 2-4 nucleatis, hyalinis, 12-15 \approx 4. 4297

Hab. in foliis emortuis delapsisque *Galacis aphyllæ*, Kew Britanniæ.

- *296. **Phoma dispersa** Cooke in Grevillea XIII, p. 93. — Hypophylla; peritheciis sparsis, crassis, subglobosis, erumpentibus dein sub-superficialibus, nigris, opacis; sporulis ellipticis, continuis, hyalinis, enucleatis, 15 \approx 6. 4298

Hab. in foliis delapsis *Platani*, Kew Britanniæ.

- *300. **Phoma millepunctata** Desm. XX, Not. p. 11. — Amphigena; maculis nullis; peritheciis innatis, minutis, numerosissimis, sparsoproximatis, globosis, 0,075-0,1 mm. diam. utrinque prominulis, rufo-pallidis, dein fuscis, depressis; ostiolo punctiformi; sporulis paucis, oblongis, exiguis, 5 μ . longis. 4399

Hab. in foliis delapsis *Mori albæ* in Gallia. — Non *Phoma millepunctata* Penz. — Sacc. Syll. III, pag. 105, quæ *Macrophoma* (Confr. Berlese et Voglino sopra un Nuovo gen. di Sferops. in Atti Soc. Veneto-Trentina 1886).

- *325. **Phoma endorhodioides** Sacc. et Briard Champ. nouv. de l'Aube n. 12. — Peritheciis sparsis, innatis, subepidermicis, oblongis vel discoideis, nucleo roseo; ostiolo, papillato, epidermidem nigrefactam perforante; sporulis ovato-oblongis, obtusis, hyalinis, 2-guttulatis, 12-16 \approx 4,5. 4300

Hab. in caulibus siccis *Thalictri flavi*, Troyes Galliæ (BRIARD).

- *336. **Phoma Herminieræ** Cooke in Grevillea XIII, p. 93. — Peritheciis minutis, dense gregariis, cortice nidulantibus, primo cuticula stellatim rupta tectis, atris; sporulis lanceolatis, binucleatis, hyalinis, 10 \approx 3,5; basidiis simplicibus vel furcatis, elongatis, 40 μ . longis. 4301

Hab. in cortice *Herminieræ elaphroxylonis*, Kew Brit. 4302

- *349. **Phoma Alcearum** Cooke in Grevill. XIII, p. 94. — Caulicola; peritheciis numerosis, dense gregariis in macula lata, punctiformibus, membranaceis, fuscis, senectute atris, depressis, epidermide tectis; sporulis ellipticis, obtusis, enucleatis, hyalinis, 15 \approx 5. 4302

Hab. in caulibus *Altheæ roseæ*, Kew Britannicæ. — Habitu *Ph. nebulosæ* similis.

- *360. **Phoma Grovei** Berl. et Vogl. *Phoma rubella* Grov. New Not. 4300
Fung. p. 8, n. 50 (non Cooke). — Peritheciis gregariis, olivaceis, tenuibus, $\frac{1}{3}$ - $\frac{1}{4}$ mm. diam., lenticularibus, breve papillatis, sub epidermide, late cruentata, immersis, ostiolo pertuso, vix emergente; sporulis oblongis, utrinque 1-guttatis, 6-7 \approx $2\frac{1}{2}$ -3, rectis, hyalinis.

Hab. in caulibus emortuis *Cardui*, prop. Three Shire Oak, Brit., sociâ *Metasphæriâ rubellâ*, cujus vix dubie spermogonium habenda.

- *362. **Phoma Solidaginis** Cooke in Grevillea XIII, pag. 95. — Cauli- 4304
cola; peritheciis gregariis, numerosis, primo cuticula tectis dein convexis, atris, nitentibus, poro minuto pertusis; sporulis anguste ellipticis, 9-10 \approx 2, binucleatis; basidiis brevibus.

Hab. in caulibus *Solidaginis canadensis*, Kew Brit.

- *373. **Phoma perpusilla** Karst. Symb. ad Myc. fenn. p. 23. — Peri- 4305
theciis superficialibus, hemisphæricis, rotundatis v. oblongatis, astomis, atris, glabris, 0,1 mm. diam.; sporulis elongatis, hyalinis, 6-7 \approx 1,5.

Hab. in ferulis putrescentibus *Anthrisci* pr. Aboam Fennicæ.

- *374. **Phoma microspora** Sacc. in Rev. Myc. 1885, p. 158. — Perithe- 4306
ciis seriatim dispositis, laxè gregariis, epidermide velatis, globulosis, atris $\frac{1}{4}$ mm. d.; sporulis ovoideis, perexiguis, 2-3 \approx 1-2, hyalinis.

Hab. in caule *Athamanthæ siculæ* in Algeria (TRABUT).

- *375. **Phoma Karstenii** Berl. et Vogl. *Phoma microsperma* Karst. 4307
Symb. Myc. IV, pag. 153. (non Preuss). — Peritheciis gregariis, subcutaneis, demum erumpentibus, subsphæroideis, tandem poro pertusis, atris, circiter 0,2 mm. latis; sporulis elongatis, rectis vel curvulis, hyalinis, 2-4 \approx 0,5.

Hab. ad caules emortuos *Umbelliferarum* in regione Vasaënsi Fennicæ.

- *376. **Phoma olivaceo-pallens** Karst. Symb. XV, pag. 153. — Peri- 4308
theciis gregariis, subcutaneis, applanatis, orbicularibus, olivaceo-vel fusco-pallentibus, siccis et adultioribus nigrescentibus, poro sæpe pallescente pertusis, circiter 0,3 mm. latis; sporulis oblongatis, utrinque obtusis, rectis biguttulatis, 4-6 \approx 2.

Hab. ad caules emortuos *Umbelliferarum* in regione Vasaënsi Fennicæ.

- *377. **Phoma rubella** Cooke in Grevillea XIV, p. 3. — Peritheciis 4309

collectis in maculis indeterminatis, semiimmersis, depressis, atris, minute papillatis; sporulis anguste ellipticis, enucleatis, continuis, hyalinis, $7 \approx 2$.

Hab. in caulibus emortuis Umbelliferarum, Kew Brit.

- *379. **Phoma Lycopersici** Cooke in Grevill. XIII, p. 94, *Phoma her-* 4310
barum Cooke Fungi Brit. II, 415. — Caulicola; peritheciis punctiformibus, nigris, dense gregariis, primum epidermide tectis, demum plus minusve erumpentibus; sporulis lanceolatis, binucleatis, $12 \approx 4$.

Hab. in caulibus *Lycopersici*, Forden Britannicæ (Vize).

- *380. **Phoma Solani** Cooke et Hark. in Grevillea XIII, p. 16. — Gre- 4311
garia; peritheciis minutis, membranaceis, subglobosis, papillatis tectis; sporulis ellipticis, hyalinis, $6-7 \approx 4$.

Hab. in caulibus *Solani* in California (HARKNESS).

- *387. **Phoma Mercurialis** Brunaud in Rev. Myc. 1886, pag. 140. — 4312
Peritheciis subglobosis, depressis, diu epidermide tectis, demum erumpentibus, brunneo-nigris vel atris, pertusis; sporulis subovoideis, $8 \approx 3$, binucleatis, hyalinis; basidiis nullis vel obsoletis.

Hab. in caulibus emortuis *Mercurialis annuæ*, Saintes Gallicæ.

- *392. **Phoma Leonuri** Let. in Rev. Myc. 1884, pag. 229. — Peri- 4313
theciis punctiformibus, sæpe sub lente ovoideis, nigris, numerosis, sparsis, primo epidermide tectis, demum, eâ ruptâ, prominulis, poro pertusis; sporulis hyalinis, ovatis, $4-5 \approx 2$.

Hab. in caulibus exsiccatis *Leonuri cardiacæ*, Seine infer. Gallicæ.

- *394. **Phoma Lysimachicæ** Cooke in Grevillea XIII, p. 94. — Cauli- 4314
cola, laxe gregaria, punctiformis; peritheciis atris, leniter cuticulam nigrescentem elevantibus, minutis, subglobosis; sporulis late lanceolatis, binucleatis, $10 \approx 4,5-5$; basidiis brevibus, rectis.

Hab. in caulibus *Lysimachicæ vulgaris*, Kew Britannicæ.

- *395. **Phoma Labiatarum** Cooke in Grevillea XIII, p. 95. — Cauli- 4315
cola; peritheciis sparsis, punctiformibus, minutis, leniter prominentibus, convexis, atris, lucentibus, non papillatis; sporulis ovalibus, hyalinis, $5 \approx 3$; basidiis brevibus.

Hab. in caulibus emortuis *Marrubii*, Kew Britannicæ.

- *406. **Phoma Dipsaci** Cooke in Grevillea XIII, p. 94. — Caulicola; 4316
peritheciis gregariis, sed non stipatis, subglobosis, papillatis, cuticulam demum longitudinaliter perforatam elevantibus; sporulis sublanceolatis, obtusis, binucleatis, $9-10 \approx 3,5$.

Hab. in caulibus *Dipsaci silvestris*, Kew Britanniaë.

- * 411. **Phoma Polemonii** Cooke in Grevillea XIII, pag. 94. — Cauli- 4317
cola; peritheciis gregariis, globoso-depressis, atris, lucentibus, acute
distincteque ostiolatis demum cuticula secessa liberis; sporulis an-
guste ellipticis, indistincte nucleatis, $10 \approx 3$.

Hab. in caulibus *Polemonii cœrulei*, Kew Britanniaë.

- * 412. **Phoma Oudemansii** Berl. et Vogl. *Phoma Polemonii* Oudem 4318
Contr. à la Flore myc. de Nowaja Semlja p. 16, t. I, f. 18 (non
Cooke). — Peritheciis phyllogenis, subcarbonaceis, innato-erum-
pentibus, sparsis, minutis; sporulis hyalinis, oblongo-ovalibus, utrin-
que obtusis, $11\frac{2}{3} \approx 4\frac{2}{3}$.

Hab. in *Polemonio pulchello* in Nowaja Semlja.

414. **Phoma herbarum** Sacc. Syll. III, p. 133, v. * **Ph. Tetragonis** Sacc. 793
et Berl. in Rev. Myc. 1886. — Peritheciis minutis, sub epidermide
nidulantibus, sparsis, ostiolo minuto, vix protuberante; sporulis
ovoideis, quandoque biguttatis, $5 \approx 2$, hyalinis; basidiis non visis.

Hab. in ramulis putrescentibus *Tetragonis expansæ* in
Algeria.

- * 411. **Phoma Calystegis** Cooke in Grevillea XIII, pag. 94. — Cau- 4319
licola, gregaria; peritheciis prominentibus, amplis, subglobosis, cu-
ticulam nigrefactam elevantibus, interdum maculis irregularibus, al-
bicantibus insidentibus; sporulis sublanceolatis, utrinque acutis, bi-
nucleatis, hyalinis, $7,5-8 \approx 3,5$.

Hab. in caulibus emortuis *Calystegis sepium*, Kew, High-
gate, Dartford Britanniaë.

- * 417. **Phoma sanguinolenta** Grove New Not. Fung. p. 8, n. 49. — 4320
Peritheciis laxè gregariis, atris, opacis, $\frac{1}{3}$ mm. diam., epidermide
libroque solutis inter fibras ligneas, flexuosas, splendide purpureo-
tinctas nidulantibus, demum emersis, globosis compressivis, con-
ico-papillatis; hyphis purpureis, parce septatis, 3μ . crass. vestitis;
sporulis oblongis, utrinque 1-guttatis, $6-7 \approx 2\frac{1}{2}-3$, rectis, hyalinis.

Hab. ad basim stipitum *Cardui putrescentium* prope Three
Shire Oak, Brit., sociâ *Leptosphæriâ cruentâ*, cujus haud dubie
spermogonium.

- * 418. **Phoma Polygonorum** Cooke in Grevill. XIV, pag. 3. — Laxe 4321
gregaria; peritheciis minutis, punctiformibus, epidermide ostiolo
minuto perforata tectis; sporulis obtuse ellipticis, continuis, hya-
linis, distincte nucleatis, $12 \approx 3$.

Hab. in caulibus *Polygoni cuspidati*, Kew Britanniaë.

- * 419. **Phoma Chamænerionis** Brunaud in Rev. Myc. 1886, p. 140. — 4322

Peritheciis globuloso-compressis, sparsis vel subgregariis in series dispositis vel confluentibus, nigris, primum tectis, dein epidermidem ostiolo rumpentibus, macula plus minus nigrescente elongato-lanceolata, subcorticali, nigro-limitata insidentibus; sporulis oblongis, rectis, $8 \approx 2-2,5$, binucleatis, hyalinis; basidiis nullis vel obsoletis.

Hab. in caulibus emortuis *Epilobii angustifolii*, Saintes Galliæ. — A *Ph. Epilobii* sporulis eguttulatis differt.

- * 420. **Phoma Onagracearum** Cooke in Grevillea XIII, p. 95. — Caulicola; peritheciis sparsis, cuticola leniter elevata, demum fissa tectis; sporulis ellipticis, binucleatis, $6-8 \approx 3,5-4$; basidiis brevibus. 4323

Hab. in caulibus *Ænotheræ biennis* et *Epilobii angustifolii*, Kew Britanniæ.

- * 425. **Phoma Astragali Alpini** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 15, t. I, f. 17. — Peritheciis caulogenis, sparsis, atris, primo absconditis, denique superficialibus, depresso-globosis, ostiolo breve conico, $170-200 \mu$. diam.; sporidiis dilutissime flavescentibus, continuis, $6 \approx 2\frac{1}{3}$, rectis, utrinque obtusatis, vacuolis in exemplis nostris siccatis perraro distinguendis. 4324

Hab. in Astragalo alpino in Nowaja Semlja.

- * 426. **Phoma Astragali** Cooke et Hark. in Grevillea XIII, p. 111. — Caulicola, tecta; peritheciis depresso, semiimmersis, epidermide velatis; sporulis subfusoides, binucleatis, hyalinis. 4325

Hab. in caulibus *Astragali* in California (HARKNESS).

- * 475. **Phoma Pedicularis** Fuckel in Heuglin Reisen Nordpol. vol. III, Oud. Contrib. Myc. p. 5. — Peritheciis ab epidermide tectis, depresso-globosis, atris, mediæ magnitudinis, ostiolo brevi, cylindrico erumpente, atro; sporidiis cylindræis, rectis, biguttulatis, $6 \approx 2$ hyalinis. 4326

Hab. in foliis exsiccatis *Pedicularis* cujusdam in insula Nowaja Semlja.

- * 480. **Phoma Caryophylli** Cooke in Grevillea XIII, p. 94. — Peritheciis amplis, convexis, atris, lucentibus, maculis indefinitis, albicantibus insidentibus; sporulis fusiformibus, utrinque subobtusis, vix distincte nucleatis, hyalinis, $9 \approx 3$. 4327

Hab. in calicibus et subinde in pedunculis florum *Dianthi* culti, Shrewbury Brit. (REV. W. LEIGHTON).

- * 482. **Phoma rheina** Thüm. et Boll. Fung. lit. austr. in Soc. Adr. Sc. Nat. 1885, pag. 12, n. 440. — Peritheciis epiphyllis, minutis, gregariis, in macula subparva, subsinuosa, atris, semiimmersis, glo- 4328

bosulis, ostiolo minimo; sporulis numerosissimis, minutissimis, ovoideis, utrinque rotundatis, simplicibus, enucleatis, achrois, $1,5 \approx 1$.

Hab. in foliis vivis vel languidis Rhei Rhapsontici in Gortia.

- * 187. **Phoma Lupini** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, p. 6. — Peritheciis minutis, subsuperficialibus, atris, dense gregariis, in maculis 2-3 mm. diam. confluentibus, magnam partem paginae inferioris foliorum occupantibus superioremque pallide brunneo colorantibus; sporulis oblongo-hyalinis, $2,5 \approx 1$.

Hab. in foliis vivis Lupini? Falcon Valley Amer. bor.

- * 491. **Phoma Julibrissin** Pass. et Roum. in Rev. Myc. 1885, p. 172. — Peritheciis laxe gregariis vel sparsis, subglobosis, atris; sporulis cylindricis, numerosissimis, minutis, hyalinis, utrinque nucleatis, $4-5 \approx 2,5$; basidiis nullis vel obsoletis.

Hab. ad legumina fracidia Mimosæ Julibrissin cultæ in Horto Mimatensi Gallia (Reliquiæ Prostr.)

- * 511. **Phoma conigena** Karst. in Rev. Myc. 1885, p. 106. — Peritheciis sparsis vel subgregariis, erumpentibus, mox superficialibus, difformibus, ut plurimum rotundatis, demum ore rimoso dehiscentibus, atris, 0,2-0,3 mm. latis; sporulis oblongatis, fusoides, eguttulatis, hyalinis, 6-9 μ . longis.

Hab. in squamis conorum emortuorum Pini silvestris ad Mustiala Fennia. — Ab affinibus *Phoma Pini*, *Ph. Pitlospori* et *Ph. pithya*, peritheciis mox superficialibus statim dignoscenda.

- * 515. **Phoma sapinea** Pass. in herb. Roum. in Rev. Myc. 1886, p. 91. — Peritheciis gregariis, epidermide velatis, subglobosis vel oblongis, fuscis; sporulis oblongis, utrinque rotundatis, enucleatis, hyalinis, $5 \approx 2,5$; basidiis nullis vel obsoletis.

Hab. in squamis exsiccatis conorum Abietis excelsæ, Parma Ital. bor. (PASSERINI).

- * 553. **Phoma Chamæropis** Cooke in Grevillea XIII, pag. 95. — Peritheciis erumpentibus, gregariis, subglobosis, atris, opacis, magnitudine irregularibus, perforatis; sporulis ellipticis, obtusis, enucleatis, hyalinis, $4-5 \approx 2$.

Hab. in petiolis Chamæropis aliarumque palmarum, Kew Britannia. — A *Ph. cocoina* non dissimilis, sed sporulis duplo minoribus.

- * 554. **Phoma Cycadis** Sacc. et Berl. in Rev. Myc. 1886. — Peritheciis sparsis, primum tectis dein ostiolo protuberante nitidis, conoideis vel conoideo-applanatis, 150-200 μ . diam.; sporulis elli-

psoides, minutis, $6 \approx 2$, hyalinis, basidiis longiusculis, cylindræis, simplicibus, $18-20 \approx 2$, suffultis.

Hab. in pedunculo emortuo *Cycadis revolutæ* Algeriæ. — Cum *Chatophoma Cycadis*, cui magnitudine sporularum nec non matrice affinis, comparanda nec quidem.

- *556. **Phoma Magnusii** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. 4335
Belg. 1886, p. 177. — Peritheciis numerosis, sparsis, lenticularibus, epidermide tectis, ostiolo papilliformi, erumpente donatis; sporulis numerosis, hyalinis, ellipsoideis, biguttulatis, $6-7 \approx 2,5$.

Hab. in pag. inf. et sup. foliorum *Phœnicis dactyliferæ*, Gand Belgii.

- *587. **Phoma Acori** Cooke in Grevillea XIII, p. 95. — Foliicola; pe- 4336
ritheciis gregariis, punctiformibus, minutis, numerosis, cuticula tectis, siccis minutissimis, membranaceis, brunneis, sporulis ovoideis vel ellipticis, obtusis, $6-8 \approx 3$.

Hab. in foliis emortuis *Acori calami*, sociâ *Leptosphæriâ acorellâ*, Totteridge, Kew Britannia.

- *589. **Phoma tamicola** Cooke in Grevillea XIII, p. 95. — Caulicola; 4337
peritheciis gregariis, subglobosis, mox depressis, cuticula nigrescente, ostiolo minuto demum perforata tectis; sporulis obtuse fusiformibus, binucleatis, $9-10 \approx 3$.

Hab. in caulibus *Tami communis*, Neatishead, Norfolk Britannia.

- *613. **Phoma Iridum** Sacc. in Mich. II, p. 126. — Peritheciis gre- 4338
gariis, subcutaneis, vix erumpentibus, globoso-lenticularibus, $\frac{1}{8}$ mm. diam., ostiolo obtuso, sporulis, oblongis, $10 \approx 2\frac{1}{2}$ suffultis.

Hab. in foliis *Pseudacori*, Toulouse Gallia (ROUMÉGUÉRE).

616. **Phoma Ammophilæ** Dur. et Mont. — Sacc. Syll. III, p. 166 (Ve- 995
risimiliter). — Sporulæ ellipsoideo-oblongæ, $4-5 \approx 1,5-2$, hyalinæ.

625. **Phoma Equiseti** Desm. Sacc. Syll. III, p. 168. — Sporulæ $7,2 \approx 3$ 1004
(ANG. ROUMÉGUÉRE).

- *626. **Phoma sphærosperma** Karst. in Hedw. 1885, p. 74. — Peri- 4339
theciis sparsis, epidermide tectis, sphæroideo-applanatis, atro-fuscis, basi fusca, ostiolo rudi, epidermidem perforante, glabris, $0,2$ mm. latis; sporulis sphæroideis, hyalinis vel dilutissime flavido-hyalinis, eguttulatis, levibus, $10-15 \mu$. diam.

Hab. in caulibus putrescentibus *Equiseti fluvialis* ad Mu-
stjala Fennia.

633. **Phoma Andrachnes** Lév. Voy. p. 110, t. VI, 3, Sacc. Syll. III, 4340
p. 169. — Epi-et hypophylla, unilocularis; peritheciis globosis, ad-

natis, ostioliis prominulis, pertusis, intus nigris; sporis minimis, simplicibus, oblongo linearibus.

Hab in foliis emortuis *Arbuti Andrachnes*, Orianda-Imperiale Kossiae. — Var. **orbicularis**: peritheciis in anulum dispositis.

637. **Phoma Laricis** Lév. Voy. pag. 111, t. IV, f. 5, Sacc. Syll. III, p. 169. — Erumpens, unilocularis; receptaculis sparsis vel subseriatis globosis, nigris, ostioliis papillatis; sporis oblongo-linearibus, simplicibus pellucidis.

Hab. in conis *Laricis* in Tauria.

MACROPHOMA (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 172, Sacc. Syll. III, p. 90 ut subg. (Etym. *macro* longus magnus et *phoma*). *Phoma*, *Sphæropsis*, *Sphæronema* auctorum pro parte. — Perithecia subcutanea dein erumpentia, membranacea, subcoriacea et subcarbonacea, globosa, glabra, erostrata, ostiolo minuto, subinde obsoleto. Sporulæ ovoideæ, fusoideæ vel cylindraceæ, majusculæ vel magnæ, 15 amplius μ . longæ, sæpe granulossæ, continuæ, hyalinæ, rarissime biguttatæ. Basidia filiformia, subinde brevissima vel obsoleta constanter simplicia.

A. *Eumacrophoma* sporulis ovoideis.

a) In **Dicotyledoneis parasiticæ**.

α . Ramicolæ.

- *1. **Macrophoma macrosperma** (Karst.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 173. — *Phoma macrosperma* Sacc. Syll. III, pag. 73.
2. **Macrophoma excelsa** (Karst.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 173. — *Phoma excelsa* Sacc. Syll. III, p. 74.
3. **Macrophoma Cupressi** (Cooke et Harkness) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 173. — *Sphæropsis Cupressi* Cooke et Hark. in Grevillea XIII, p. 17. — Erumpens; peritheciis atris, obtusis, primum tectis, demum erumpentibus, epidermide circumambiente arcte adhærentibus; sporulis ellipticis, continuis, hyalinis, protoplasmate granuloso farctis, 30 = 10.

Hab. in cortice *Cupressi macrocarpi* in California (HARKNESS).

5. **Macrophoma Peckiana** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma Peckiana* Sacc. Syll. III, p. 80.
6. **Macrophoma Ampelopsidis** (C. et E.) Berl. et Vogl. in Atti Soc.

- Veneto-Trentina 1886, p. 174. — *Phoma Ampelopsidis* Sacc. Syll. III, pag. 79.
7. **Macrophoma dryina** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma dryina* Sacc. Syll. III, p. 96. 570
8. **Macrophoma Scheidweileri** (West.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma Scheidw.* Sacc. Syll. III, p. 92. 543
9. **Macrophoma salicaria** (Sacc.) Berl. et Vogl., in Atti Soc. Veneto-Trentina 1886, p. 175. *Phoma salicaria* Sacc. in Mori Enum. dei Funghi di Modena (Giorn. Bot. Ital. 1886, n. 1, p. 22). — Peritheciis laxè gregariis, subcutaneo-erumpentibus, globoso-depressis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., obtuse papillatis vel subinde fere umbilicatis, nigris; sporulis ellipsoideis, utrinque obtuse rotundatis, 28-30 \times 12-14, hyalinis, nubilosis vel guttulatis. 4342
- Hab.* in ramis emortuis Salicis in Horto Botanico Mutinensi Ital. bor.
10. **Macrophoma corticicola** (Preuss) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 175. — *Phoma corticicola* Sacc. Syll. III, p. 110. 98 653
11. **Macrophoma corylina** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 175. — *Phoma corylina* Sacc. Syll. III, p. 99. 591
12. **Macrophoma tertia** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 175. — *Phoma tertia* Sacc. Syll. III, p. 95. 562
13. **Macrophoma Laburni** (West.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 175, tab. II, fig. I. — *Phoma Laburni* Sacc. Syll. III, pag. 68. 394
14. **Macrophoma persicina** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 176. — *Phoma persicina* Sacc. Syll. III, p. 74. 434
- β. Caulicolæ.
15. **Macrophoma xanthina** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 176. — *Phoma xanthina* Sacc. Syll. III, p. 118. 702
16. **Macrophoma Heuffelii** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 176. — *Phoma Heuffelii* Sacc. Syll. III, p. 132. 790
17. **Macrophoma Janiphæ** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 176. — *Phoma Janiphæ* Sacc. Syll. III, p. 141. 833

18. **Macrophoma Ricini** (Cooke) Berl. et Vogl. in Atti Soc. Veneto- 834
Trentina 1886, p. 176, tab. III, fig. XV. — *Phoma Ricini* Sacc.
Syll. III, p. 141.
19. **Macrophoma acanthina** (Sacc. et Roum.) Berl. et Vogl. in Atti 764
Soc. Veneto-Trentina 1886, p. 177. — *Phoma acanthina* Sacc.
Syll. III, pag. 128.
20. **Macrophoma Lupini** (Cooke et Hark.) Berl. et Vogl. in Atti Soc. 4343
Veneto-Trentina 1886, pag. 177. *Phoma Lupini* Cooke et Hark.
in Grevillea XIII, pag. 111. — Caulicola; peritheciis gregariis,
subcutaneis, subglobosis, atris, epidermide nitida tectis; sporulis
elongato-ellipticis, binucleatis, hyalinis, 20.
Hab. in caule *Lupini* in California (HRKNESS)..
21. **Macrophoma Malcomiæ** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto- 4344
Trentina 1886, p. 177. *Phoma Malcomiæ* Sacc. in Rev. Myc. 1886.
— Peritheciis gregariis, subcutaneo-erumpentibus, atris globoso-
papillatis; sporulis ellipsoideis v. ovoideis, 14-18 \approx 7-8, utrinque
obtusis, granulosis, hyalinis.
Hab. in caule *Malcomiæ ægyptiacæ* in Algeria.
22. **Macrophoma Keckii** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto- 535
Trentina 1886. — *Phoma Keckii* Sacc. Syll. III, p. 90.

γ. Follicolæ.

23. **Macrophoma Taxi** (Berk.) Berl. et Vogl. in Atti Soc. Veneto- 606
Trentina 1886, p. 178. — *Phoma Taxi* Sacc. Syll. III, p. 102.
24. **Macrophoma Candollei** (Berk. et Br.) Berl. et Vogl. in Atti Soc. 624
Veneto-Trentina 1886 p. 178. — *Phoma Candollei* Sacc. Syll. III,
p. 105.
25. **Macrophoma Mirbelii** (Fr.) Berl. et Vogl. in Atti Soc. Veneto- 625
Trentina 1886, p. 179, tab. II, fig. V. — *Phoma Mirbelii* Sacc.
Syll. III, pag. 105.
26. **Macrophoma ilicella** (Sacc. et Penz.) Berl. et Vogl. in Atti Soc. 628
Veneto-Trentina 1886, p. 179, tab. II, fig. VIII. — *Phoma ilicel-
la* Sacc. Syll. III, pag. 106.
27. **Macrophoma australis** (Cooke) Berl. et Vogl. *Phoma australis* 4345
Cooke in Grevillea XV, p. 17. — Epiphylla; maculis fuscis, el-
lipticis, brunneo-cinctis, demum confluentibus; peritheciis atris, pun-
ctiformibus, semiimmersis; sporulis elongato-ellipticis, hyalinis,
granulosis, 26-30 \approx 6; basidiis brevibus.

Hab. in foliis *Eucalypti*, Melbourne Australiæ (H. WATTS).

28. **Macrophoma leucostigma** (D. C.) Berl. et Vogl. in Atti Soc. Ve- 623

- neto-Trentina 1886, p. 179. — *Phoma leucostigma* Sacc. Syll. III, p. 105.
29. **Macrophoma petiolata** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 179. — *Phoma petiolata* Sacc. Syll. III, p. 114. 675
30. **Macrophoma nobilis** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 180. — *Phoma nobilis* Sacc. Syll. III, p. 112. 663
31. **Macrophoma Araliæ** Sacc. et Berl. in Rev. Myc. 1886. Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 180, tab. V, fig. II. — Phyllogena; peritheciis maculis ochraceo-fuscis insidentibus, atris, conoideis, utramque paginam foliorum occupantibus; sporulis ovoideis vel subcylindraceis, utrinque rotundatis, guttuligeris vel protoplasmate granuloso faretis, 18-20 \approx 6-8, basidiis simplicibus, continuis suffultis. 4346
- Hab.* in utraque pagina foliorum viventium? Araliæ, Algeria.
32. **Macrophoma millepunctata** (Penz) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 180, tab. II, fig. X. — *Phoma millepunctata* Sacc. Syll. III, pag. 105 (non Lév.). 622
33. **Macrophoma glæosporioides** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 180, tab. III, fig. XIII. — *Phoma glæosporioides* Sacc. Syll. III, p. 116. 693
34. **Macrophoma collabens** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 181. *Phoma collabens* Cooke in Grevillea 1885, p. 94. — Epiphylla; peritheciis sparsis, maculas orbiculares, atras, in foliis et ramulis efformantibus, rugosis, depressis sub-superficialibus $\frac{1}{4}$ mm. diam.; sporulis ellipticis, continuis hyalinis enucleatis, 15-18 \approx 5; basidiis indistinctis. *See 2017/15* 4347
- Hab.* in foliis vivis Pruni lusitanicæ, Kew Britannicæ.
35. **Macrophoma fragilis** (Mont.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 181. — *Phoma fragilis* Sacc. Syll. III, p. 146. 869
36. **Macrophoma Surinamensis** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 181. — *Phoma Surinamensis* Sacc. Syll. III, pag. 163. 976
37. **Macrophoma Raui** (Peck.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 181. — *Phoma Raui* Sacc. Syll. III, p. 143. 845
38. **Macrophoma Cordylines** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma Cordylines* Sacc. Syll. III, p. 162. 965
39. **Macrophoma Vincæ** (Curr.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma Vincæ* Sacc. Syll. III, p. 145. 862

40. **Macrophoma megasperma** (Speg.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma megasperma* Sacc. Syll. III, p. 86. 509
41. **Macrophoma Malpighiæ** (Mont.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma Malpighiæ* Sacc. Syll. III, p. 116. 688
42. **Macrophoma? phyllogenata** (Link.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 183. — *Phoma? phyllogenata* Sacc. Syll. III, pag. 117. 699
43. **Macrophoma erumpens** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma erumpens* Sacc. Syll. III, p. 118. 701
- δ. In fructibus samaris, fimo, leguminibus, seminibus etc.
44. **Macrophoma samaricola** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma samaricola* Sacc. Syll. III, p. 153. 910
45. **Macrophoma Triacanthi** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma Triacanthi* Sacc. Syll. III, p. 147. 875
46. **Macrophoma clitoricarpa** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma clitoricarpa* Sacc. Syll. III, p. 147. 872
47. **Macrophoma malorum** (Berk.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 184. — *Phoma malorum* Sacc. Syll. III, p. 152. 908
48. **Macrophoma seminalis** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma seminalis* Sacc. Syll. III, p. 149. 886
49. **Macrophoma Pandani** (Lév.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma Pandani* Sacc. Syll. III, p. 157. 939
50. **Macrophoma micromegala** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 185. — *Phoma micromegala* Sacc. Syll. III, pag. 73. 428
51. **Macrophoma fimicola** (West.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 185. — *Phoma fimicola* Sacc. Syll. III, p. 169. 1010

δ) In **Monocotyledoneis parasiticæ.**

ε. Culmi-folii- vel cladodiocoræ.

52. **Macrophoma caricina** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 185. — *Phoma caricina* Sacc. Syll. III, p. 169. 980

- to-Trentina 1886 pag. 185. — *Phoma caricina* Sacc. Syll. III, p. 164.
53. **Macrophoma crustosa** Sacc. et Berl. in Misc. Myc. II, p. 30 et 4348
Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 185, tab. III, fig. XX. — Peritheciis ad nodos culmorum dense crustaceo-aggregatis, nigris, globulosis, vix papillatis, $\frac{1}{5}$ mm. diam.; sporulis oblongo-ellipsoideis, 28-32 \approx 10-12, granulosis, hyalinis, basidiis filiformibus, paullo brevioribus suffultis.
- Hab.* in culmis Tritici sativi ad nodos, Fiumicello Ital. bor. — *Macrophomæ Sacchari* affinis.
54. **Macrophoma Sacchari** (Cooke) Berl. et Vogl. in Atti Soc. Ve- 994
neto-Trentina 1886, p. 186. — *Phoma Sacchari* Sacc. Syll. III, p. 166.
55. **Macrophoma Palmarum** (Cooke) Berl. et Vogl. in Atti Soc. Ve- 947
neto-Trentina 1886, p. 186. — *Phoma Palmarum* Sacc. Syll. III, p. 157.
56. **Macrophoma Gladioli** (Cooke) Berl. et Vogl. in Atti Soc. Veneto- 933
Trentina 1886, p. 186. — *Phoma Gladioli* Sacc. Syll. III, p. 159.
57. **Macrophoma brevipes** (Penz. et Sacc.) Berl. et Vogl. in Atti 957
Soc. Veneto-Trentina 1886, p. 186. tab. III, fig. XVI. — *Phoma brevipes* Sacc. Syll. III, p. 160.
58. **Macrophoma Hippoglossi** (Mont.) Berl. et Vogl. in Atti Soc. Ve- 972
neto-Trentina 1886, p. 187. — *Phoma Hippoglossi* Sacc. Syll. III, p. 162.
59. **Macrophoma Musæ** (Cooke) Berl. et Vogl. in Atti Soc. Veneto- 969
Trentina 1886, p. 187. — *Phoma Musæ* Sacc. Syll. III, p. 163.

c) In **Acotyledoneis parasiticæ.**

η. Caulicolæ.

60. **Macrophoma? sphærosperma** (Karsten) Berl. et Vogl. in Atti Soc. 4349
Veneto-Trentina 1886, p. 187. — *Phoma sphærosperma* Karsten in Hedw. 1885, pag. 74. — Peritheciis sparsis, epidermide tectis, sphæroideo-applanatis, atro-fuscis, basi fuscis, ostiolo rudi, epidermidem perforante, glabris, latit. vix 2 mm.; sporulis sphæroideis, hyalinis vel dilutissime flavido-hyalinis, eguttulatis, levibus, 10-15 μ . diam.
- Hab.* in caulibus putrescentibus Equiseti fluviatilis ad Mustiala Fennicæ.

B. Cylindrophoma sporulis cylindraceis vel fusoidis.a) in **Dicotyledoneis parasiticæ.**

α. Ramicolæ.

61. **Macrophoma rimiseda** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 188, tab. III, fig. XXI. — *Phoma rimiseda* Sacc. Syll. III, pag. 78. 402
62. **Macrophoma longispora** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886 p. 188. — *Phoma longispora* Sacc. Syll. III, p. 79. 475
63. **Macrophoma albifrutua** (Peck.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 188. — *Phoma Albifrutua* Peck. in 38 Rep. St. Mus. p. 9. — Peritheciis numerosis, 500-800 μ . latis, conoideis vel subhemisphæricis, sæpe irregularibus, 2-3 confluentibus, erumpentibus, atris; sporulis oblongo-fusiformibus, utrinque acutis, 2-4-nucleatis, 16-20 \approx 5-6, hyalinis, in globulum album expulsis. 4350
- Hab.* in cortice emortuo *Aceris rubri*, Karner Amer. bor.
64. **Macrophoma endophlæa** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 189, tab. II, fig. III. — *Phoma endophlæa* Sacc. Syll. III, p. 96. 571
65. **Macrophoma Corticis** (Fuck.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 189. — *Phoma Corticis* Sacc. Syll. III, p. 76. 446
66. **Macrophoma fusigera** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 189. — *Phoma fusigera* Sacc. Syll. III, p. 77. 455
67. **Macrophoma Mantegazziana** (Penz.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886 pag. 193. — *Phoma Mantegazziana* Sacc. Syll. III, p. 104. ***M. Ægles** Sacc. et Berl. in Rev. Myc. 1886 et in Atti Soc. Veneto-Trentina 1886, p. 193, tab. II, fig. II. — Peritheciis sparsis, majusculis, epidermide velatis; sporulis elongatis, 19-22 \approx 4-5, hyalinis; basidiis sporula duplo minoribus, hyalinis, simplicibus. 618
- Hab.* in spinis ramorum *Ægles*, Algeria. — Affinis *Phoma Mantegazzianæ* Penz., a qua basidiis brevioribus recedit. Areolas dealbatas, ochraceo-cinctas sæpe incolit.
68. **Macrophoma Baculum** (Ger.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 189. — *Phoma Baculum* Sacc. Syll. III, p. 91. 537

β. Caulicolæ.

69. **Macrophoma bacillaris** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto- 795

- to-Trentina 1886, pag. 190. — *Phoma bacillaris* Sacc. Syll. III, p. 134.
70. **Macrophoma Solierii** (Mont.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 190, tab. III, fig. XIX. — *Phoma Solierii* Sacc. Syll. III, pag. 161. 962
71. **Macrophoma clavuligera** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 190. — *Phoma clavuligera* Sacc. Syll. III, p. 69. 397
72. **Macrophoma Artemisiæ** (Kalch. et Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 190. — *Phoma Artemisiæ* Sacc. Syll. III, pag. 123. 735
73. **Macrophoma filamentosa** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 191. — *Phoma filamentosa* Sacc. Syll. III, p. 159. 949

γ. Foliicolæ.

74. **Macrophoma parca** (B. et Br.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 191. — *Phoma parca* Sacc. Syll. III, p. 100. 592
75. **Macrophoma Strobi** (Berk. et Br.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 171. — *Phoma Strobi* Sacc. Syll. III, p. 101. 603
76. **Macrophoma acuaria** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 191. — *Phoma acuaria* Sacc. Syll. III, p. 100. 595
77. **Macrophoma phacidiella** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 191, tab. II, fig. VII. — *Phoma phacidiella* Sacc. Syll. III, p. 106. 631
78. **Macrophoma cylindrospora** (Desm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 192, tab. II, fig. XII. — *Phoma cylindrospora* Sacc. Syll. III, p. 113. 671
79. **Macrophoma viticola** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 192. — *Phoma viticola* Sacc. Syll. III, p. 110. 653
80. **Macrophoma cerasina** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 193. — *Phoma cerasina* Cooke in Grevillea 1886, p. 90. — Epiphylla; peritheciis punctiformibus, densissime gregaris, semiimmersis, atris, nitidis, poro pertusis; sporulis subcylindricis, utrinque rotundatis, rectis, enucleatis, hyalinis. 15-16 ≈ 3,5. 4351
- Hab.* in foliis emortuis Pruni Lauro-cerasi, Aiken S. Carol.
81. **Macrophoma mucipara** (Penz. et Sacc.) Berl. et Vogl. in Atti 648

- Soc. Veneto-Trentina 1886, pag. 192, tab. II, fig. XI. — *Phoma mucipara* Sacc. Syll. III, p. 109.
82. **Macrophoma Molleriana** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 193. — *Phoma Molleriana* Sacc. Syll. III, p. 110.
83. **Macrophoma æquivoca** (Ces.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 194. — *Phoma æquivoca* Sacc. Syll. III, p. 159.
84. **Macrophoma crateriformis** (Dur. et Mont.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 194. — *Phoma crateriformis* Sacc. Syll. III, pag. 112.

b) In **Monocotyledoneis parasiticæ.**

δ. Culmicolæ.

85. **Macrophoma elongata** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 194. — *Phoma elongata* Sacc. Syll. III, p. 158.
86. **Macrophoma lanceolata** (C. et Ell.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 194, tab. III, fig. XVIII. — *Phoma lanceolata* Sacc. Syll. III, p. 162.

ε. Foliicolæ.

87. **Macrophoma smilacina** (Peck.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 195. — *Phoma smilacina* Sacc. Syll. III, p. 160.
88. **Macrophoma Caricis** (Fr.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 195. — *Phoma Caricis* Sacc. Syll. III, p. 164.
89. **Macrophoma graminella** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 195, tab. III, fig. XVII. — *Phoma graminella* Sacc. Syll. III, p. 166.

η. In fructibus, leguminibus, floribus etc.

90. **Macrophoma cassiocarpa** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 195. — *Phoma cassiocarpa* Sacc. Syll. III, pag. 147.
91. **Macrophoma dalmatica** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma dalmatica* Sacc. Syll. III, p. 156.
92. **Macrophoma nitens** (Sacc. Roum. et Bomm.) Berl. et Vogl. in 899

- Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma nitens* Sacc. Syll. III, pag. 151.
93. **Macrophoma Citrulli** (B. et C.) Berl. et Vogl. in Atti Soc. Ve- 885
neto-Trentina 1886, pag. 196. — *Phoma Citrulli* Sacc. Syll. III,
p. 149.
94. **Macrophoma Lagenariæ** (Thüm.) Berl. et Vogl. in Atti Soc. Ve- 882
neto-Trentina 1886, p. 196. — *Phoma Lagenariæ* Sacc. Syll. III,
p. 148.
95. **Macrophoma Granati** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto- 459
Trentina 1886, p. 197. — *Phoma Granati* Sacc. Syll. III, p. 78.
96. **Macrophoma fallax** (Berk.) Berl. et Vogl. in Atti Soc. Veneto- 951
Trentina 1886, p. 197. — *Phoma fallax* Sacc. Syll. III, p. 156.
97. **Macrophoma Hennebergii** (Kühn.) Berl. et Vogl. in Atti Soc. Ve- 999
neto-Trentina 1886, p. 197. — *Phoma Hennebergii* Sacc. Syll. III,
p. 167.
98. **Macrophoma Oleæ** (D. C.) Berl. et Vogl. in Soc. Veneto-Tren- 667
tina 1886, pag. 197, tab. II, fig. IX. — *Phoma Oleæ* Sacc. Syll.
III, pag. 112.
99. **Macrophoma Calotropidis** (Thüm.) Berl. et Vogl. in Atti Soc. Ve- 676
neto-Trentina 1886, pag. 198. — *Phoma Calotropidis* Sacc.
Syll. III, p. 114.
100. **Macrophoma hyalina** (B. et B.) Berl. et Vogl. in Atti Soc. Ve- 516
neto-Trentina 1886, pag. 198. — *Phoma hyalina* Sacc. Syll. III,
pag. 88.

AOSPHÆRIA Berk. — Sacc. Syll. III, p. 169.

- *13. **Aosphæria rugulosa** Sacc. Fung. ven. V, p. 179. — Peritheciis 4352
gregariis, majusculis, globosis, ruguloso-tuberculatis, atris, ostio-
lo minutissimo, papillato, demum perforato; sporulis minutissimis,
ellipsoideis, $2 \approx 1,5$, subhyalinis.
Hab. in ligno putri Carpini Betuli, Vittorio Ital. bor. —
Status ascophorus *Ohleria rugulosa*.
- *25. **Aosphæria subcorticalis** Karst. in Hedw. 1885, p. 74. — Pe- 4353
ritheciis latere interiori corticis insidentibus, subgregariis vel spar-
sis, cupulato-collapsis, atris, glabris, subastomis, superficialibus,
0,2-03 mm. diam.; sporulis oblongatis, eguttulatis, rectis, hyali-
nis, $4 \approx 1-2$.
Hab. ad ramos emortuos Sambuci, Aboæ Fennicæ.
- *30. **Aosphæria elevata** (Peck.) Berl. et Vogl. *Phoma elevatum* 4354
Peck. in 38 Rep. St. Mus. p. 95. — Peritheciis numerosis, minu-

tis, rotundis, ovalibus vel hysteriiformibus, matrice immersis sed pustulus elevatas vel rimas occupantibus, nigris; sporulis ovatis vel subellipticis, $8 \approx 4$, hyalinis.

Hab. in ligno decorticato arborum in montibus Adirondack Amer. bor.

- *32. **Aposphæria nitidiuscula** Karst. in Hedwigia 1884, pag. 6. — 4355
Peritheciis sphæroideis, concavis vel cupulato-collapsis, subsuperficialibus, astomis, atris, nitidis, exiguis; sporulis elongatis, rectis, hyalinis, $3-4 \approx 0,5$.

Hab. in ramulis siccis Aceris platanoidis in parœcia Nerpes Fennicæ.

SPHÆRONEMA Fr. — Sacc. Syll. III, pag. 185.

- *25. **Sphæronema levirostre** (Karst.) Berl. et Vogl. *Rhynchophoma* 4356
levirostris Karsten Symb. pag. 154. — Peritheciis superficialibus, sparsis vel gregariis, sphæroideis, vel subovoideo-sphæroideis, fragilibus, rugulosis, atris, opacis, rostro cylindræco-flexuoso, levi perithecio duplo vel quadruplo longiore, circit. 0,4 mm. diam.; sporulis ellipsoideis vel oblongatis, rectis vel leniter curvulis, simplicibus, $4-6 \approx 2$.

Hab. supra lignum vetustum Populi tremulæ in regione Mustialensi Fennicæ.

CHÆTOPHOMA Cooke — Sacc. Syll. III, p. 199.

- *5. **Chætophoma eutricha** Sacc. et Berl. Misc. Myc. II, p. 8. — My- 4357
celio epiphylo, maculas nigras, epiphyllas, sæpe confluentes, senio sæpe pulveraceo-secedentes formante; hyphis mycelicis effusis, filiformibus, ramoso-anastomoticis, subseptatis, ubique nodulos hemisphæricos, unilaterales gerentibus, fuligineis; peritheciis punctiformibus, subastomis, nigris, hyphis cinctis; sporulis oblongo-allantoideis, curvulis, $4 \approx 1,5$, hyalinis.

Hab. in foliis languidis Castanospermi australis, Logan Australiæ. — Habitus *Meliolæ*, cujus spermogonium verisimiliter sistit.

- *6. **Chætophoma maculans** Winter in Journ. of Myc. 1885, p. 123. 4358
— Peritheciis minutis, globosis, poro pertusis, fuscis, membranaceis, 70 μ . diam., in macula rotundata vel subirregulari, magna (usque 25 mm. lata), fusca, demum fusco-atra, margine indeterminato, pallidiore cincta, interdum autem a linea atra limitata, amphigenis, superficialibus, mycelio repente, ramoso, septato, fu-

sco, subdenso insidentibus; sporulis numerosissimis et minutissimis, ellipticis, hyalinis, unicellularibus, vix 2 μ . longis.

Hab. ad folia viva languidave Silphii terebinthacei, Missouri Amer. bor.

- * 15. **Chætophoma filamentifera** (Karst.) Berl. et Vogl. *Phoma filamentifera* Karst. Symb. XV, pag. 153. — Peritheciis laxe gregariis, innatis, oblongatis vel ellipsoideis, raro rotundatis, hyphis repentibus, ramosis, septatis, fusciscentibus, longis obsessis, contextu distincte laxiusculo, celluloso, fuligineo, ostiolo obtusiusculo, brevi, perforante, circiter 0,2 mm. lat.; sporulis oblongis, rectis, eguttulatis, chlorino-hyalinis, 8-9 \approx 3-3,5. 4359

Hab. in foliis exsiccatis Graminum ad Mustiala Fennicæ.

PYRENOCHÆTA De Not. — Sacc. Syll. III, pag. 219.

- * 13. **Pyrenochæta** (Pyrenochætella) **complanata** Karst. in Hedw. 1885, pag. 74. — Peritheciis gregariis, raro sparsis, superficialibus, liberis, complanatis, orbicularibus, subastomis, pallescentibus, intus albidis, membranaceis, tenuissimis, contextu arcte minuteque celluloso, undique pilis fuscis, decumbentibus, repentibus, æqualibus, vix articulatis, unicoloribus, usque ad 425 μ . longis et 3-5 μ . cr. densissime vestitis, 0,1 mm., vel paullo ultra latis; sporulis fusoido-elongatis vel cylindræis, rectis vel leniter curvulis, simplicibus, hyalinis, 4-6 \approx 0,5-1; basidiis filiformibus, ramosis, 30-45 \approx 2-3. 4360

Hab. in caulibus aridis Umbelliferarum majorum prope Mustiala Fennicæ — *Pyrenochætella* Karst. l. c. subg. vel gen. nov. Perithecia superficialia, membranacea, tenuissima, pallescencia, subastoma, setis longis undique dense vestita. Sporulæ elongatæ vel cylindrææ, simplices, hyalinæ. Basidia ramosa.

VERMICULARIA Har. — Sacc. Syll. III, pag. 221.

- * 10. **Vermicularia Syringæ** Oud. Aanw. IX-X, p. 32. — Peritheciis membranaceis, immersis, fusciscentibus, vertice setis 5-7, angulatum flexuosis, articulatis, sursum conidia 2-3-septata, ovalia vel oblonga, dilutius colorata sustinentibus præditis; sporulis hyalinis, minutissimis, ellipsoideis, continuis. 4361

Hab. in capsulis effœtis Syringæ vulgaris, Putten Hollandiæ.

- * 13. **Vermicularia Libertiana** Roum. in Rev. Myc. 1886, p. 91. — Peritheciis minutis, globulosis, atris, erumpentibus, leniter depres-

sis, vix $\frac{1}{6}$ mm. diam., pilis rigidis brunneis, apice pallidioribus, 40-45 \approx 2-3, irregulariter septatis; sporulis curvatis, fusiformibus, hyalinis, 8-10 \approx 3.

Hab. in caulibus delapsis Pini, Malmedy Galliæ.

- * 15. **Vermicularia Ophiopogonis** Pat. in Rev. Myc. 1886, pag. 83. — 4364

Peritheciis primo epidermide tectis dein liberis, atris, rotundis v. parum elongatis, setis nigris, continuis præditis; sporulis fusiformibus, rectis vel parum curvatis, hyalinis, uniseptatis, 24-27 μ . longis.

Hab. in foliis Ophiopogonis gracilis, Thibet Orient. Asiæ.

- * 18. **Vermicularia Tofieldiæ** Pat. in Rev. Myc. 1886, p. 83. — Pe- 4364

ritheciis minutis, sparsis, superficialibus, pilis filiformibus, nigris, circiter peritheci duplo longioribus; sporulis 21 μ . longis, hyalinis, curvis, continuis.

Hab. in foliis exsiccatis Tofieldiæ, Thibet orient. Asiæ (AB. DAVID).

- * 64. **Vermicularia straminis** Cooke et Hark. in Grevillea XIII, p. 112. 4365

— Peritheciis subgregariis, globoso-depressis, atris, $\frac{1}{3}$ mm. diam., setis rigidis, 15 μ . long., sparsis, erectis ornatis; sporulis cylindraceis, utrinque rotundatis, rectis, continuis, hyalinis, 12 \approx 3,5.

Hab. in culmis in California (HARKNESS).

- * 65. **Vermicularia affinis** Sacc. et Briard in Rev. Myc. 1885. — Pe- 4366

ritheciis nigris, innatis, in series parallelas dispositis; pilis brevibus rectis, paucis, epidermidem perforantibus præditis; sporulis falciformibus, hyalinis, simplicibus, 20-24 \approx 4.

Hab. in culmis siccis Graminaceæ ejusdam, prope Troyes Galliæ.

DOTHIORELLA Sacc. Syll. III, p. 235.

- * 9. **Dothiorella diatrypoides** Sacc. et Berl. Misc. Myc. II, pag. 29. 4367

tab. IX, f. 15. — Acervulis transverse erumpentibus, pulvinatis, diatrypoides, atris, 2 mm. latis; peritheciis dense congestis, globosis, minute papillatis, $\frac{1}{6}$ mm. diam.; sporulis oblongo-fusoideis, 28-31 \approx 9-11, pluriguttulatis, hyalinis; basidiis sporula paullo brevioribus, bacillaribus fasciculatis.

Hab. in ramis emortuis corticatis Cerasi, Fiumicello prope Padova Ital. bor.

- * 14. **Dothiorella endorhodia** Berl. Fungi Mor. fasc. I, tab. 8. — Pe- 4368

ritheciis 3-6-aggregatis, in stromate tecto dein epidermide scissa erumpente nidulantibus, atris, perforatis, globosis vel mutua pres-

sione angulatis, nucleo amœne roseo faretis, demum evacuatis; sporulis ovato-oblongis, episporio crassiusculo, granulosis vel pluriguttulatis, continuis, dilute roseis, 25-28 \approx 10-12, basidiis brevibus, crassiusculis, juvenilibus apice inflato, guttuligero, 20-25 \approx 3-4, suffultis, hyalinis.

Hab. in ramis crassioribus emortuis Mori albæ, Padova Ital. bor. — Species perpulchra, peritheciis nucleo læte roseo donatis mox dignoscenda.

- *17. **Dothiorella Mori** Berl. Fungi Moricolæ Fasc. I, tab. 8. — Erumpens, epidermide laceratâ cincta; peritheciis aggregatis vel in stromate nidulantibus, vix papillatis, atris; nucleo albido, pulposo; sporulis ovato-oblongis, episporio crassiusculo donatis, intus granulosis, vel minute guttulatis, hyalinis, 28-30 \approx 12-14, continuis; basidiis filiformibus crassiusculis, brevibus suffultis, hyalinis, junioribus apice inflatis guttuligerisque, 20-30 \approx 3-4. 4369

Hab. in ramis corticatis emortuis, Mori albæ et nigræ Fiumicello Ital. bor.

PLACOSPHERIA Sacc. Syll. III, p. 244.

- *10. **Placosphæria Balanseana** Sacc. et Roum. in Rev. Myc. 1886, p. 20. — Stromatibus parallele seriatis, elongatis, utrinque acutis, prominentibus, sæpius hypophyllis, colliculosis, atris, plurilocellatis; sporulis fusoides, 6-8 \approx 1,5-2, hyalinis; basidiis filiformibus, simplicibus vel ramulosis, 20-25 \approx 1-1,5. 4370

Hab. in foliis vivis Palmarum, Paraguay Bras.

CYTOSPORA Ehrenb. — Sacc. Syll. III, p. 252.

13. **Cytospora microstoma** Sacc. Syll. III, p. 254. var. **Cotoneastri** Cooke in Grevillea XIII, p. 94, sporulis 6-7 \approx 1,5. — In *Cotoneastro frigida*, Kew. Brit. var. **Amelanchieris** Cooke l. c., sporulis 5-6 μ . long. — In *Amelanchiere* Kew. Brit. 486

- *29. **Cytospora Staphyleæ** Cooke in Grevillea XIV, p. 2. — Stromatibus sparsis, 2-3-loculatis, epidermide vix elevata tectis, poro minuto pertusis; sporulis linearibus, curvatis, obtusis, allantoideis, hyalinis, 6 \approx 1. 4371

Hab. in ramis *Staphyleæ pennatæ* et *S. trifoliatæ*, Kew Britannicæ,

- *30. **Cytospora Corni** West. Lambotte Fl. Belg. II, pag. 372. — Stromatibus parvis, brunneis, 3-5-ocularibus, nigris, epidermide brunnea tectis; loculis ovoideis, compressis; ostiolis conco-

loribus, prominulis; cirrho sporularum luteo-albo; sporulis minutis, cylindræcis, rectis vel leniter curvis.

Hab. in ramis Corni sanguineæ in Belgio.

- * 49. **Cytospora capitata** Fuck. in die zweite deutsch. Nordpolarf. 31, 4372
fig. 8. — Stromatibus sub corticis epidermide nidulantibus, multilocularibus, locellis radiatim dispositis, gelatinosis, olivaceis; disco perfecte globoso, 1 mm. diam., puberulo, olivaceo, poro centrali, punctiformi, sporulis cylindræcis, curvatis, continuis, hyalinis, $8 \approx 1$.

Hab. in ramulis aridis Salicis arcticæ in Groenlandia.

- * 71. **Cytospora Verrucula** Sacc. et Berl. Misc. Myc. II, p. 8. — Stromatibus mox erumpentibus et subsuperficialibus, globulosis, subinde depressis, atris, ostiolis minutis punctatis; peritheciis paucis, globoso-conicis stromate omnino immersis; sporulis allantoideis, hyalinis, $6 \approx 1-5$; basidiis dichotome v. verticillato-ramosis, longis. 4374

Hab. in ramis corticatis, Logan Australiæ. — *Cytospora tumida* et *Cyt. epixyla* affinis.

- * 88. **Cytospora Evonymi** Cooke in Grevillea XIV, p. 4. — Gregaria; stromatibus conicis, epidermide brunneola tectis, parvis, demum nigrescentibus, lucidis; sporulis allantoideis, curvatis, hyalinis, $8 \approx 2$. 4375

Hab. in ramulis Evonymi americani, Kew Britanniæ.

- * 90. **Cytospora Jasmini** Cooke in Grevillea XIV, p. 4. — Stromatibus conicis, subcutaneis parvis, cuticula obscura tectis, laxe gregariis; sporulis linearibus, curvatis, obtusis (allantoideis), $6 \approx 1$. 4376

Hab. in ramulis Jasmini officinalis, Kew Britanniæ.

- * 125. **Cytospora Smilacis** Cooke in Grevillea XIV, p. 14. — Stromatibus pustulatis, gregariis, convexis, innato-erumpentibus, paucilocularibus; sporulis minutissimis, cylindricis, vix curvulis, hyalinis, basidiis duplo longioribus, $4 \approx 2$. 4377

Hab. in radicibus expositis Smilacis, Darien Georgia Amer. bor. (RAVENEL).

- * 129. **Cytospora Quercus Ilicis** Pass. Fung. Gall. nov. in Jour. d'Hist. nat. 1885, n. 4, p. 55. — Stromatibus epiphyllis, sparsis vel gregariis, conicis, nitidis, nucleo albo; sporulis cylindricis, hyalinis, $7-7\frac{1}{2} \approx 2\frac{1}{2}$. 4378

Hab. in foliis deciduis Quercus Ilicis prope Sanjou (Charente Inferieure) in Gallia (BRUNAUD).

- * 130. **Cytospora Palmarum** Cooke in Grevillea XIII, p. 95. — Stromatibus innato-erumpentibus, primo tectis, dein epidermidem per- 4379

forantibus, $\frac{1}{2}$ -1 mm. diam.; loculis parvis; sporulis allantoideis, 6-1, hyalinis, profusis.

Hab. in petiolis *Palmarum* etc. Kew Britannicæ.

- * 133. **Cytospora Draconis** Sacc. et Berl. in Rev. Myc. 1886. — Stro- 4380
matibus erumpentibus, intus dedaleæformibus, atris; sporulis sub-
cylindræis, $10 \approx 2-2\frac{1}{2}$, hyalinis, basidiis bacillaribus, simplicibus
suffultis, 30-40 $\approx 1\frac{1}{2}$.

Hab. in fructibus *Dracænæ Draconis* in Algeria.

Sect. 2. Phæosporæ Sacc.

SPHÆROPSIS Lév. — Sacc. Syll. III, p. 291.

- * 11. **Sphæropsis lichenoides** Sacc. in Rev. Myc. 1885, pag. 222. — 4381
Peritheciis gregariis, epidermide dealbata tectis, dein erumpenti-
bus, globosis, obtuse papillatis, $\frac{1}{3}$ mm. diam., atris; sporulis el-
lipsoideis, olivaceis, 14-18 $\approx 7-8$, initio stipitatis.

Hab. in ramis exsiccatis *Piri japonicæ* cultæ, Toulouse Gal-
liæ (ANGELA ROUMEGUÈRE).

- * 49. **Sphæropsis Betulæ** Cooke in Grevillea XIV, p. 4. — Subgrega- 4382
ria, interdum sparsa cuticula elevata tecta; peritheciis depresso
globosis, vix papillatis; sporulis ellipticis, utrinque rotundatis, con-
tinuis, luteolis, 30-32 ≈ 9 .

Hab. in ramulis *Betulæ albæ*, Kew Britannicæ.

- * 50. **Sphæropsis tabacina** Berl. Fungi Moricollæ fasc. I, t. 9, f. 12-15. 4383
— Peritheciis superficialibus, sparsis vel leniter gregariis, crusta
stromatica, atra insidentibus, globosis, atris, lucidis, in ostiolum
cylindræum vel cylindræo-conicum, subinde longiusculum desi-
nentibus, $\frac{1}{5}-\frac{1}{3}$ mm. diam.; sporulis ovoideis, episporio crassiu-
sculo, guttulatibus, continuis, læte cinnamomeis; basidiis nullis vel
obsoletis.

Hab. in ligno putri *Mori albæ*, Fiumicello Ital. bor. — Li-
gno valde nigrefacto, peritheciis acute papillatis sporulisque ochra-
ceo-lutescentibus statim distinguenda.

- * 51. **Sphæropsis Mori** Berl. Fungi Mor. fasc. I, tab. 9, fig. 1-6, *Di-* 4384
plodia Mori Plur. Auct. — Peritheciis sparsis vel leniter grega-
riis, basi cortice insculptis, epidermide elevata dein fissa cinctis,
atris, globosis, sæpe collapsis, in ostiolum breve, conicum produ-
ctis, $\frac{1}{3}-\frac{1}{2}$ mm. diam.; sporulis oblongo-ovatis, sæpe basi attenua-
tis quandoque plasmatis bipartiti causa, loculo medio valde irre-

gulari præditis, 15-18 \approx 10-2, saturate olivaceis; basidiis hyalinis, brevibus, crassiusculis, suffultis.

Hab. in ramis corticatis Mori albæ in toto agro Veneto Ital. bor., sociâ *Diplodiâ Mori*.

- * 52. **Sphæropsis alnicola** Peck in 38 Rep. St. Mus. p. 95. — Peritheciis numerosis, 350-500 μ . diam., prominulis, hemisphæricis, erumpentibus, sæpe confluentibus, in maculis nigris; sporulis oblongis, 15-22 \approx 8-10. 4385

Hab. in ramulis emortuis Alni, West Albany Amer. bor.

- * 56. **Sphæropsis quercina** Cooke et Harkn. in Grevillea XIII, p. 111. — Peritheciis sparsis, subcutaneis, globoso-depressis, vix prominulis; sporulis subellipticis, continuis, utrinque rotundatis, demum olivaceo-fuliginis, 20-24 \approx 12. 4386

Hab. in ramis vivis Quercus in California (HARKNESS).

- * 73. **Sphæropsis Lupini** Cooke et Hark. in Grevillea XIII, p. 111. — Caulicola, sparsa, erumpens; peritheciis globoso-depressis, atris, demum semiemergentibus, pertusis; sporulis globoso-ovoideis, utrinque subacuminatis, continuis, demum atro-olivaceis, 15-17 \approx 8-10. 4387

Hab. in caule Lupini in California (HARKNESS).

- * 74. **Sphæropsis Smyrni** Pass. Fung. Gall. nov. in Jour. d'Hist. nat. 1885, n. 4, p. 55. — Peritheciis gregariis, sæpe confluentibus, seriatis, compressis, rimose erumpentibus nigris; sporulis ellipticis vel ovoideis, continuis, fuliginis, 16-20 \approx 9-12. 4388

Hab. in caulibus emortuis Smyrni Olusatri prope Font couverte in Gallia (BRUNAUD).

CONIOTHYRIUM Corda — Sacc. Syll. III, p. 305.

1. **Coniothyrium olivaceum** Bon. — Sacc. Syll. III, p. 305. *Var. Lauri nobilis* Brun. in Rev. Myc. 1886, p. 140. — Sporulis 6-8 \approx 4. In ramis emortuis Lauri nobilis, Saintes Galliæ. 1923

- * 2. **Coniothyrium obscurum** Pass. in litt. Martelli in Flor. bogos. p. 148. — Peritheciis (genuinis?) fibris ligneis insidentibus vel intermixtis, oblongo-linearibus, atris; sporulis ovoideis, atro-fuscis, integris, 7,5-10 \approx 5-6. 4389

Hab. in lignis decorticatis, Keren Abyssiniæ (BECCARI).

- * 3. **Coniothyrium valsoideum** Peck in 38 Rep. St. Mus. pag. 97. — Peritheciis cæspitosis, stipatis, erumpentibus, laciniis epidermidis rupte circumdatis, subglobosis vel angularibus mutua pressione, atris; sporulis numerosis, subglobosis vel oratis, coloratis, 5-6. 4390

Hab. in ramis emortuis Alni glutinosæ, West Albany Americæ borealis.

- * 15. **Coniothyrium Genistæ** (Roum.) Berl. et Vogl. *Septoria Genistæ* Roum. in Rev. Myc. 1884, p. 230. — Peritheciis innato-erumpentibus, prominentibus, globoso-inæqualibus, brevissime papillatis, gregariis, subinde confluentibus, subcoriaceis atris, $\frac{3}{4}$ mm. diam.; sporulis ellipticis, inæquilateralibus, brunneis.

Hab. in cortice emortuo Genistæ tinctoriæ, Carcassonne Galliæ.

- * 17. **Coniothyrium cassiæcolum** Cooke in Grevillea XIII, p. 96. — Peritheciis gregariis, globosis, cuticula elevata tectis, demum erumpentibus; sporulis ovalibus, enucleatis, pellucidis, pallide brunneis, $6 \approx 4$, continuis,

Hab. in caulibus Cassiæ marylandicæ, Kew Britanniæ.

- * 47. **Coniothyrium rostellatum** Grove in Journ. of Bot. 1886, p. 135. — Peritheciis globosis, rostellato brevi, cylindrico instructis, v. ovoideis, rostro confluyente, $\frac{1}{6}$ - $\frac{1}{5}$ mm. alt., superficialibus, atris, rugulosis, sparsis v. subinde duobus semiconnatis, contextu parenchymatico, olivaceo, subpellucido; sporulis numerosis, ovoideis v. subglobosis, olivaceis, $4 \approx 2\frac{1}{2}$ -3 μ .

Hab. in interiore squamarum superficie conorum Pini silvestris Kings Norton, prope Birmingham, Britanniæ. — *C. dispersello* affine, at rostro manifesto distinctum.

- * 63. **Coniothyrium Euphorbiæ** (Roum.) Berl. et Vogl. *Phyllosticta Euphorbiæ* Roum. in Rev. Myc. 1885, p. 26. — Maculis epiphyllis, orbicularibus, rufo-brunneis, sparsis vel confluentibus, sæpe ad margines foliorum; peritheciis punctiformibus, nigris, $\frac{1}{10}$ mm. d.; sporulis ellipsoideis, 5 - $6 \approx 2,5$, olivaceis.

Hab. in foliis vivis Euphorbiæ silvaticæ, Fontainebleau Galliæ.

- * 64. **Coniothyrium Fragariæ** Oud. Wersl. en Med. der Hon. Ak. van Wet. 2, XVIII, 37, et Aansw. IX-X, p. 27. — Peritheciis membranaceis, fuliginosis, apice irregulariter pertusis; sporulis fuliginosis, late ellipticis, $11,6 \approx 9,3$, utrinque vel uno alterove apice acutato, basi sæpe basidii portiuncula hyalina appendiculatis.

Hab. in receptaculis maturis Fragariæ vescæ, Amsterdam Hollandiæ.

- * 66. **Coniothyrium Arthurianum** Sacc. et Berl. Misc. Myc. II, n. 71. — Peritheciis gregariis, epidermide velatis, globoso-depressis, pa-

pillulatis, $\frac{1}{6}$ mm. diam., atris; sporulis e globoso ellipsoideis, utrinque rotundatis, 5-6 \approx 4-5, pallide olivaceis.

Hab. in caulibus herbaceis (Cucurbitæ?) Geneva Amer. bor., socio *Epicocco neglecto* (I. C. ARTHUR).

- * 67. **Coniothyrium Gastonis** (Roum.) Berl. et Vogl. *Phyllosticta Gastonis* Roum. in Rev. Myc. 1886, p. 19. — Peritheciis raris, nigris, punctiformibus, applanatis, 100-150 μ . diam.; sporulis globosis, brunneis, 5 μ . diam., guttulatis, in maculis orbicularibus, brunneis, confluentibus. 4398

Hab. in foliis vivis Musæ Sapientum, Haiti Australiæ.

- * 79. **Coniothyrium Resinæ** Sacc. et Berl. Misc. Myc. II, n. 130. t. IX, f. 17. — Peritheciis superficialibus, globosis, atris, fere epapillatis, $\frac{1}{7}$ - $\frac{1}{8}$ mm. diam., subiculo atro, coniothecioideo insertis; contextu celluloso, nigricante; sporulis globosis, 1-guttulatis, 1,5-2, basidiis bacillaribus, 15 \approx 1,5-2, dilute olivaceis, fasciculatis. 4399

Hab. in resina dejecta uda in horto Patavino Ital. bor. (Dom. SACCARDO). — Cum pycnidio *Retinocyti flavi* contextu atro peritheciis statim distinguenda species.

HARKNESSIA Cooke. — Sacc. Syll. III, p. 320.

- * 1. **Harknessia Arctostaphyli** Cooke et Hark. in Grevillea XIII, p. 111. — Amphigena; peritheciis innatis, erumpentibus, paullulis, $\frac{1}{3}$ mm. diam., ore orbiculari elevato, subdenticulato; sporulis ellipticis, fuliginis, 20 \approx 9, deorsum pedicellatis; basidiis brevibus. 4399

Hab. in foliis Arctostaphyli in California (HARKNESS).

- * 2. **Harknessia hyalina** E. et E. in Jour. of Myc. I, p. 92. — Acervulis (peritheciis?) innatis, subglobosis, $\frac{1}{4}$ mm. diam., epidermide elevata subinde stellatim rupta tectis; sporulis in globulum albescentem congestis, oblongo-fusiformibus, hyalinis vel luteolis, 20-25 \approx 4-6, appendicula setiformi, recta v. vix curva, 15-20 μ . longa auctis; basidiis brevibus, cylindræis vel subconoideis, 6-10 \approx 4. 4400

Hab. in foliis emortuis Quercus coccinæ, Newfield Amer. bor. sociâ *Physalospora quercifoliâ*, cujus verisimiliter status pycnidicus habenda.

- * 3. **Harknessia caudata** E. et E. in Journ. of Myc. p. 92. — Acervulis (peritheciis?) innato-erumpentibus, globosis, primo epidermide tectis dein ea poro rotundo pertusa massam sporularum revelantibus; sporulis fusiformi-ellipticis, brunneis, 15-20 \approx 6-8, in globulum minutum, atrum expulsis, apice appendicula setiformi, 4401

hyalina, recta vel leniter curva, 15-25 μ . longa auctis; basidiis cylindraceis, hyalinis, 12-15 \times 2,5 \times 3, diu persistentibus.

Hab. in foliis et ramulis emortuis *Quercus*, Newfield Amer. bor. — Verisimiliter status pycnidicus *Cryptosporella farinose* habenda.

HAPLOSPORELLA Speg. — Sacc. Syll. III, p. 323.

- *1. **Haplosporella carbonacea** Pass. in litt. Martelli in Fl. bog. p. 148. 4402
— Peritheciis cæspitosis, erumpentibus, globosis, atris, stromate carbonaceo insidentibus vel immersis; sporulis ellipsoideis, castaneo-fuscis, integris, 10-15 \times 6,5-7.

Hab. in rimis corticis, Keren Abyssiniæ (BECCARI).

- *2. **Haplosporella Brunaudiana** Pass. in litt. Brun. in Rev. Myc. 1886, 4403 p. 140. — Peritheciis 1-2 stromate pulviniformi immersis, brunneis, nucleo albo; sporulis ellipsoideis, continuis, subinde 1-2-guttulatis, fuliginis, 15-20 \times 9-10.

Hab. in ramis emortuis *Ericæ scopariæ* pr. Saintes Galliæ.

- *3. **Haplosporella moricola** Berl. Fungi mor. fasc. I, tab. 9, fig. 7-11. 4404
Diplodia Mori forma gregaria Auct. — Peritheciis in stromate carbonaceo, elongato, epidermidem subelevante et tandem eam radiatim vel lineatim rumpente immersis, quandoque distinctis et confluenso difformibus, nucleum album continentibus, $\frac{1}{4}$ - $\frac{1}{5}$ mm. diam.; sporulis ovoideis, sæpe basi attenuatis, immaturis episporio crassiusculo præditis, pallidis, guttuligeris et plasmate bipartito loculo centrali, irregulari instructis, 20-23 \times 10, maturis olivaceo-fuliginis, continuis, basidiis crassiusculis, hyalinis suffultis.

Hab. in ramis corticatis crassioribus *Mori* albæ in Gallia.

Sect. β . Phæodidymæ Sacc.

DIPLODIA Fr. — Sacc. Syll. III, p. 329.

- *34. **Diplodia Genistarum** Cooke in Grevillea XIII, p. 96. — Subsparsa; 4405
peritheciis cortice immersis, cuticula tectis, vix perspicuis, globosis; sporulis ellipticis, uniseptatis, non constrictis, pallide brunneis, 12-14 \times 6.

Hab. in ramulis *Genistæ ætnensis* et *Coronillæ Emeri*, Kew Britannicæ.

- *50. **Diplodia photiniæcola** Brun. in Rev. Myc. 1886, p. 141. Ita no- 4406
minanda est *Diplodia Photiniæ* Brun. Liste Pl. Saint. pag. 169, quæ a *D. Photiniæ* Speg. certe diversa. — Peritheciis sparsis v.

gregariis, globulosis, circ. $\frac{1}{3}$ mm. diam., atris, tectis, demum erumpentibus; sporulis oblongis, primo continuis, demum uniseptatis, medio non constrictis, granulosis, primum hyalino-olivaceis, dein leniter brunneolis, 28-30 \approx 14-16.

Hab. in ramis emortuis Photiniæ serrulatæ, Saintes Galliæ.

55. **Diplodia Rubi** Fr. Sacc. Syll. III, p. 339. *Var.* **Rubi Idæi** Brun. 1879

in Rev. Myc. 1886, p. 141. — Peritheciis sparsis vel gregariis, sæpe seriatim dispositis et tum subinde confluentibus, tectis, nigris, subglobosis; sporulis ellipsoideis, oblongis, brunneis, 25 \approx 12, uniseptatis, ad septum constrictis. — In sarmentis emortuis Rubi Idæi, Saintes Galliæ.

72. **Diplodia spireina** Sacc. Syll. III, p. 342. *forma major* Brun. in 1896

Rev. Myc. 1886, pag. 141. — Sporulis 22-30 \approx 12-14, medio constrictis. — In caulibus emortuis Spireæ crenatæ, Saintes Galliæ.

* 98. **Diplodia Agni casti** Pass. in Herb. Critt. Ital. Ser. II, n. 1479. 4407

— Peritheciis cortice immersis, miliariformibus, crebre lateque sparsis, tectis, dein epidermide fissa apice denudatis, atris; sporulis ellipticis, medio leniter constrictis, castaneo-fuscis, magnitudine varia, ut plurimum 15 \approx 7.

Hab. ad ramulos Viticis Agni casti gelu tactos pr. Parma Ital. bor.

* 99. **Diplodia viburnicola** Brun. Fung. Gall. nov. in Jour. d'Hist. 4408

nat. 1885, n. 4, p. 55. — Peritheciis sparsis vel gregariis, minutis, globosis, nigris, tectis, demum erumpentibus, epidermide rimose rupta cinctis; sporulis oblongis, utrinque rotundatis, 1-septatis, medio constrictis, 23 \approx 12-13, fuliginosis.

Hab. in ramis siccis Viburni Tini prope Saintes in Gallia.

— A *D. Tini* forma ramulicola differt sporulis medio constrictis.

* 112. **Diplodia Paulowniæ** Cooke in Grevillea XIII, p. 96. — Subsparsa; 4400

peritheciis subglobosis, atris, longitudinaliter erumpentibus, non superficialibus; sporulis ellipticis, vix constrictis, uniseptatis, brunneolis, 20-22 \approx 8.

Hab. in ramulis Paulowniæ imperialis, Kew Britannicæ.

* 140. **Diplodia salicina** Lév. in Ann. Sc. Nat. (Bot.) 1846, p. 292. 4410

— Peritheciis gregariis, innatis, globosis, nigris, erumpentibus, epidermide tectis, ostiolis papillatis, demum deciduis; sporulis.... ut in *D. vulgari*.

Hab. in ramis Salicis albæ secus Matronam St. Maurice pr. Paris Gallicæ (LÉVEILLÉ).

* 165. **Diplodia Kerensis** Pass. in litt. Martelli in flor. bog. p. 148. — 4411

Peritheciis gregariis, globoso-oblongis, tectis, dein epidermide fissa vix erumpentibus; sporulis oblongo-ellipsoideis, septatis, non constrictis, castaneo-fuscis, 15-20 \approx 7,5-10.

Hab. in rimis corticis, Keren Abyssiniæ (BECCARI).

- *167. **Diplodia Phyllactiniæ** Cooke et Hark. in Grevillea XIII, p. 112. 4412

— Epiphylla; peritheciis gregariis, superficialibus, liberis, globosis (ut in *Erysipheis*); sporulis ellipticis, uniseptatis, nec constrictis, fuscis, 12 \approx 5.

Hab. in foliis Acaciæ etc. in California (HARKNESS).

- *168. **Diplodia maculicola** Winter in Hedwigia 1885, p. 259. — Pe- 4413

ritheciis plerumque in maculis irregularibus rotundatisve, arecentibus, albidis vel pallide fuscidulis gregariis, ab epidermide pustulatim elevata, centro ab ostiolo perithecii minute perforata semper tectis, rarius sparsis et interdum erumpentibus, depresso globosis, fere lenticularibus, poro pertusis, tenuissime membranaceis, fuscidulis, 240-300 μ . latis; sporidiis oblongis vel elliptico-oblongis, sæpe parum irregularibus, medio uniseptatis, sed non constrictis, utrinque late rotundatis, imo subtruncatis, dilutissime fuscidulis, 11-16 \approx 5.

Hab. ad folia viva Leguminosæ adhuc indeterminatæ pr. S. Francisco in Brasilia (E. ULE).

- *185. **Diplodia seminula** Pat. in Rev. Myc. 1886, p. 83. — Perithe- 4414

ciis minutissimis, nigris, lucentibus, globulosis, 40-60 μ . diam.; sporulis ovoideis, uniseptatis, 6-7 \approx 3-4, brunneis.

Hab. in foliis emortuis Primulæ bracteatae, Lankong Yunnan Asiæ (AB. DAVID).

- *203. **Diplodia inconspicua** Cooke in Grevillea XIII, p. 96. — Hypo- 4415

phylla; peritheciis minutis, immersis, inconspicuis, gregariis, cuticula non decolorata tectis; sporulis ellipticis, non constrictis, uniseptatis, pallide brunneis, 12 \approx 6.

Hab. in pagina superiore et inferiore foliorum emortuorum *Buxi sempervirentis* Kew. Britann. — A *D. Buxi* certe distincta.

- *207. **Diplodia Sterculiæ** Winter in Hedwigia 1886, p. 103. — Pe- 4416

ritheciis gregariis, semper omnino immersis, fere lenticularibus vel depresso globosis, pariete crassa, atra, coriaceo-membranacea ostiolo cylindrico, obtuso, crasso, peridermium perforante donatis, prominulis, 310-420 μ . diam., 210-240 μ . altis; hyphis fuscis, repentibus obsitis; sporulis ellipticis, medio septatis sed non constrictis, fuscis, 24-30 \approx 12-14, copiose expulsis et substratum longe lateque inquinantibus.

Hab. in fructu putri Sterculiæ in Insula St. Thome Africae occidentalis.

- *229. **Diplodia pusilla** Sacc. et Briard. in Rev. Myc. 1886. — Peri- 4417
 theciis sparsis, globosis, sæpe depressis, diu epidermide tectis, dein
 liberis, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam.; ostiolo papillato, centrali; sporulis ova-
 libus vel ovato-oblongis, obtusissimis, 1-septatis, ad septa constrictis,
 leniter fuliginis, 11-13 \approx 5,5-6.

Hab. in caulibus siccis Cichorii Intybi prope Troyes Galliae.

- *230. **Diplodia Epilobii** Brun. in Rev. Myc. 1886, p. 141. — Peri- 4418
 theciis globulosis, subcompressis, sparsis vel gregariis; sæpe con-
 fluentibus, innatis, demum erumpentibus, atris; sporulis oblongis,
 1-septatis, medio non constrictis, fuliginis, 22-25 \approx 12-15.

Hab. in caulibus emortuis Epilobii angustifolii, Saintes Galliae.

- *231. **Diplodia cistina** Cooke in Grevillea XIV, p. 4. — Gregaria, 4419
 immersa, cortice tecta; peritheciis late conicis, atris, sæpe in li-
 neas vel in pustulas parvas dispositis; sporulis ellipticis, unisepta-
 tis, non constrictis, brunneis, 16-22 \approx 9-10.

Hab. in caulibus et ramulis Cisti laurifolii, Kew Brit.

- *240. **Diplodia Fuchsiae** Cooke et Hark. in Grevillea XIII, p. 112. — 4420
 Caulicola; peritheciis subcutaneis, gregariis, globosis, atris, epider-
 mide tectis, numquam erumpentibus; sporulis ellipticis, uniseptatis,
 nec constrictis, fuscis, 28 \approx 10.

Hab. in caulibus Fuchsiae in California (HARKNESS).

- *241. **Diplodia Crassulae** Cooke et Hark. in Grevillea XIII, p. 112. 4421
 — Caulicola; peritheciis gregariis, subcutaneis, globosis, atris, de-
 mum epidermide fissurata erumpentibus; sporulis ellipsoideis, uni-
 septatis, medio vix constrictis, fuscis, 20-22 \approx 8.

Hab. in caulibus Crassulae in California (HARKNESS)

- *242. **Diplodia Rehmii** Bäumler in Hedw. 1885, p. 75. — Perithe- 4422
 ciis immersis, sparsis vel subaggregatis, globosis, ostiolo papilli-
 formi, peridermium perforante donatis, atris, membranaceis, 200-
 300 μ . diam.; sporulis subclavatis, medio uniseptatis, non vel vix
 constrictis, maturitate opace nigris, levibus, loculo inferiore parum
 angustiore, utrinque rotundatis, 16-20 \approx 8-10.

Hab. in caulibus emortuis Pelargonii, Blumentöpfen, Press-
 burg Hungariae?

- *243. **Diplodia vincæcola** Brun. in Rev. Myc. 1886, p. 141. — Pe- 4423
 ritheciis sparsis vel gregariis, globulosis, tectis, ostiolo papilliformi

erumpente, atris; sporulis ovato-oblongis, brunneis, 1-septato-constrictis, 22-35 \approx 12-15.

Hab. in caulibus emortuis Vincæ majoris, Saintes, Font-couverte Galliæ.

- *256. **Diplodia Coryphæ** Cooke in Grevillea XIII, p. 96. — Immersa, 4424
erumpens, cuticula rimose longitudinaliterque rupta; peritheciis minimis, atris, tectis; sporulis subglobosis vel ovalibus, non constrictis, uniseptatis, episporio tenui, pallide fuligineo, 14-17 \approx 10.

Hab. in petiolis Palmarum (fan palms) Kew Britannicæ.

- *264. **Diplodia Narthecii** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. 4425
Belg. 1886, p. 180. — Peritheciis sparsis, epidermide velatis, subglobosis, prominulis, nigricantibus, papillatis, 160-200 μ . diam.; sporulis brunneis, ellipsoideis, obtusissimis 1-septatis, medio non constrictis, 9 \approx 5-6.

Hab. in scapis (hampes) Narthecii ossifragi, Westmalle Belgii. — *D. Buxi* et *D. pinnarum* affinis.

DIPLODIELLA Karst. — Sacc. Syll. III, p. 375.

- *2. **Diplodiella faginea** Bäumker in Hedw. 1885, p. 76. — Peritheciis 4426
superficialibus, 0,5 mm. diam., atris, carbonaceis; sporulis 18-23 \approx 8-10, fuscis uniseptatis, medio parum constrictis, utrinque rotundatis, vel subclavatis, deorsum sursumve magis acuminatis.

Hab. in ramis Fagi silvaticæ in Hungaria.

Sect. 4. Hyalodidymæ Sacc.

ASCOCHYTA Lib. — Sacc. Syll. III, p. 384.

- *7. **Ascochyta Cassandræ** Peck in 38 Rep. St. Mus. p. 94. — Ma- 4427
culis orbicularibus vel irregularibus, rufo-brunneis vel brunneis et rufo-brunneæ marginatis; peritheciis epiphyllis, minutis erumpentibus, nigrescentibus; sporulis oblongo-fusoideis, utrinque acutis, uniseptatis, 10-16 \approx 3-4, hyalinis.

Hab. in foliis vivis Cassandræ calyculatæ in montibus Adirondack Amer. bor.

- *8. **Ascochyta Mespili** Pass. in litt. Brunaud in Rev. Myc. 1886, 4428
p. 141. — Maculis primo brunneis demum centro griseis v. brunneo-griseis, irregularibus, sæpius marginalibus; peritheciis innatis dein erumpentibus, globulosis, nigris; sporulis ellipsoideis, 1-septatis, medio non vel vix constrictis, pallide olivaceis, 10 \approx 4.

Hab. in foliis Mespili germanicæ, Saintes Galliæ.

- * 13. **Ascochyta arenaria** Lév. Voy. p. 115, t. V, fig. 7. — Hypo- 4429
phylla; peritheciis sparsis, raris, innatis, e macula viridi emergen-
tibus, ostiolis inconspicuis, sporulis linearibus, pellucidis, septatis,
sporidiolis globosis.

Hab. in foliis *Aceris campestris* prope Laspi Rossicæ.

- * 14. **Ascochyta ligustrina** Pass. Fung. Gall. novi, in Journ. d'Hist. 4130
nat. 1885, n. 4, pag. 55. — Maculis vermiformibus, subochraceis,
brunneo-marginatis; peritheciis paucis, sparsis, atris, acutiusculis;
sporulis lanceolatis, 1-septatis, ad septum leniter constrictis, oli-
vaceis, 5-7 \approx 2 $\frac{1}{2}$.

Hab. in foliis *Ligustri vulgaris* prope Saintes in Gallia
(BRUNAUD).

- * 37. **Ascochyta bacilligera** Wint. Cont. Flor. myc. Lus. Ser. VI, 4431
p. 17. — Peritheciis in macula irregulari, angulata, determinata,
subtus pallide fusciscente, supra grisea, margine fusco, angusto
cineta, usque 10 mm. lata, hypophylla sparsis, lenticularibus, ni-
tide atris, poro pertusis, 100 μ . diam.; sporidiis bacilliformibus i. e.
tenuissimis, cylindricis, utrinque rotundatis, medio spurie unisepta-
tis, hyalinis, 7-12 \approx 1.

Hab. ad *Phillyreæ angustifoliæ* folia viva, Matta do Bus-
saco in Lusitania (MOLLER).

- * 55. **Ascochyta salicicola** Pass. Fung. Gall. novi in Jour. d'Hist. 4432
nat. 1885, n. 4, p. 16. — Maculis epiphyllis, rubiginoso-fuscis, an-
gulosis; peritheciis exiguis, solitariis vel subgregariis; sporulis
lanceolatis, hyalinis, medio septatis, 8-10 \approx 2 $\frac{1}{2}$.

Hab. in foliis *Salicis albæ* prope Saintes, Bussac, le Port
d'Euvanc etc. in Gallia (BRUNAUD).

- * 56. **Ascochyta Vitellinæ** Pass. Fung. Gall. novi in Jour. d'Hist. 4433
nat. 1885, n. 4, p. 16. — Peritheciis hypophyllis, subgregariis, vela-
tis, subochraceis; sporulis fusiformibus, apicibus acutis, prope me-
dium septatis, hyalinis, 12-15 \approx 4-4 $\frac{1}{2}$.

Hab. in foliis *Salicis vitellinæ* prope Saintes in Gallia
(BRUNAUD).

- * 76. **Ascochyta Calpurniæ** Wint. in Hedw. 1885, I. — Peritheciis in 4434
macula albida vel sordide grisea, angulato-rotundata vel irregu-
lari, linea fusco-purpurea, elevata determinataque limitata ple-
rumque epiphylla, rarius etiam hypophylla gregariis, minutissi-
mis, atris, globosis, tenuissime membranaceis, 60-70 μ . diam.; spo-
rulis fusiformi-acicularibus, saepe inaequalateralibus, utrinque atte-
nuatis, medio uniseptatis, non constrictis, hyalinis, 6-16 \approx 1-1,5.

Hab. in foliis *Calpurniæ silvaticæ* prope Somerset-East ad pedem montis Boschberg, Prom. Bonæ Spei (Mac Owan).

- *77. **Ascochyta Drabæ** Oudem. Contr. à la Flore myc. de Nowaja 4435
Semlja p. 12, t. I, f. 11. — Peritheciis in foliorum laminis petiolisque innatis, sparsis, membranaceis, atris, subsphæricis, poro centrali, denique supra epidermidem prominentibus, 100–130 μ . diam.; sporulis oblongis, 10 \approx 2 $\frac{1}{2}$, utrinque obtusis, medio septatis ibique levissime contractis, hyalinis.

Hab. in foliis *Drabæ alpinæ* in insula Nowaja Semlja.

- *83. **Ascochyta colorata** Peck in 38 Rep. St. Mus. pag. 94, tab. 2, 4436
fig. 9–10. — Maculis indefinitis, sæpe confluentibus, rufis centro brunneis, in superficie inferiore pallidioribus; peritheciis minutis, 100–120 μ . diam., atris; sporulis oblongis sæpe utrinque acutis, rectis vel curvulis, obscure uniseptatis, medio leniter constrictis, 17–25 \approx 7–8, hyalinis.

Hab. in foliis vivis *Fragariæ virginianæ*, West Albany Amer. borealis. — Ab *A. Fragariæ* colore macularum et sporulis differt.

86. **Ascochyta altheina** Sacc. et Bizz. Syll. III, p. 399, var. **Brunneo-cincta** Brunaud in Rev. Myc. 1886, p. 141. — Maculis brunneo-marginatis; sporulis ellipsoideo-oblongis, leniter 1-septatis, medio vix constrictis, 30 \approx 3,5.

Hab. in foliis languescentibus *Althææ officinalis*, Chanier Galliæ.

- *87. **Ascochyta Papaveris** Oudem. Contr. à la Flore myc. de Nowaja 4437
Semlja p. 12, t. I, f. 10. — Peritheciis in pagina superiore (an etiam inferiore?) foliorum nigrescente sparsis, nigris, parvis, 200 μ . diam., membranaceis, e cellulis parenchymaticis, satis amplis, fuliginæ coloris contextis; sporulis late fusoides vel subellipsoideis, hyalinis, medio septatis, 9 \approx 3 $\frac{1}{2}$, gelatina distentis, maxima copia e peritheciis erumpentibus.

Hab. in foliis *Papaveris nudicaulis* in insula Nowaja Semlja.

- *96. **Ascochyta atro-punctata** Wint. in Hedw. 1885, I. — Peritheciis gregariis, rarius sparsis, sæpe circumantibus, in maculis rotundatis indeterminatis, sæpe confluentibus, lutescentibus, amphigenis, immersis, depresso globosis, atris, demum late apertis, cupuliformibus, 160–180 μ . diam.; sporulis oblongo-fusiformibus, curvatis, bicellularibus, cellula superiore plerumque parum crassiore, inferiore deorsum attenuata, hyalinis, 19–24 \approx 3–4.

Hab. in foliis *Osteospermi moniliferi* in monte Tabulari, Promont. Bonæ Spei (MAC OWAN).

- * 97. **Ascochyta Treleasei** Berl. et Vogl. *Ascochyta* spec. Trelease. 4439
Par. Fungi of Viscos. p. 17. — Maculis brunneis, orbicularibus, circiter 3 mm. diam.; peritheciis brunneis, 100-120 μ . diam., vix ad ostiolum carbonaceis; sporulis hyalinis, ovoideis, oblongis vel reniformibus, sæpe medio constrictis, 7-14 \approx 3-5, 2-4-guttulatis, dein bilocularibus.

Hab. in foliis *Silphii integrifolii* et *Vernoniæ noveboracensis* Stoughton, La Crosse, Pammel Amer. bor.

- * 113. **Ascochyta Fagopiri** Thüm. et Boll. Fung. lit. austr. in Soc. 4440
adriat. Sc. Nat. 1885, p. 13, n. 443. — Peritheciis minutis, sparsis, sine macula distincta, semiimmersis, subglobosis, atris; sporulis ellipsoideis, bicellularibus, medio constrictulis, utrinque abbreviato-rotundatis, nucleo magno achroo in quaque cellula 8,5-10 \approx 3-4,5, hyalinis.

Hab. in caulibus aridis *Fagopiri æsculenti* in Goritia.

- * 118. **Ascochyta Oxybaphi** Trelease in Journ. of Myc. I, p. 14. — 4441
Maculis atro-brunneis, rotundis, 1-2 mm. diam.; peritheciis in pagina superiore foliorum, minutis, brunneis, carbonaceis circa ostiolum; sporulis 2-cellularibus, 10-17 \approx 4, quandoque medio constrictis, hyalinis.

Hab. in foliis *Oxybaphi nyctaginei* in Amer. bor.

- * 129. **Ascochyta Spartinae** Trelease in Journ. of Myc. I, pag. 14, et 4442
Par. fung. of Viscos. p. 17. — Maculis rotundis, pallide luteis; sporulis in massam carneo-coloratam exilientibus, hyalinis, rectis vel vix curvatis, sæpe utrinque acuminatis, 35 \approx 3, obscure biseptatis vel demum 2-3-septatis.

Hab. in foliis *Spartinae cynosuroidis*, Madison Amer. bor. — Verisimiliter inter species *Septoriae* vel *Ascochytae* in *Monocotyledoneis* parasiticas inquirenda.

- * 130. **Ascochyta Rhynchosporæ** (Pat.) Berl. et Vogl. *Phoma Rhyn-* 4443
cosporæ Pat. in Rev. Myc. 1886, pag. 53. — Peritheciis sparsis, punctiformibus, globosis, nigris, mycelio radiante, brunneo cinctis; sporulis ovoideis, uniseptatis, brunneis, 6-7 \approx 3-4.

Hab. in *Rhynchospora japonica*, Kioujiou Japon. — « An præsentem mycelio novi generis typus? ».

DARLUCA Cast. — Sacc. Syll. III, p. 410.

- * 1. **Darluca interseminata** Wint. in Journ. of Myc. 1885, p. 102. — 4444

Peritheciis gregariis seu dense sparsis, superficialibus, punctiformibus, globosis, demum collapsis, poro pertusis, membranaceis, fuscis, 80-130 μ . diam.; sporulis oblongis vel oblongo-cylindraceis, utrinque rotundatis, hyalinis, uni-rarissime bi-septatis, ad septum vix vel perparum constrictis, 12-14 \approx 3.

Hab. in foliis *Stellaris*æ, sociâ *Peronospora* *Alsinearum*, in Amer. bor.

TIAROSPORA Sacc. et March. in Rev. Myc. 1885, p. 148 (Etym. a *tiara*, ob sporulas appendiculato-galeiformes). — Perithecia epidermide tecta, globulosa, atra, obtuse papillata, membranacea. Sporulæ ellipsoideæ, 1-septatæ, hyalinæ, granulosæ, utrinque appendice apice dilatato-pileata auctæ. Contextu peritheciæ atro et forma abnormi appendicis sporularum ab *Ascochyta* et *Darluca* mox dignoscitur.

1. **Tiarospora Westendorpii** Sacc. et March. in Rev. Myc. 1886, p. 118. 4445
— Peritheciis gregariis, horizontaliter ellipticis, $\frac{1}{2}$ mm. long., $\frac{1}{4}$ latis; ostiolo obtuso; sporulis ellipsoideo-rhombeis, 1-septatis, non constrictis, 25 \approx 16-18; appendicibus 5-6 μ . long.

Hab. in foliis *Ammophilæ* arundinaceæ, Ostende in Belgio (WESTENDORP).

DIPLODINA West. — Sacc. Syll. III, p. 411.

*1. **Diplodina cupularis** Karst. in Helw. 1885, p. 73. — Peritheciis 4446
superficialibus, confertis vertice collapsis, cupuliformibus, ostiolo papillato, atris, glabris, opacis, minutis, circiter 0,3 mm. diam.; sporulis ellipsoideis, 1-5-septatis vel biguttulatis, hyalinis, 12-17 \approx 6-9.

Hab. in ligno secto betulino ad Mustiala Fennis. — «An *Stagonospora*?».

*2. **Diplodina Acerum** Sacc. et Br. in Rev. Myc. 1886. — Peritheciis 4447
iematis, cortice immersis, erumpentibus, epidermide rupta tectis, sporulis oblongo-fusiformibus, utrinque leniter attenuatis, hyalinis, plerumque 1-septatis et sæpe ad septum constrictis, 12-16 \approx 4-4,5.

Hab. in ramulo cæso delapsoque *Aceris* *Pseudoplatani* prope Troyes Gallis.

*3. **Diplodina Grossularis** Sacc. et Briard in Rev. Myc. 1886. — Pe- 4448
ritheciis sparsis, epidermide velatis, nigris globulosis, lucidis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam.; sporulis oblongo-cylindraceis, obtusis vel leniter fustiformibus, 1-septatis, non contractis, 8-10 \approx 2-2,5, hyalinis.

Hab. in caulibus emortuis *Ribis* *Uvæcrispæ*, Troyes Gallis (BRIARD).

- *9. **Diplodina Chenopodii** Karst. in Hedw. 1885, p. 73. — Peritheciis sparsis, initio epidermide tectis, subsphæroideis, vertice in ostiolum conoideum, poro pertusum attenuatis, glabris, atris, 0,1-0,2 mm. diam.: sporulis oblongatis, utrinque obtusissimis, rectis, 1-septatis, eguttulatis, ad septa vix constrictis, hyalinis, 14-16 = 5,6-6,5.

Hab. ad caules emortuos *Chenopodii* viridis prope Mustiala Fennicæ.

- *12. **Diplodina Gallæ** Ell. et Ev. in Jour. of Myc. 1886, p. 37. — Minuta, atra; peritheciis epidermide tectis, dein ea rupta suberumpentibus, sparsis vel 3-6-aggregatis: sporulis obovatis, 1-septatis, subhyalinis (pallide luteolis), 10-12 = 5-7; basidiis crassiusculis.

Hab. in gallis quercinis, Massachusetts Amer. bor. (C. H. CLARKE).

- *13. **Diplodina Smilacis** Ell. et Ev. in Journ. of Myc. 1886, p. 101. — Peritheciis sparsis, depressis, globosis, $\frac{1}{6}$ mm. diam., epidermide nigrescente, ostiolo minuto perforata, tectis, prominulis; sporulis oblongis, vel ellipsoideo-oblongis, hyalinis, binucleatis, 1-septatis, ad septum vix constrictis, 7-8 = 3-3,5.

Hab. in caulibus emortuis *Smilacis*, Newfield Amer. bor.

- *14. **Diplodina Ammophilæ** Trail. in Scot. Nat. I, p. 76. — Peritheciis sparsis inter nervulos, ovalibus, ostiolo papillato pertusis, obscuris; sporulis hyalinis, late fusiformibus, 30 = 12, uniseptatis, utrinque mucoso-appendiculatis.

Hab. in foliis emortuis *Ammophilæ* arundinacæ, Aberdeen Scot.

CYSTOTRICHA B. et Br. — Sacc. Syll. III. p. 413.

- *2. **Cystotricha aurodisca** Cooke in Grevillea V, p. 56 — Peritheciis ovatis vel ellipsoideis, longitudinaliter erumpentibus, margine serrato, disco aurantiaco; basidiis gracilibus, sursum ramosis; sporulis cylindræis, simplicibus, «an denique uniseptatis?».

Hab. in frustulis lignosis, Darenth Britannicæ.

Sect. 5. Phragmosporæ Sacc.

1. *Phycophragnia* Sacc.

HENDERSONIA Berk. — Sacc. Syll III, p. 419.

- *1. **Hendersonia affinis** Pass. in litt. Brunaud in Rev. 1886, p. 142.

— Peritheciis amphigenis, punctiformibus, hinc inde aggregatis, maculis inter nervos insidentibus, subinde sparsis, atris; sporulis ellipsoideo-oblongis, biseptatis, raro uniseptatis, septis non vel vix constrictis, brunneo-olivaceis, 12,5 \approx 5.

Hab. in foliis putrescentibus Tiliæ europææ, Saintes Gallie.

— Sporulis biseptatis *H. biseptatæ* affinis.

- *3. **Hendersonia Coronillæ** Cooke in Grevillea XIII, p. 97. — Peritheciis sparsis vel gregariis, cuticula leniter elevata tectis, subglobosis vel depressis; sporulis primo uniseptatis, ellipticis, brunneis, 12 \approx 6, dein elongatis, constrictis, leniter curvatis, triseptatis, 18 \approx 7. 4455

Hab. in ramulis Coronillæ Emeri, et Baccharidis halimifoliæ, Kew Britannicæ.

6. **Hendersonia sarmentorum** West. Sacc. Syll. III, p. 420. *Var. laurina* 2993
Cooke in Grevillea: sporulis 18 \approx 5. In Lauro nobili, Kew Brit. — Verisimiliter ad speciem novam referenda sporulis quam in typo multo longioribus. — *Var. Forsythiæ* Brun. in Rev. Myc. 1886, pag. 142: sporulis rectis vel paullo curvatis, 12-14 \approx 5. In ramis emortuis Forsythiæ viridissimæ, Saintes Gallie.

- *7. **Hendersonia ambiens** Cooke in Grevillea XIV, p. 5. — Peritheciis gregariis, cuticula elevata, longitudinaliter perforata tectis, globosis, mox papillatis; sporulis anguste ellipticis, triseptatis, non constrictis, pallide brunneis, 20 \approx 7-8; basidiis sporularum longitudinem æquantibus, mox evanidis. 4456

Hab. in ramulis Aceris dasycarpi, Kew Britannicæ.

12. **Hendersonia Fiedleri** West. Sacc. Syll. III, p. 421. *Var. Symphoricarpi* 2999
Cooke in Grevillea: sporulis triseptatis, 18 \approx 4, pallide coloratis.

Hab. in sarmentis Symphoricarpi racemosi, Kew, Swanscombe Brit.

- *26. **Hendersonia corticalis** E. et Ev. North Am. fungi n. 1377. — Exemplaria Ellisiana (in herb. Saccardiano) sterilia! 4457

Hab. in sarmentis Vitis viniferæ Newfield Amer. bor.

- *28. **Hendersonia Tamaricis** Cooke in Grevillea XIV, p. 5. — Peritheciis laxè gregariis, cuticula elevata tectis, subglobosis, vix papillatis; sporulis ellipticis, utrinque leniter attenuatis, triseptatis, non constrictis, pallide brunneis, 18-20 \approx 7. 4458

Hab. in ramulis Tamaricis gallicæ, Kew Britannicæ. — *Var.*

Elæagni Cooke l. c.: peritheciis minoribus, minus gregariis; sporulis ut in typo. In ramis Elæagni, Kew Britannicæ.

29. **Hendersonia Rubi** West. Sacc. Syll. III, p. 424. — *Forma Loni-* 2316

- ceræ** Brunaud in Rev. Myc. 1886, pag. 141: sporulis 18-20 \approx 6-8, rectis vel vix curvis, ad septa constrictis. In caulibus emortuis *Lonicerae Caprifolii*, Saintes Galliae. — *Forma Vitis* Br. l. c.: sporulis 15-18 \approx 8, ad septa constrictis. In sarmentis emortuis *Vitis viniferae*, Saintes Galliae. — *Forma Rubi Idæi* Br. l. c.: sporulis ellipsoideis vel oblongo subelavatis, 18-20 \approx 8, ad septa constrictis. In sarmentis emortuis *Rubi Idæi*, Saintes Galliae.
- *30. **Hendersonia Staphyleæ** Ell. et Ev. in Journ. of Myc. I, n. 151. — 4459
Peritheciis *Leptosphaeriæ rubrotinctæ*, ejus verisimiliter est pycnidium, similibus et ab iis vix distinguendis; sporulis oblongis, obtusis, rectis vel vix curvulis, 3-septatis, obscure brunneis.
Hab. in sarmentis emortuis *Staphyleæ trifoliæ* in America boreali.
- *31. **Hendersonia Rosæ** Kickx Fl. Myc. Fl. t. I, pag. 389. — Peri- 4460
theeciis sæpius sparsis, maculis pallidis insidentibus, parvis, nigris, prominentibus, epidermide tectis; sporulis ellipsoideis, triseptatis, brunneis, septis leniter constrictis.
Hab. in ramis emortuis delapsis *Rosarum* in Belgio.
- *70. **Hendersonia varians** Cooke in Hark. in Grevillea XIII, p. 112. 4461
— Caulicola; peritheciis gregariis, erumpentibus, demum seminudis, depresso-globosis, atris; sporulis ovalibus, uniseptatis dein bivel triseptatis, magnitudine variabilibus, brunneis, subopacis, 12-15 \approx 7,5, nec constrictis.
Hab. in caulibus *Sphaelliae* in California (HARKNESS). — Affinis *H. diversispora* sed ab ea distinguenda.
- *71. **Hendersonia Thalictri** Pat. in Rev. Myc. 1886, p. 83. — Peri- 4462
theeciis minutis, rugosis, epidermide tectis, mycelio repente cinctis, setis 5-6, rigidis, 45-60 μ , longis acutis; sporulis elongatis, rufis, septatis, septis, constrictis, 9-11 \approx 2.
Hab. in caulibus emortuis *Thalictri* in Sinis (PARRY).
- *88. **Hendersonia Daphnes** Pass. Fung. Gall. novi in Journ. d'Hist. 4463
nat. 1885, n. 4, pag. 16. — Maculis indeterminatis, expallentibus: peritheciis sparsis, nigris, punctiformibus, exiguis, initio epidermide velatis; sporulis primo oblongis, integris, hyalinis, tandem triseptatis, loculis duobus intermediis fuscis, terminalibus acutiuseulis, hyalinis, 15-20 \approx 5.
Hab. in foliis *Daphnes indicæ* prope Saintes in Gallia (BRUNAUD).
- *92. **Hendersonia sparsa** Wint. in Hedw. 1885, I. — Peritheciis 4464
sparsis, immersis, depressis vel subglobosis, ostiolo demum late

aperto erumpentibus, atris, membranaceis, 150-180 \approx 90-120; sporulis oblongo-subcylindricis, utrinque rotundatis, rectis, biseptatis, ad septa non vel vix constrictis, pallidissime dilutissimeque nigricantibus, 12-14 \approx 4.

Hab. in spathis aridis Bobartiae spathaceæ in monte Tabulari Promont. Bonæ Spei (MAC OWAN).

- * 98. **Hendersonia scirpicola** Cooke et Hark. in Grevillea. — Culmicola; peritheciis minutis, punctiformibus, atris, semiimmersis, per- 4465
fusiis; sporulis cylindræis, utrinque rotundatis, triseptatis, constrictis, fuscis, 20 \approx 5.

Hab. in culmis Scirpi, in California (HARKNESS).

- * 120. **Hendersonia Equiseti** Trail in Scot. Nat. I, p. 76. — Peritheciis tectis, ostiolo minuto, sphæricis, circ. 180 μ diam.; sporulis pallide brunneis, fusiformibus vel cylindræis, utrinque obtusis, 12-20 \approx 2-3, triseptatis. 4465

Hab. in caulibus emortuis Equiseti, Aberdeen Scot.

II. *Hyalophragmiæ* Sacc.

STAGONOSPORA — Sacc. Syll. III, p. 445.

- * 4. **Stagonospora Sumacis** Pass. in Litt. Brunaud in Rev. Myc. 1886, p. 142. — Maculis hypophyllis, brunneo-rufis; peritheciis sparsis vel subgregariis, prominulis, subglobosis, nigris; sporulis ovoideis, 3-septatis, hyalinis, 15 \approx 5. 4467

Hab. in foliis languescentibus Rhois glabræ, Saintes Galliæ.

- * 6. **Stagonospora Ilicis** Grove in litteris. — Peritheciis hypophyllis, sparsis v. subinde binis ternisve aggregatis, nigris, globoso-lenticularibus, epidermide, demum poro parvo pertusa, velatis; sporulis parvis, cylindræo-fusoideis, utrinque subacutis, 3-septatis, hyalinis v. in massam collectis, dilutissime olivaceis, 14-17 \approx 2-3. 4468

Hab. in foliis Ilicis Aquifolii, Warley Woods, prope Birmingham, Britannicæ. — Sporulæ subinde 20 μ longæ.

- * 15. **Stagonospora valsoidea** Sacc. et Briard in Rev. Myc. 1885. — Peritheciis globulosis, innatis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., epidermide nigrefacta tectis; sporulis numerosis, ovato-oblongis, subcylindræis, obtusissimis, 3-septato-constrictis, primum hyalinis, guttulato-granulosis, demum fuliginæis, pellucidis, 16-17 \approx 6-7; basidiis 12-16 \approx 4. 4469

Hab. in ramulis emortuis Platani orientalis, Troyes Galliæ (BRIARD).

- * 24. **Stagonospora Pini** Grove New not. Fung. p. 8, n. 52. — Peritheciis epiphyllis, tectis, sparsis, rotundatis, atris; sporulis pallide 4470

luteolis, singulis hyalinis, cylindraceo-fusoideis, utrinque subobtusis, 1-dein 3-septatis, 16-20 \approx 3-4.

Hab. in foliis Pini sylvestris, Hibernia Brit. (H. W. LETT).

- *25. **Stagonospora Heleocharidis** Trail in Scot. Nat. I, p. 76. — Peritheciis sparsis, subepidermicis, ostiolo minuto, sphaericis, 130-170 mm. diam.: sporulis pallide luteolis, fusiformibus, 30-40 \approx 6-7, 5-7-septatis. 4471

Hab. in foliis et culmis emortuis Heleocharidis palustris, Aberdeen Scot.

- *40. **Stagonospora cirrata** Pat. in Rev. Myc. 1886, pag. 83. — Peritheciis sparsis vel in macula nigra gregariis, atris, 200-300 μ . diam., epidermide tectis, ostiolo albescente; sporulis cylindraceis, fusoides vel utrinque rotundatis, 1-3-septatis, 12-15 μ . longis, hyalinis, numerosis, in cirrum vermiformem expulsis. 4472

Hab. in foliis emortuis Caricis amphoræ, Japon Sinarum.

52. **Stagonospora neglecta** (West.) Sacc. Syll. III, p. 455. *Var. colorata* Brun. in Rev. Myc. 1886, p. 142. — Peritheciis sparsis, minutis, numerosis, globulosis, epidermide non decolorata nec inflata tectis, dein suberumpentibus, perforatis; sporulis fusiformi-bacillaribus, 3-septatis, subhyalinis vel vix coloratis, 20-22,5 \approx 3. 2485

Hab. in vaginis Phragmitis communis, Chaniers Galliæ. — An species nova?

Sect. 6. Dictyosporæ Sacc.

CAMAROSPORIU Schulz. — Sacc. Syll. III, p. 459.

- *3. **Camarosporium cistinum** Cooke in Grevillea XIV, p. 5. — Gregarium, cortice interiore immersum; peritheciis globosis, atris, ostiolo conico, corticem perforante præditis, subinde in lineas irregulares dispositis; sporulis ellipticis, elongatis, triseptatis, ad septa non constrictis, interdum cellula centrali longitudinaliter divisa, brunneis, 15-18 \approx 5-7. 4473

Hab. in ramulis Cisti laurifolii, Kew Britanniæ.

- *5. **Camarosporium Caraganæ** Karst. in Hedw. 1885, p. 74. — Peritheciis gregariis, rarius sparsis vel concrenentibus, superficialibus, forma variis, sæpe inæqualibus, atris, glabris, 0,3-0,4 mm. diam.; sporulis ellipsoideis, sæpe inæqualibus, 3-5-septatis, accedente septulo 1 (rarissime 2), longitudinali, fuscis, 14-22 \approx 9-12. 4474

Hab. in ramis decorticatis Caraganæ arborescentis, Aboa

Fenniae — Statum pycnidicum *Cucurbitariae Caraganae* verisimiliter sistit.

- * 8. **Camarosporium Staphyleae** Cooke in Grevillea XIV, p. 5. — Sparsum, cortice tectum vel absconditum; peritheciis atris, globoso-depressis, raro leniter cuticulam elevantibus; sporulis ellipticis, triseptatis, una vel duabus cellulis centralibus transverse divisis, non constrictis, pallide brunneis, 18-20 \approx 8. 4475

Hab. in ramulis *Staphyleae* pennatae et *S. trifoliatae*, Kew Britanniae.

- * 11. **Camarosporium Spiraeae** Cooke in Grevillea XIII, p. 97. — Sparsum; peritheciis paullo amplis, epidermide elevata, tectis, globosis, atris, erumpentibus; sporulis ellipticis, plerumque triseptatis, 1-2 transverse septatis, non constrictis, pallide brunneis, 18 \approx 7,5. 4476

Hab. in ramulis *Spiraeae* callosae et *S. opulifoliae*, Kew Britanniae.

- * 15. **Camarosporium Berberidis** Cooke in Grevillea XIII, p. 97. — Gregarium; peritheciis minutis, subglobosis, cuticula leniter elevata tectis, iis *Phomae* similibus; sporulis magnitudine variis, primo hyalinis et uniseptatis, ellipticis, non constrictis, demum triseptatis ad septa constrictis, cellula centrali longitudinaliter divisa, pallide brunneis, 22-25 \approx 6-9. 4477

Hab. in ramulis *Berberidis vulgaris*, Kew Britanniae.

- * 16. **Camarosporium Limoniae** Cooke in Grevillea XIII, pag. 97. — Gregarium; peritheciis cuticula elevata, dein fissa, tectis, depressis, brunneis, vix papillatis; sporulis ellipticis, utrinque rotundatis, triseptatis, interdum cellula longitudinaliter divisa, tenuiter ad septa constrictis, castaneis, 22-28 \approx 7-10, primo breviter pedicellatis. 4478

Hab. in ramulis *Citri trifoliatae*, Kew Britanniae.

- * 39. **Camarosporium ellipticum** Cooke et Harkn. in Grevillea XIII, p. 112. — Caulicolum; peritheciis gregariis, subglobosis, erumpentibus, mox semi-nudis, atris, pertusis; sporulis ellipticis, 2-4-septatis, loculo uno alterove longitudinaliter divisis, fuscis, nec constrictis, magnitudine variabilibus, 10-18 \approx 7-7,5. 4479

Hab. in caulibus *Mesembryanthemi*, in California (HARKNESS).

- * 51. **Camarosporium Phragmitis** Bruu. in Rev. Myc. 1886, p. 142. — Peritheciis sparsis vel subgregariis, numerosis, globulosis, epidermide parum atrata tectis, ostiolo erumpente; sporulis oblongo-fulgineis, primo 3-septatis, ad septa constrictis, demum loculis uno vel duobus longitudinaliter divisis, 18-22 \approx 7-8. 4480

Hab. in vaginis *Phragmitis communis*, Saintes Gallæ. —

An *Hendersonia Phragmitis senescens*?

- *52. **Camarosporium metabolicum** Trait. in Scott. Nat. Apr. 1886. 4481
p. 267. — Peritheciis innatis, sparsis, subglobosis, 280 μ . diam., ostiolo brevissimo; sporulis ovoideis, ellipsoideis v. subtrapezoideis, 5-6-septato-muriformibus, medio vix constrictis, 30 \approx 12-13, rarius 20 \approx 12, v. 30 \approx 9, v. 33 \approx 15, brunneo-fuliginis,

Hab. in foliis emortuis *Ammophilæ arundinaceæ* prope Aberdeen Scotiæ.

- *60. **Camarosporium arenarium** Sacc. Bomm. et Rouss. in Soc. R. 4482
Bot. Belg. 1886, p. 182. — Peritheciis sparsis, subglobosis, $\frac{1}{4}$ mm. diam., epidermide tectis, dein erumpentibus, prominulis; sporulis oblongis, subfusiformibus, olivaceis, 7-septatis, muriformibus, 24-36-10 \approx 14.

Hab. in culmis *Elymi arenariæ*, Ostende Belgio.

DICHOMERA Cooke — Sacc. Syll. III, p. 471.

- *4. **Dichomera æquivoca** Pass. in Erb. Critt. Ital. Ser. II, n. 1391, 4483
— Peritheciis discretis, superficialibus, celluloso-confertis; sporulis parvulis, fuscis, subglobosis, ut plurimum 7,8 μ . diam., uni- vel biseptatis vel sæpius radiatim septatis, aut etiam ellipticis, triseptato-muriformibus, et tunc 10 \approx 5.

Hab. in caulibus siccis *Artemisiæ camphoratæ*, pr. Parma. Ital. bor. (PASSERINI).

Sect. 7. Scolecosporæ Sacc.

SEPTORIA Fr. Sacc. Syll. III, p. 474.

- *32. **Septoria cirrosa** Winter in Journ. of Myc. 1885, p. 122. — 4484
Maculis sparsis v. confluentibus, subrotundatis v. irregularibus, submarginis, pallide fuscidulis, centro sæpe pallidioribus, area lata, luteola circumdatis, indeterminatis, usque 7 mm. latis; peritheciis amphigenis, laxe gregariis, semiimmersis, depresso globosis, poro late per-tusis, atris, 100-130 μ . diam.: sporulis cylindræco-filiformibus, sæpe flexuosis curvatisve, utrinque acutis, chlorino-hyalinis, plerumque 3-5-septatis, 30-45 \approx 2-2,5, cirrose expulsis.

Hab. ad folia viva *Staphyleæ trifoliæ*, Missouri in America boreali.

- *44. **Septoria capensis** Wint. in Hedw. 1885, I. — Peritheciis in 4485
maculis sordide albidis vel griseis, margine determinato, fusco, per-

lato cinctis, rotundatis vel angulatis, $1\frac{1}{2}$ -2 mm. lat., epiphyllis, immersis, demum erumpentibus, depresso globosis, fuscis, tenuissime membranaceis, 130-150 μ . diam.; sporulis filiformibus, saepe flexuosis curvatisque, pluriseptatis, hyalinis, 30-50 \approx 2-2 $\frac{1}{2}$.

Hab. in foliis languiscentibus Zizyphi mucronati in Prom. Bon. Spei (MAC OWAN).

*45. **Septoria Hydrangeæ** Bizz. Fungi Ven. novi vel crit. p. 6. — 4486

Maculis brunneo-ferrugineis, rubro-sanguineo cinctis, irregularibus, dein confluentibus, peritheciis immersis, contextu parenchymatico, brunneo, indistincto; sporulis cylindræis, rectis v. flexuosis, hyalinis, non septatis, 16-22 \approx 1,5.

Hab. in foliis Hydrangeæ hortensis in horto botanico Patavino. — Species valde noxia.

*50. **Septoria Rhois** Lév. Voy. dans Ross. mer. et Crim. tab. V, f. 4. 4487

— Hypophylla; maculis fuscis, marginatis; peritheciis sparsis, raris, innatis, nucleo albido faretis, ostioliis inconspicuis; sporulis filiformibus, numerosis, 3-4-septatis, pellucidis.

Hab. in foliis Rhois Cotini, Orianda Imperiale Rossæ mer.

60. **Septoria pleosporioides** Sacc. Syll. III, p. 488. *Var.* **Cirsii** Karst. 3199

in Hedw. 1884, p. 4. — Peritheciis basi filamentis brevibus obsitis; sporulis filiformibus, apicibus acutis, obsolete guttulatis, 35-52 \approx 1-2. In caule Cirsii in Fennia.

*80. **Septoria Cerasi** Pass. Fung. Gall. novi in Journ. d'Hist. nat. 4488

Bord. 1885, n. 4, p. 16. — Maculis subdiscoideis, atro-sanguineis; peritheciis minutis, immersis, vix ostiolo superne perspicuo foveatibus; sporulis filiformibus, integris, hyalinis, cirro brevi ejectis, rectis vel curvulis, 15-30 \approx 1 $\frac{1}{2}$.

Hab. in foliis Pruni Cerasi prope Saintes, Pessines etc. in Gallia (BRUNAUD).

154. **Septoria didyma** Fuck. — Sacc. Syll. III, pag. 501. *Var.* **Santonensis** Pass. in litt. Brunaud in Rev. Myc. 1886, p. 142. — 2707

Maculis subangulosis vel irregularibus, brunneis, subinde centro griseo-brunneis, margine subtili, obscuriore; peritheciis minutis, brunneo-nigris; sporulis cylindræis vel subfusiformibus, medio 1-septatis, subrectis vel curvatis, 22,6-38 \approx 4-5, hyalinis vel subhyalinis, granulosis.

Hab. in foliis Salicis albæ, Saintes, Chaniers Galliæ.

*155. **Septoria blennorioides** (Karst.) Berl. et Vogl. *Phoma blennorioides* Karst. Symb. XV, p. 153. — 4489

Peritheciis gregariis, epidermide laciniatim rupta cinctis, forma variis, ut plurimum sub-

sphaeroideis, deinde ore lato apertis, atris, 80-150 mm. diam.: sporulis bacillaribus vel filiformibus, rectis, eguttulatis, hyalinis, 7-18 \approx 1-2.

Hab. in pag. sup. foliorum exsiccatorem Salicis pendulae in agro Mustialensi Fenniae.

- * 160. **Septoria musiva** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884. 449
p. 138. — Maculis parvis, numerosis, angularibus, brunneis saepe areolis pallidioribus, minutis, angularibus variegatis; peritheciis paucis, epiphyllis, depressis, nigris vel nigrescentibus; sporulis cylindraceis subtilibus, curvulis quandoque obscure triseptatis, 30-35, hyalinis.

Hab. in foliis Populi moniliferae, Albany Amer. bor. — A *Sept. Populi* maculis musivo-variegatis et septatione sporularum diversa.

- * 171. **Septoria serpentaria** Ell. et Mart. Am. Not. 1884. p. 70. — 449
Maculis castaneo-brunneis, demum obscuris, margine obsolete, 1 mm. diam.; peritheciis atris, subglobosis, innato-epiphyllis, 156-140 μ . d.; sporulis subhyalinis, cylindraceis, curvatis, 82-108 \approx 4.

Hab. in foliis Quercus laurifoliae, New Florida Amer. bor.

- * 185. **Septoria acuum** Oud. Aanw. IX-X. p. 32. — Peritheciis...; 449
sporulis brevi-bacilliformibus, hyalinis, continuis, 16-18 \approx 2 $\frac{1}{2}$ -2 $\frac{1}{2}$, vertice non latioribus.

Hab. in acubus Pini silvestris, Wageningen Hollandiae.

- * 189. **Septoria Colensoi** Cooke in Grevillea XIV, pag. 89. — Macu- 449
lis suborbicularibus, albidis, margine elevato, purpureo-lineato; peritheciis paucis, semiimmersis, punctiformibus, atris; sporulis retis flexuosisve, linearibus, multinucleatis, hyalinis, 5 \approx 1.

Hab. in foliis coriaceis plantae ignotae (suffruticis?) New Zealand.

- * 190. **Septoria Melastomatis** Pat. in Rev. Myc. 1886. p. 84. — Ma- 449
culis obscure brunneis, amphigenis; peritheciis hypophyllis, minutis, numerosis, gregariis, nigris, lucidis, conoideis; sporulis elongatis, flexuosis, aculeatis, hyalino-viridulis, 5-6-septatis, 60-90 \approx 5.

Hab. in foliis Melastomatis yunnanensis, Tsang-Chan Sinarum (Ab. DELAWAY).

- * 191. **Septoria pachyspora** E. et Hol. in Journ. of Myc. I, p. 6. — 449
Peritheciis epiphyllis, atris, 100-130 μ . d., in maculis candidis, tenuibus, subangularibus vel fere pustulis, subrotundis latis, 1-2 mm., margine purpureo-atro cinctis; sporulis arcuato-fusiformibus, 4-6-septatis, 35-60 \approx 3, saepe luteo-virentibus.

Hab. in foliis Zanthoxyli americani, in America boreali.

- *192. **Septoria Symphoricarpi** E. et E. in Journ. of Myc. 1886, p. 38. 4496
 — Maculis suborbicularibus, parvis, 1-2 mm. diam., albescentibus, margine obscuriore cinctis; peritheciis sublenticularibus, atris, epiphyllis, paucis, (1-5) prominulis; sporulis subcylindraceis, sursum acutis, sæpe rectis, 20-40, sæpe 30-40 \approx 2, tenuissime 1-3-septatis.
Hab. in foliis Symphoricarpi. Valley City, Dakota Amer. bor. (PR. A. B. SEYMOUR).
- *193. **Septoria Anthyllidis** Sacc. in Barbey Fl. Sard. Comp. p. 249. 4497
 — Maculis vagis, arescendo albicantibus immarginatis, subinde folium totum occupantibus; peritheciis punctiformibus, lenticularibus, pertusis, 60-100 μ . diam.; sporulis bacillaribus, leniter curvis, 25-30 \approx 1, obsolete guttulatis, hyalinis.
Hab. in foliorum pag. inf. Anthyllidis vulnerariæ prope Sassari Sardinia.
- *194. **Septoria Mimuli** Winter in Journ. of Myc. 1885, p. 122. — Ma- 4498
 culis sparsis vel gregariis, rotundatis angulatisve, interdum irregularibus et confluentibus, arescendo-albidis, griseo-vel sordide-fusciscentibus, margine lato, distincto, purpureo vel fusco et area indeterminata, fusciscenti cinctis, $\frac{1}{2}$ -3 mm. latis; peritheciis solitariis vel paucis punctiformibus, atris, globosis, 60-90 μ . latis; sporulis cylindricis, utrinque attenuatis, remote septatis, hyalinis, curvatis, 3,5-4,5 \approx 2,5.
Hab. ad folia viva Mimuli ringentis, Missouri Amer. bor.
195. **Septoria astragalicola** Peck Torr. Bot. Club. vol. XII, n. 4. — 4499
 Maculis indefinitis vel obsoletis; peritheciis hypophyllis, lenticularibus, 12,5-17,5 mm. lat., atris; sporulis subcylindraceis, constrictis vel leniter curvatis, obtusis, 3-6 \approx 5-6, subinde plurinucleatis.
Hab. in foliis vivis vel languescentibus Astragali pr. Arizona Amer. bor. (M. E. JONES).
- *201. **Septoria Sycii** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, 4500
 p. 137. — Maculis parvis, suborbicularibus, sparsis vel raro subconfluentibus, albis vel cinereis, aridis; peritheciis paucis, epiphyllis, nigrescentibus; sporulis filiformibus, rectis vel curvis, 4-6, hyalinis.
Hab. in foliis vivis Sycii angulati, Albany Amer. bor.
- *215. **Septoria semilunaris** Johans. Svamp. fran. Island. p. 173. — 4501
 Peritheciis sparsis, superficialibus, productis, siccitate depressis; sporulis fusoideis, curvulis, acutiusculis, plerumque lunatis, simplicibus, eguttulatis, hyalinis, 10-15 \approx 3-5.

Hab. in pedunculis emortuis Dryadis octopetalæ Eskifjörður Islandiæ orientalis.

- * 216. **Septoria bacilligera** Winter in Journ. of Myc. 1886. p. 122. 450
 — Maculis parvis, angularibus vel irregularibus, interdum confluentibus, plerumque 1 mm. diam., candidis exaridisque linea atrinectis; peritheciis sparsis, minutissimis, globosis, membranaceis, poro pertusis, atris, 80-90 μ . diam.; sporulis numerosissimis, bacilliformibus, sæpe uno apice parum incrassatis, 1-3-septatis, demum ad septa constrictis, hyalinis, plerumque rectis, 9-23 \approx 3-3,5.

Kab. ad Ambrosiæ trifidæ folia viva, Missouri Amer. bor.

- * 217. **Septoria Salicifoliæ** (Trel.) Berl. et Vogl. *Ascochyta salicifoliæ* Trelease in Journ. of Myc. I, pag. 14. — Maculis numerosis, rotundatis, circ. 1 mm. diam., intense carneolis; peritheciis amplis, concoloribus; sporulis hyalinis, fusiformibus, sæpius leniter curvatis, 1-septatis, 3-4-guttulatis, 30-50 \approx 2-3,5. 450

Hab. in foliis Spirææ salicifoliæ, Viscosin Amer. bor.
 — Primo obtutu *Septoriam ascochytoïdem* amulans, sed ab ea maculis non obscure marginatis, sporulis minus longis difert.

- * 228. **Septoria Eriophori** Oudem. Cont. à la Flore myc. de Nowaja Semlja p. 10, t. I, f. 5. — Peritheciis foliicolis, minutissimis, 70 μ . tenerrimis, fuscis, epidermide tectis, ostiolo denique circumcirca aperturam profundius tincto, prominentibus; sporidiis numerosissimis, hyalinis, bacilliformibus, undulato-curvatis, apice acutis, basi truncatis, 70-75 \approx 3. 450

Hab. in foliis Eriophori angustifolii, Nowaja Semlja.

- * 251. **Septoria Mentzelæ** Ellis et Kellerm. in Journ. of Myc. 1886. p. 4. — Maculis amphigenis, palidis definitis, $\frac{1}{1}$ - $\frac{1}{2}$ cm. diam.; peritheciis immersis, perspicuis in utraque foliorum pagina, nigris, 100 μ . diam.; sporulis filiformibus, subundulatis, nucleolatis, 40-60 \approx $1\frac{1}{1}$ - $1\frac{1}{2}$, hyalinis. 450

Hab. in foliis vivis Mentzelæ nudæ, Kansas Amer. bor.

- * 298. **Septoria Penzigii** Cocc. et Mor. Eaum. Funghi della provincia di Bologna, Cent. III, p. 23, t. II, f. 28-31. — Peritheciis sparsis v. subappropinquantibus, membranaceo-carbonaceis, in maculis albidis, zona brunnea, inæqualiter lata cinctis insidentibus, tectis dein erumpentibus, globulosis, 80-95 μ . diam.; sporulis linearibus, hyalinis, eseptatis undulatisque, 16-24 \approx $\frac{3}{1}$ -1. 450

Hab. in foliis Aquilegiæ vulgaris prope Campi di Lu-strola, Bologna Ital. med.

- * 330. **Septoria Eringii** West. V. Not. p. 31 (nec Pass.). — Maculis 540

amphigenis, irregularibus, angulosis, a nervis foliorum limitatis, albidis, subinde brunneo-cinctis; peritheciis minutis, nigris, sparsis, maculas griseo colorantibus; sporulis in cirrum albidum exeuntibus, cylindraceis, rectis, $50 \approx 2,5$.

Hab. in foliis *Eryngii maritimi* in Belgio. — *S. Eryngii* Pass. Syll. III, p. 332, monente cl. Oudemans in litt. diversa est et nominetur *S. eryngicola* Oud. et Sacc.

- * 332. **Septoria Pyrolæ** Ell. et Mart. in Journ. of Myc. 1885, p. 100. 4508
— Maculis luteo-albis, hypophyllis sed etiam in pagina superiore foliorum conspicuis, inter nervos, margine brunneo-cinctis; peritheciis atris, sursum perforatis; sporulis filiformibus, $25-35 \approx 0,75$ utrinque obtusis, vix curvulis.

Hab. in foliis vivis *Pyrolæ secundæ*, Red Rock, Lake Superior Amer. bor. (Prof. J. Macoun).

- * 437. **Septoria Coprosmae** Cooke in Grevillea XIV, p. 129. — Ma- 4509
culis orbicularibus, minutis, pallidis, nigro-limitatis; peritheciis paucis, semiimmersis, atris, pertusis; sporulis cylindraceis, flexuosis, obsolete guttulatis, hyalinis, $30 \approx 2$.

Hab. in foliis emortuis, delapsisque *Coprosmae*, New Zealand Austral. (COLENSO).

344. **Septoria Ellisii** Berl. et Vogl. *Septoria Gratiolæ* E. et M. in 4510
Jour. of Myc. I, p. 107. — Peritheciis punctiformibus, minutis, emergentibus, sparsis, in parte exsiccata foliorum, sed non in maculis definitis; sporulis filiformibus, nucleolatis, rectis vel subinde curvatis, continuis, $30-40 \approx 3\frac{1}{4}-1$.

Hab. in foliis languidis *Gratiolæ quadridentatæ*, Florida Amer. bor. (F. R. SCRIBNER). — «An diversa a *S. Gratiolæ* S. et Sp.?»

350. **Septoria acanthina** Sacc. et Magn. Misc. Myc. II. n. 151. — Ma- 4511
culis amphigenis, subcircularibus, brunneis; peritheciis innatis, lenticularibus, pertusis, atris, $120-150 \mu$ diam.; sporulis bacillaribus, curvulis, utrinque obtusiusculis, $40-50 \approx 2,5-3$, spurie 3-5-septatoguttulatis, hyalinis.

Hab. in foliis *Acanthi mollis*, Millis in Sardinia (MAGNUS). — *Septoria Acanthi* Thüm. sec. descriptionem vere diversa videtur.

- * 352. **Septoria Diervillæ** Peck 38 Rep. St. Mus. pag. 98. — Macu- 4512
lis suborbicularibus, albis vel cinereis, margine lato, indefinito, brunneo vel purpureo-brunneo cinctis; peritheciis epiphyllis, minutis nigris; sporulis filiformibus, curvis, flexuosis, exilibus, $25-40 \mu$ longis.

Hab. in foliis vivis vel languidis *Diervillæ trifidæ* in montibus Adirondack Amer. bor.

- * 353. **Septoria diervillicola** E. et E. in Journ. of Myc. I, 44 (sub *S. Diervilla*). — Maculis brunneo-atris, 2-3 mm., plerumque margine crasso, inflato, atro-purpureo cinctis; peritheciis hypophyllis, tenuibus, atris, innato-erumpentibus; sporidiis filiformibus, sæpe curvatis, nucleolatis, 25-35 \approx 1-1½, viridibus.

Hab. in foliis vivis *Diervillæ trifidæ*, *Magnolia* Am. bor. (C. H. CLARKE). — «An a *S. Diervilla* Peck satis distincta?».

- * 356. **Septoria flagellaris** Ell. et Ev. in Bull. Torr. bot. Club. 1883. p. 97. — Maculis orbicularibus, rufo-brunneis, 1-2 mm. diam., definite limitatis, concentrice rugosis, subinde albescentibus, in pagina superiore foliorum; peritheciis in quaque macula solitariis, centrum occupantibus vel 2-3 coalitis, sublenticularibus, 80-120 μ . diam.; sporulis nucleatis vel 4-8-septatis, 35-44 \approx 1,5, uno apice latioribus, atque ad alium gradatim attenuatis.

Hab. in foliis vivis *Calystegia* sepium, Newfield Amer. bor. — A *S. Convolvuli* et *S. Sepium* probe distinguenda.

- * 360. **Septoria Lubiniæ** Pat. in Rev. Myc. 1886, p. 84. — Peritheciis paucis, macula hypophylla, decolorata insidentibus; sporulis filiformibus, hyalinis, obscure septulatis, 48-60 μ . longis.

Hab. in foliis *Lubiniæ*, Thibet Asiae (AB. DAVID).

- * 374. **Septoria Salviæ-pratensis** Pass. Fung. Gall. novi in Journ. d'Hist. nat. 1885, n. 4, p. 16. — Maculis subrotundis vel angulosis, brunneis, saturatius marginatis; peritheciis numerosis, globoso-lenticularibus, atris; sporulis bacillaribus, integris, hyalinis, 30-32 μ . long.

Hab. in foliis *Salviæ pratensis* prope Breuil-Magné in Gallia (BRUNAUD). — A *Septoria Salviæ* differt sporulis duplo brevioribus.

375. **Septoria Brunellæ** E. et H. in Journ. of Myc. I, p. 6. — Maculis atro-nigris, margine brunneo, subtili limitatis; peritheciis crassis, sparsis in parte superiore macularum, atris, leviter prominentibus, 100-130 μ . diam.; sporulis clavatis, subfuscis, multiseptatis, angustis, 40-75 \approx 1½-2.

Hab. in foliis *Brunellæ vulgaris* in America boreali.

- * 404. **Septoria unicolor** Winter in Journ. of Myc. 1885, p. 123. — Maculis angulosis vel rotundatis, olivaceis, plerumque determinatis, rarius indeterminatis, concolore marginatis, usque 5 mm. magnis, sed plerumque minoribus; peritheciis epiphyllis, minutissimis.

sparsis, globosis, tenuissime membranaceis; sporulis filiformibus sæpe flexuosis, hyalinis, non vel vix visibile septatis, 26-32 \approx 1.

Hab. ad folia viva *Mulgedii acuminati*, Missouri Amer. bor. — A *Septoria Mulgedii* et aliis speciebus in Compositis lectis valde diversa

- * 406. **Septoria tenuissima** Winter in Journ. of Myc. 1885, p. 122. 4519
— Maculis minutis, rotundato-angulatis, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. latis, arescendo-candidis, linea elevata, fusco-atra circumdatis, area indeterminata, viridi-fusca cinctis; peritheciis sparsis, plerumque epiphyllis, punctiformibus, globosis, atris, poro pertusis, 60-70 μ . diam.; sporulis tenuissime filiformibus, non distincte septatis, sæpe flexuosis, hyalinis, 20-28 μ . longis.

Hab. ad *Bœhmeria cylindrica*, Missouri Amer. bor.

- * 407. **Septoria fumosa** Peck in 38 Rep. St. Mus. p. 98. — Maculis 4520
angularibus, vel irregularibus, sæpe confluentibus, fumose-brunneis vel griseo-brunneis, obscure marginatis; peritheciis epiphyllis, 62-75 μ . diam., atris; sporulis filiformibus, 30-50 μ . longis.

Hab. in foliis vivis vel languidis *Solidaginæ canadensis*, Albany Amer. bor.

- * 408. **Septoria Agrimonie-Eupatorie** Bomm. et Rouss. in Bull. Soc. 4521
Bot. Belg. 1886, pag. 182. — Peritheciis epiphyllis, numerosis, minutis, nigris, macula amphigena, pallide brunnea, orbiculari vel irregulari insidentibus; sporulis filiformibus, leniter flexuosis, 30-54 \approx 2-2,5, hyalinis granulosisque.

Hab. in foliis *Agrimoniae Eupatorie*, Yvoir Belgii.

- * 429. **Septoria posoniensis** Bäumler in Hedw. 1885, p. 75. — Pe- 4522
ritheciis in maculis rotundatis seu irregularibus, griseo-viridulis vel cinereis, margine angusto, obscuriore cinctis, epiphyllis, gregariis, minutissimis, immersis, globosis, ostiolo pertuso erumpentibus, tenuissime membranaceis, fuscidulis, 60-90 μ . diam.; sporulis filiformibus, tenuissimis, flexuosis, 20-40 \approx 1, hyalinis.

Hab. in foliis vivis *Chrysosplenii alternifolii* prope Pressburg Hungariæ.

- * 422. **Septoria Cephalariæ-alpinæ** Roum. in Rev. Myc. 1885, p. 171. — 4522
Maculis epiphyllis, albescentibus, numerosis, parvis, difformibus, 3-9-aggregatis, sæpius confluentibus, margine purpureo cinctis; peritheciis punctiformibus, nigris, 100-500 μ . diam.; sporulis filiformibus, tortuosis, 50-60 \approx 1-1,5, 5-7-septatis, lutescentibus.

Hab. in foliis languescentibus *Cephalariæ alpinæ*, Rouen Galliæ (Ab. LETENDRE).

- * 423. **Septoria Puniceæ** Peck in 38 Rep. St. Mus. p. 97. — Maculis 4524
4-8 mm. latis, indefinitis, supra brunneo-nigrescentibus, subtus
brunneis vel rufo-brunneis; peritheciis hypophyllis; sporulis lon-
gis, flexuosis, filiformibus, 100-110 μ . longis, hyalinis.

Hab. in foliis vivis Asteris puniceæ, Caroga Amer. bor.

- * 439. **Septoria consimilis** E. et M. in Journ. of Myc. I, p. 100. — 4525
Maculis brunneis, non definite limitatis, $\frac{1}{2}$ -1 cm. diam.; perithe-
ciis brunneis, subglobois, innatis, amphigenis, 90-100 μ ., sparsis
in parte superiore macularum, in utraque pagina foliorum conspi-
cuis; sporulis filiformibus, multinucleatis, leniter curvatis, sæpe
utrinque obtusis, 30-45 \approx 2-2 $\frac{1}{2}$, hyalinis.

Hab. in Lactuca culta Geneva et Newfield Amer. bor. (AR-
TUR). — Nonnullis notis a *Sept. Lactuce* certe distinguenda.

- * 463. **Septoria cannabina** Peck in Thirty-fifth Rep. St. Mus. Bot. 4526
1884, p. 137. — Maculis suborbicularibus, parvis, cinereis, sæpe
margine rufo-brunneo cinctis; peritheciis minutis, numerosis, epi-
phyllis, centrum macula occupantibus, nigrescentibus; sporulis fi-
liformibus, curvis, 20-30, hyalinis.

Hab. in foliis vivis Cannabis sativæ, Cold Spring Ame-
ricæ borealis.

- * 464. **Septoria infusata** Winter in Journ. of Myc. 1885, p. 122. — 4527
Maculis magnis, rotundatis v. irregularibus, sordide griseis, sæpe
variegatis et subzonatis, area perlata, fusca, indeterminata cinctis,
usque 20 mm. longis, 6 mm. latis; peritheciis sparsis gregariisve,
prominulis, globosis, atris, tenuissime membranaceis, 87-105 μ . d.;
sporulis filiformibus, utrinque rotundatis, sursum perparum increas-
satis, multiseptatis, hyalinis, 50-70 \approx 1,5-2.

Hab. ad folia viva Lepachidis pinnatæ, Missouri in Ame-
rica boreali.

- * 465. **Septoria Oxalidis-japonicæ** Pat. in Rev. Myc. 1886, p. 84. — 4528
Peritheciis minutis, brunneo-nigris, macula rufescente insidentibus;
sporulis bacillaribus, numerosissimis, 30-40 \approx 2, utrinque aculeatis,
incurvatis, (septulatis).

Hab. in foliis Oxalidis japonicæ, Thibet orient. Asiæ (AB.
DAVID).

- * 466. **Septoria Androsaces** Pat. in Rev. Myc. 1886, p. 84. — 4529
Peritheciis minutis, nigris, numerosis, macula nigra, epiphylla insi-
dentibus; sporulis numerosis, filiformibus, hyalinis, 39-45 μ . long.

Hab. in foliis emortuis Androsaces rotundifoliæ, Lan-
kong Yunnann Sinarum (AB. DELAWAY).

*471. **Septoria Convolvuli** Desm. — Sacc. Syll. III, pag. 536. *Var.* 2909
Soldanellæ Brun. Liste Sphaerop. p. 49. — Sporulis filiformi-acicularibus, rectis, curvis vel tortuosis, 40-50 \approx 0,5-1, parce guttularis. In foliis Convolvuli Soldanellæ, Saintes Galliae.

*472. **Septoria Swertiae** Pat. in Rev. Myc. 1886, pag. 181. — Maculis 4530
 circularibus, epiphyllis, rufis; peritheciis minutis, atris, centro macularum congestis; sporulis filiformibus, hyalinis, curvatis, 20-23 \approx 1, continuis, eguttularis.

Hab. in foliis Swertiae, Yunnan Sinarum (Ab. DELAVAY).

*473. **Septoria Boërhaviae** Pat. in Rev. Myc. 1886, p. 84. — Peritheciis 4531
 minutis, rotundatis, macula pallida, rufo-brunneo-limitata insidentibus, numerosis; sporulis linearibus, obtusis, curvatis, irregularibus, hyalinis vel viridulis, subinde 2-3-septatis, 41-51 \approx 3-5.

Hab. in foliis Boërhaviae verticillatae in Abyssinia.

*482. **Septoria Dalibardæ** Peck 38 Rep. St. Mus. p. 97. — Maculis 4532
 minutis, albescentibus vel cinereis, rufo-brunneo-marginatis; peritheciis minutis, epiphyllis, raris, atris; sporulis filiformibus, subrectis, 37-50 μ . longis.

Hab. in foliis vivis Dalibardæ repentis, Caroga Amer. bor. 4533

*489. **Septoria Briosiana** Mor. Giorn. Bot. It. 1885, p. 39. — Peritheciis 4534
 epiphyllis, in maculis parvis, nigrescentibus, oblongis irregularibusque insidentibus, globuloso-depressis, erumpentibus, 84-96 μ . diam.; sporulis tenuissimis, bacillaribus, plus vel minus incurvatis et undulatis, continuis, incoloribus, hyalinis, 9-11 \approx $1\frac{1}{2}$ - $\frac{3}{4}$; basidiis acuminatis, non guttularis, hyalinis, 32-40 \approx $1\frac{1}{2}$ -2,

Hab. in foliis Tritici sativi in Italia bor.

*517. **Septoria nigrificans** Pat. in Rev. Myc. 1886, p. 84. — Maculis 4534
 brunneis, epiphyllis, ovoideis, elongatis, in pagina inferiore foliorum nitide nigro-limitatis; sporulis hyalinis, rectis, filiformibus, non septatis nec guttularis, 24-30 μ . longis.

Hab. in foliis emortuis Caricis, Thibet Asiae (Ab. DAVID).

*521. **Septoria Phalaridis** Cocc. et Mor. Enum. Fung. della provincia di Bologna, Cent. III, pag. 24, t. II, f. 22-25. — Peritheciis 4535
 erumpentibus, membranaceis, brunneis, globulosis, 96-105 μ . diam., in maculis pallide luteis foliorum vaginarumque insidentibus; sporulis hyalinis, filiformibus, rectis vel leviter undulatis, prope medium obscure uniseptatis, 20-25 \approx $1\frac{1}{4}$.

Hab. in foliis et vaginis Phalaridis brachystachydis prope Monte Paderno, Bologna Ital. med.

*551. **Septoria alliicola** Baumler in Hedw. 1885, p. 75. — Perithe- 4536

ciis numerosis, gregariis, sub epidermide nidulantibus, globosis, ostiolo simplici, pertuso erumpentibus, atris, 200-250 μ . diam.; sporulis elongato-cylindraccis, flexuosis, fere hyalinis, plerumque uniseptatis, 20-50 \approx 3-5.

Hab. in scapis Allii flavi, Pressburg Hungariæ.

- *570. **Septoria Dentariæ** Peck in 38 Rep. St. Mus. p. 97. — Maculis latis, suborbicularibus, indefinitis, virescentibus; peritheciis minutis, numerosis, vix prominulis, epiphyllis, atris; sporulis filiformibus, subrectis, 20-30 μ . longis. 4537

Hab. in foliis vivis vel languidis Dentariæ diphyllæ in montibus Adirondack Amer. bor.

- *576. **Septoria equisetaria** Karst. in Hedw. 1885. p. 73. — Peritheciis subsparsis, innatis, subsphaericeis, poro pertusis, atris, membranaceis, contextu parenchymatico, fuligineo, minutissimis; sporulis bacillari- vel elongato-fusoideis, rectis vel curvatis, 3-septatis, hyalinis vel luteolo-hyalinis, 20-27 \approx 4. 4538

Hab. in caulibus languidis Equiseti fluviatilis prope Mustiala Fennicæ.

PHLEOSPORA Wallr. — Sacc. Syll. III, p. 577.

- *1. **Phleospora achyranthea** Sacc. et Berl. in Rev. Myc. 1885. — Maculis albidis vel ochraceis; peritheciis innatis, matrice parum mutata efformatis, late ostiolatis; sporulis bacillaribus, rectis curvulisve, binucleatis vel spurie 1-2-septatis, 18-24 \approx 3, hyalinis. 4539

Hab. in foliis vivis Achyranthis argenteæ, in Algeria.

RHABDOSPORA Mont. — Sacc. Syll. III, p. 578.

- *1. **Rhabdospora decorticata** Cooke et Hark. in Grevillea XIII, p. 112. — Peritheciis erumpenti-superficialibus, subglobosis, atris, papillatis, levibus; sporulis filiformibus, flexuosis vel curvulis, hyalinis, continuis, 25 μ . longis. 4540

Hab. in ligno Acaciæ decorticato in California (HARKNESS).

- *6. **Rhabdospora scoparia** Sacc. et Br. Miscell. Myc. II, pag. 24. — Peritheciis gregariis, subcutaneo-erumpentibus, globulosis, obsolete et obtuse papillatis, $\frac{1}{6}$ mm. diam., atro-nitidulis; sporulis cylindraccis, curvulis, utrinque rotundatis, nubiosis vel 4-guttulatis, hyalinis, 28-36 \approx 6-7. 4541

Hab. in ramulis Sarothamni scoparii, Troyes Gallicæ (BRIARD). — Affinis *Rhabd. Cordobensi*.

- *22. **Rhabdospora Fraxini** Pass. in Journ. hist. nat. Bord. 1885, p. 4542

136. Brunaud Liste Sphærops. p. 51. — Maculis stromaticis, nigris, elongatis, irregularibus; peritheciis punctiformibus, sparsis, nigris, duris, subglobulosis vel vix conoideis; sporulis parum curvatis, filiformibus, subinde uno apice parum clavatis, hyalinis, 45-50 \approx 0,5-1.

Hab. in ramis emortuis Fraxini excelsioris, Saintes Gallie.

- * 50. **Rhabdospora Drabæ** (Fuck.) Berl. et Vogl. *Phoma Drabæ* Fu. 4543
ckel in Heuglin Reisen Nordpol. vol. III, et Oudemans Contr. Flor. Myc. Now. Sem. p. 5, tab. III, fig. 7. — Peritheciis sparsis, subcaulis epidermide nidulantibus, demum liberis, minutis, depressoglobosis, vertice umbonatis, pallidioribus, nigris; sporulis angustissime fusiformibus, curvatis, continuis, hyalinis, 22 \approx 2.

Hab. in caulibus exsiccatis Drabæ in insula Nowaja Semlja.

- * 52. **Rhabdospora Euphorbiæ** Brunaud Liste Sphærops. pag. 52. — 4544
Peritheciis sparsis vel gregariis, cortice nidulantibus, tectis, minutis, globulosis, ostiolo obtuso, erumpente; sporulis allantoideis, continuis, subinde (raro) utrinque guttulatis, rectis vel parum curvatis, hyalinis, 12-18 \approx 2.

Hab. in caulibus emortuis Euphorbiæ palustris, Saintes Gallie.

- * 54. **Rhabdospora Betonicæ** Sacc. et Br. in Rev. Myc. 1885. — 4545
Peritheciis sparsis, plus v. minus approximatis, subepidermicis, ostiolo prominente, $\frac{1}{7}$ - $\frac{1}{6}$ mm. diam.; sporulis cylindraco-filiformibus, obtusiusculis, rectis, raro flexuosis, hyalinis, simplicibus vel obscure guttulatis, 20-24 \approx 1-1,5.

Hab. in caulibus siccis Betonicæ officinalis prope Troyes Gallie.

69. **Rhabdospora verbenicola** Sacc. Syll. III, pag. 590. *Var. major* 3268
Brunaud Liste Sphæropsid. pag. 52. — Sporulis 40-50 \approx 1,5. In caulibus emortuis Verbene officinalis, Saintes Gallie.

- * 77. **Rhabdospora subgrisea** Peck in 38 Rep. St. Mus. pag. 98. — 4546
Peritheciis numerosis, punctiformibus, depressis, nigris, epidermide tectis, sæpe in maculis longis, indefinitis, griseo-brunneis; sporulis filiformibus, rectis vel curvulis, 30-62 μ . longis.

Hab. in caulibus emortuis variarum Solidaginum, Albany Amer. bor. (CLINTON).

- * 78. **Rhabdospora dipsacea** Sacc. Bomm. et Rouss. in Bull. Soc. R. 4547
Belg. 1886, p. 183. — Peritheciis punctiformibus, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., epidermide tectis, mammillatis, nigris, ostiolo brevi, recte epidermidem perforante donatis, laxe gregariis; sporulis hyalinis, cylin-

draccis, curvatis, pluriguttulatis, centro portiuncula evacuata, pseudosepto simili, præditis, 30-32 \approx 3-4.

Hab. in caulibus emortuis *Dipsaci silvestris*, Yvoir Belgii.

- * 79. **Rhabdospora Lactuæ** Brun. Liste Sphærops. pag. 52. — Peritheciis primo tectis dein erumpentibus, globulosis, nigris, minutis; sporulis linearibus, rectis vel vix curvulis, continuis, 17-23 \approx 1-2, hyalinis.

Hab. in caulibus emortuis *Lactuæ virosæ*, Saintes Gallie.

- * 83. **Rhabdospora Chlorogali** Cooke et Hark. in *Grevillea* XIII, p. 111. — Caulicola, gregaria; peritheciis atris, punctiformibus, subdepressis, cuticulâ hyalinâ tectis, demum erumpentibus, seminudis; sporulis bacillaribus, utrinque obtusis, rectis flexuosisve, hyalinis, obscure nucleatis, 30 \approx 3.

Hab. in caulibus *Chlorogali* in California (HARKNESS).

- * 86. **Rhabdospora uncinata** Pass. in litt. Martelli in *Flor. bog* p. 149. — Peritheciis sparsis, sphæroideis, atris, subtectis, dein nudatis; sporulis tenuissimis, filiformibus, continuis, hami ad instar curvatis, basidiis longiusculis fultis.

Hab. in..... Keren Abyssiniæ.

COLLONEMA Grove in *Journ. of Bot.* 1886, p. 136, tab. 266, fig. 5. (Etym. a *colla* gluten et *nema* filum, ob sporulas arcte conglutinatatas). — Perithecia subglobosa, subcarbonacea, superficialia; sporulae longæ, cylindricæ vel fusoideæ, continuæ, hyaline. Est *Aposphæria scolecospora*.

1. **Collonema hemisphæricum** (A. S.) Grove in litt. *Aposphæria? hemisphæria*. Sacc. Syll. III, p. 170.
2. **Collonema schizothecioides** (Pr.) Grove in litt. *Aposphæria? schizothecioides*. Sacc. Syll. III, p. 177.
3. **Collonema papillatum** Grove in *Journ. of Bot.* 1886, pag. 136. — Peritheciis minutis, gregariis, atris, globosis vel subovatis, basi ligno inculptis, dein liberis, sursum in papillam conicam, pulchram, poro exiguo pertusam, attenuatis, rugosis, 0,8-0,13 mm. diam.; nucleo albo, arctissime conglutinato; cirro longissimo, tenuissimo, filiformi; sporulis fusoideis, utrinque longe attenuatis, acutissimis, curvulis, eguttulatis, hyalinis, 18-19 \approx 21½.

Hab. in corticis *Aceris Pseudoplatani* pagina interiori, Sutton Coldfield, prope Birmingham Britannicæ, socio *Graphio penicillioide*. — Sporulae aquâ diu suffusâ, difficillime tamen, solvuntur.

GELATINOSPORIUM Peck. — Sacc. Syll. III, pag. 596.

*1. **Gelatinosporium fulvum** Peck in 38 Rep. St. Mus. pag. 97. — 452

Peritheciis cæspitosis, stipatis, erumpentibus, externe pulverulentis, pallide brunneis, madore apice dehiscentibus et tum massam sporularum albam ostendentibus; sporulis elongatis, curvis, utrinque attenuatis, 75 μ . longis, hyalinis.

Hab. in foliis emortuis *Betulae luteae*, Caroga Amer bor.

SPHÆROGRAPHIUM Sacc. Syll. III, p. 597.

*1. **Sphærographium Lantanoidis** Peck in 38 Rep. St. Mus. pag. 96. 453

— Peritheciis minutis, teretibus vel subconoideis, apice truncatis, atris; sporulis subfiliformibus, curvulis vel flexuosis, utrinque leniter acutis, sæpe multinucleatis, 40-62 μ . longis, hyalinis, in globulum album eructatis.

Hab. in caulibus emortuis *Viburni lantanoidis* in montibus Adirondack Amer. bor.

MICROPERA Lév. — Sacc. Syll. III, p. 604.

*2. **Micropera Mali** Pass. in Erb. Critt. Ital. Ser. II, n. 1488. — 454

Peritheciis ut *Micropera Drupaccarum* sed nigris, apice cæsio-pruinosis; sporulis etiam similibus sed brevioribus, 18-32 \approx 1,5.

Hab. in ramis emortuis *Pyri Mali* prope Parma Ital. bor.

GAMOSPORA Sacc. Misc. Myc. II, p. 9. (Ety. a *gamos* connubium et *spora*). — Perithecia subsurfacealia, globulosa, minuta, subastoma, membranacea, setis divergentibus, atris vestita. Sporulae bacillares, pluriseptatae, hyalinae, in sterigmatis communis apice subternæ et cum eo persistentes; basidia bacillaria, brevia, apice sterigmata subterna gerentia. — In grege *Sphæroidearum scolecosporarum* sectionem propriam sistit.

1. **Gamospora eriosporoides** Sacc. et Berl. Misc. Myc. II, pag. 9 et 455

Rev. Myc. 1885. — Peritheciis epiphyllis, mycelio tenuissime maculoso, fusco interspersis, punctiformibus, globoso-depressis, setulis cuspidatis, septatis, rectis, 140-150 \approx 4-5, atro-fuliginis parce vestitis; contextu perithecii minute celluloso, dilute fuligineo, prope basim subprosenchymatico, sporulis bacillaribus, rectis, utrinque obtusiusculis, 50-60 \approx 7, 3-4-septatis, in apice sterigmatis subternis et eo persistenter hærentibus; sterigmatibus subternis in basidio communi et ab eo mox secedentibus; sterigmatibus basidiisque sporulae tertiam partem æquantibus.

Hab. in foliis coriaceis languidis, Logan Australiae. — Sporuke basi, *Eriosporæ* fere ad instar, diu connexæ, tandem vero interdum secedunt.

APPENDICULARIA Peck in 38 Rep. St. Mus. p. 95, tab. 3, fig. 1-4. (Etym. ab *appendicula*, ob perithecia basi appendiculigera). — Perithecia delicata, rostrata, pedunculata, basi appendicula prædita. Sporulæ fusoidæ, 1-septatæ, hyalinae. Genus forte *Labulbeniaceis* propinquum.

1. **Appendicularia entomophila** Peck in 38 Rep. St. Mus. p. 96, tab. 3, fig. 1-4. — Peritheciis ovalibus, brunneis, 110-135 \approx 85-100, abrupte conicis, sursum in rostrum longum, pallidum, quandoque acutum, rectum vel curvatum desinentibus, 200-235 \approx 20-23; pedunculo biseptato, sursum leniter incrassato, 30-34 \approx 3-3,5, uno latere et ad basim perithecii appendiculam oblongam, 40 μ . long. gerentibus; sporulis acute fusiformibus, utrinque acutis, medio septatis, 30-45 \approx 3-4, hyalinis, per apicem rostri exeuntibus.

Hab. in *Drosophila nigricorni*, Nyack Rockland Americae borealis.

Fam. 2. Nectrioideæ.

Sect. 1. Hyalosporæ Sacc.

ZYTHIA Fr. — Sacc. Syll. III, pag. 614.

- *1. **Zythia Pinastri** Karst in Rev. Myc. 1885, pag. 106. — Peritheciis erumpentibus, subcaespitosis vel sparsis, conoideis vel rotundatis, siccis difformibus, inæqualibus, subinde ostiolo papillato præditis, aurantiacis, glabris, 0,2-0,3 mm. diam.; sporulis elongatis vel fusoidæ-oblongatis, eguttulatis, hyalinis, 2-3,5 \approx 0,5-0,6, madore in cirros aureos expulsis; basidiis filiformibus, circiter 15 \approx 1-1,5.

Hab. ad folia Pini silvestris dejecta in regione Aboensi Fenniae.

- *5. **Zythia Galii** Oud. Contr. Flor. Myc. Pays-Bas XI, pag. 34. — Peritheciis hypophillis, $\frac{1}{10}$ mill. latis, depresso globosis, diu subepidermide latentibus, membranaceis, tenuissimis, coloris fulvis maxime diluti, denique ostiolo simplici apertis; sporulis numerosissimis, continuis, hyalinis, 8-10 \approx 2.

Hab. in foliis Galii Molluginis, Putten Hollandiae. — Quo latent perithecia, folia facile pellucide punctata crederes.

Sect. 2. *Didymosporæ* Sacc.

PSEUDODIPLODIA Karst. — Sacc. Syll. III, p. 621.

* 1. **Pseudodiplodia corticis** Grove in Journ. of Bot. 1886, p. 197. — 4559

Late effusa; peritheciis gregariis vel in lineas breves aut maculas contractis, 1-1,4 mm. diam., globulosis vel oblongis, levibus, nitidis, contextu ceraceo mollissimo, olivaceo, minute celluloso, emergentibus, denique semi-superficialibus, siccis atro-fuscis, poro pertusis exiguo qui celeriter dilatatur, subinde phacidiiformiter vel hysteriiformiter laceratis, mox parte superiore prorsus evanidis; nucleo olivaceo, senio (disco) subnigro; sporulis oblongis, subfusiformibus, utrinque obtusis vel basi vel apice acutatis, rarius curvulis, diu continuis, dein senioribus tenuiter uniseptatis, vix constrictis, vix guttulatis, singulis hyalinis, coacervatis dilute olivaceis, 10-14 \approx 3-4; basidiis subramosis, fasciculatis, duplo-triplo longioribus suffultis.

Hab. in pagina interiori corticis vel etiam in ligno *Aceris Pseudoplatani*, Sutton Coldfield, prope Birmingham Britanniae. — A *P. ligniaria* Karst. differt loco natali, sporulis angustioribus, sed imprimis peritheciorum magnitudine, quæ 5-7-pla majora. An his notis satis distincta? Num vere e Nectrioideis sit, in dubio habendum.

RHYNCHOMYCES Sacc. et March. Champ. Copr. p. 28 (Etym. *rhynchos* rostrum et *myces* fungus). — Perithecia subglobosa, in rostrum subulatum abeuntia, molliuscula, læte colorata (ochraceo-rubentia). Sporula fusioideo-bacillares, acutæ, 1-septatæ, hyalinæ, deorsum in setulam (basidium?) cuspidatam sensim attenuatæ. — Est *Sphaeronæmella* scolecospora.

* 1. **Rhynchomyces Marchalii** Sacc. in March. Champ. Copr. pag. 28. 4560

— Peritheciis gregariis vel subaggregatis, superficialibus, ovoideo-subglobosis, extus hyalino-papillosis, flavicantibus, contextu laxo celluloso, 145-160 \approx 110-125, ostiolo subulato-rostrato, 255-265 \approx 35-45, stricto, glabro, ochraceo, contextu e cellulis vermicularibus, subparallelis conflato; sporulis ad apicem rostri demum expulsis et globulum albidum, ellipsoideum formantibus, fusioideo-bacillaribus, rectis vel leniter curvis, apice acutis, deorsum sensim stipitato-setigeris, 65-70 \approx 5,4-5,6, 1-septatis, non constrictis, hyalinis, sæpius strato mucoso, diaphano involutis.

Hab. in fimo vulpino in Arduennis. — Septulum adest ob-

soletum in limite inferiore sporulæ versus stipitem seu setulam.
— *Eleutheromyces longisporum* in mentem revocat, sed asci vere nulli.

Fam. 3. Leptostromaceæ Sacc.

Sect. 1. Hyalosporæ Sacc.

LEPTOTHYRIUM Kunze et Schm. — Sacc. Syll. III, p. 626.

- * 11. **Leptothyrium medium** Cooke in Grevillea XIII, p. 98. — Hy- 4561
pophyllum; peritheciis sparsis, amplis, $\frac{1}{2}$ mm. diam., depressis,
circularibus, atro-brunneis; sporulis angustis, utrinque attenuatis.
12-14 \approx 2.

Hab. in foliis emortuis *Quercus*, Gomshall Britannicæ. — *Var.*
castanicola Cooke: l. c. peritheciis duplo minoribus sed fructifica-
tione eadem. In foliis *Castaneæ*, Darenth Britannicæ.

- * 22. **Leptothyrium Liriodendri** Cooke in Grevillea XIV, pag. 90. — 4562
Peritheciis in macula exarida, fusca, sparsis, epiphyllis, discifor-
mibus, nitidis, plano-convexis, atris, minutis; sporulis cylindræcis,
curvulis rectisque, tenuibus, hyalinis, 5 \approx 1.

Hab. in foliis *Liriodendri*, Aiken S. Car. Americæ borealis
(RAVENEL).

- * 23. **Leptothyrium Buxi** Pass. in litt. Brun. Liste Sphærops. p. 61. 4563
— Maculis albis vel albidis, semi orbicularibus, marginalibus, utra-
que pagina conspicuis, linea nigra limitatis; peritheciis sparsis,
hypophyllis, punctiformibus, nigris, circularibus, applanatis, pri-
mo tectis; sporulis globulosis, hyalinis, 2,5-4 μ . diam.

Hab. in foliis *Buxi* sempervirentis, Saintes Gallicæ.

- * 40. **Leptothyrium microsporum** Sacc. in Rev. Myc. 1886, p. 22. — 4564
Peritheciis epiphyllis, sparsis, applanatis, circulari-subangulosis.
 $\frac{1}{2}$ mm. diam., radiato-contextis, centro pertusis; sporulis allantoi-
deis, perexiguis, 3-4 \approx 1-1,3.

Hab. in foliis languidis *Solani*, Guarapi Bras.

- * 52. **Leptothyrium Panacis** Cooke in Grevillea XIV, p. 129. — 4565
Peritheciis gregariis vel sparsis, punctiformibus, scutiformibus, mem-
branaceis, orbicularibus, atro-fuscis; sporulis minutis, cylindræcis,
rectis vel leniter curvulis, hyalinis, 7 \approx 2.

Hab. in pag. super. foliorum emortuorum *Panacis* arborei
New Zeland.

- * 53. **Leptothyrium Angelæ** Sacc. in Rev. Myc. 1884, tab. LV, fig. 5 4566
bis. — Peritheciis superficialibus, gregariis, planis, subcircularibus

radiato-contextis margine fimbriatis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam.; sporulis fusoidis, minutis, utrinque acutiuseculis, 7-8 \approx 1, hyalinis.

Hab. in culmo *Bambusæ mitis* cult. in Gallia (ANGÉLE ROUMÉRIÈRE).

* 54. **Leptothyrium juncinum** Cooke et Harkn. in *Grevillea* XIII, p. 113. 4567

— Gregarium; peritheciis scutiformibus atris, opacis, planis demum concavis, orbicularibus; sporulis cylindraceis, obtusis, continuis, hyalino-olivaceis, basidiis brevissimis suffultis.

Hab. in *Juncis* in California (HARKNESS).

* 55. **Leptothyrium Pseudoplatani** Pass. in litt. Brun. Liste Sphærops. 4568

p. 54. *Melasmia Perisporium* Pass. Fung. Gall. nov. in Journ. d'Hist. nat. 1885, n. 4, p. 55. — Maculis nullis; peritheciis epiphyllis, subhemisphæricis, apice dein paululum depressis, atris, subsuperficialibus, nunquam confluentibus; sporulis botuliformibus, rectis vel curvulis, 8-12 \approx $1\frac{1}{2}$ -2, hyalinis.

Hab. in foliis emortuis *Aceris Pseudoplatani* prope Saintes in Gallia (BRUNAUD).

MELASMIA Lév. — Sacc. Syll. III, p. 637.

* 7. **Melasmia Empetri** Magn. in Bericht. Deut. bot. Gesell. 1886, p. 4569

104. — Pustulis atris, subcutaneis, bullato-prominulis e peritheciis paucis, confluentibus formatis, supra inæqualiter rimosis; sporulis oblongo-cylindraceis, utrinque rotundatis, medio leniter coarctatis, 12-17 \approx 3,5-4,8, intus granulosis, hyalinis; basidiis bacillaribus, simplicibus, sporula subquadraplo longioribus, fasciculatis.

Hab. in ramulis vivis junioribus *Empetri nigri* in insula Wollin Borussiae.

LEPTOSTROMA Fr. — Sacc. Syll. II, p. 639.

* 1. **Leptostroma Sequoiæ** Cooke et Harkn. in *Grevillea* XIII, p. 113. 4570

— Gregarium, superficiale, innatum, hysteriiforme, atro-fuscum, nitidum, siccitate centro collapsum; sporulis sublanceolatis, curvatis, continuis, hyalinis, 16 \approx 3.

Hab. in ramulis *Sequoiæ* in California (HARKNESS).

* 2. **Leptostroma Punicæ** Pass. in Journ. d'Hist. Bord. p. 136. Brunaud Liste Sphærops. pag. 85. — 4571

Peritheciis lineari-oblongis, nigris, gregariis, primo tectis dein epidermide secessa liberis; sporulis fusoidis, 5-7 \approx 1,5, hyalinis; basidiis filiformibus, plus minus longis.

Hab. in ramulis emortuis *Punicæ Granati*. Saintes Galliae.

LABRELLA Fr. — Sacc. Syll. III, p. 647.

- *3. **Labrella arctica** Fuckel in Heglin Reis. Nordpolarmeer vol. III. 457
et Oud. Contr. Myc. Nov. Seml. p. 5. — Peritheciis discoideis, punctiformibus, minutis, nigris, orbicularibus seu oblongis, planis; sporulis cylindræis, continuis, rectis, utrinque obtusis, hyalinis, 12-14 \approx 4.

Hab. in foliis siccis *Potentillæ Fragariastris* in insula Nowaja Semlja.

SACIDIUM Nees. — Sacc. Syll. III, p. 649.

- *1. **Sacidium Polygonati** Ellis New North Am. Fungi, in Am. Nat. 457
1884, pag. 1264. — Peritheciis sparsis, globosis vel ellipsoideis, 200-230 μ . diam., astomis, contextu subradiato, compacto, celluloso; sporulis subglobosis vel pressione subangularibus, 5-7 μ . diam.

Hab. in caule putri *Polygonati gigantei* in Amer. bor.

Sect. 2. Phragmosporæ Sacc.

LEPTOTHYRELLA Sacc. in Rev. Myc. 1885 (Etym. a *Leptothyrio* cui affinis). — Perithecia *Leptothyrii*, dimidiata, radiato-contexta. Sporulæ fusoideæ vel oblongæ, 1-septatæ, hyalinæ.

- *1. **Leptothyrella Mougeotiana** Sacc. et Roum. in Rev. Myc. 1885, 457
tab. LV, fig. 5. — Peritheciis scutatis, superficialibus, $\frac{1}{4}$ mm. d., ambitu circularibus fimbriatulis, centro dein irregulariter pertusis, atris; sporulis fusoideis, sæpe inaequalateralibus, 1-septatis, non constrictis, 22-28 \approx 4, hyalinis; basidiis fasciculatis, fureatis, hyalinis, 20-25 \approx 3.

Hab. in foliis subvivi *Pini* in Pyrenæis et in Vogesis. — Ut videtur commixtæ sporulæ allantoideæ, 5-6 \approx 1, hyalinæ.

Fam. 4. Excipulaceæ Sacc.

Sect. 1. Hyalosporæ Sacc.

EXCIPULA Fr. — Sacc. Syll. III, p. 665.

- *5. **Excipula primulicola** Pat. in Rev. Myc. 1886, pag. 84. — Peritheciis superficialibus, sparsis vel confluentibus, 1 mm. diam., nigris, convexis, ostiolo papillato, siccitate collapsis, nucleo albo fartctis; sporulis filiformibus, 72-75 \approx 2; basidiis brevibus.

Hab. in caulibus emortuis *Primulae Delawayi*, Yunnan Tsangchan Sinarum (AB. DELAWAY).

DISCULA — Sacc. Syll. III, pag. 674.

* 5. **Discula quercicola** Oud. Contr. Fl. Myc. Pays-Bas. XI, p. 34. 4576

— Peritheciis sparsis, incompletis sub epidermide nidulantibus. hac rupta vero prominentibus; sporulis perithecia replentibus in massa visis disculum nigrum simulantibus elongato-ellipticis, continuis, hyalinis, $9-12 \approx 3\frac{1}{2}$.

Hab. in ramis *Quercus rubrae*, Naaldwijk Hollandiae. — *D. quercinae* proxima sed sporulis minoribus distincta.

AMEROSPORIUM Speg. — Sacc. Syll. III, p. 680.

* 1. **Amerosporium Geranii** Cooke et Harkn. in *Grevillea* XIII, p. 112. 4577

Gregarium, erumpens, demum subliberatum; peritheciis e globosis cupulatis, pilis nigricantibus, tenuibus, dense vestitis; sporulis curvulis, utrinque attenuatis, continuis, hyalinis, $20 \approx 3-5$.

Hab. in caule *Geranii* in California (HARKNESS).

PROTOSTEGIA Cooke. — Sacc. Syll. III, p. 690.

* 1. **Protostegia autumnalis** Sacc. in *Rev. Myc.* 1886, pag. 6. — Pe- 4578

ritheciis disciformibus, ascematibus *Pseudopeziza autumnalis* simillimis, atris, erumpentibus; sporulis bacillaribus, $20-22 \approx 1$, retiusculis, hyalinis.

Hab. in caulibus *Galiorum*, sociâ *Pseudopezizâ autumnali* cuius est spermogonium, in Gallia (ANGÉLE ROUMEGUÉRE).

EPHELIS Fr. — Sacc. Syll. III, p. 691.

* 1. **Ephelis borealis** Ellis et Ev. in *Journ. of Myc.* 1885. — Stro- 4579

mate griseo, extenso, folium ambiente, circiter $\frac{1}{2}$ cm. lato, ei *Epichlœ typhinae* simili; peritheciis paucis, 2-5 in quoque stromate, innatis, leniter convexis, primo parte superiore stromatis tectis, demum expositis, margine imperfecto. *Pezizam* simulantibus; sporulis acicularibus, sæpe rectis vel subinde medio curvatis, hyalinis vel pallide luteolis, nucleolatis (?), utrinque obtusis, $15-25 \approx \frac{3}{4}$.

Hab. in foliis vivis *Graminum*, Nova Scotia Amer. bor. — An ab *Eph. mexicana* distinguenda?

Genus dubium.

PLEOSPOROPSIS (Erst. — Sacc, Syll. III. p. 693.

- * 1. **Pleosporopsis Heteromeles** Cooke et Hark. in Grevillea XIII. p. 4580
111. — Hypophylla; peritheciis gregariis, aurantio-fulvis, globo-
so-depressis, $\frac{1}{2}$ mm. glabris, pulpa pulverulenta flavida; sporulis
globosis, subpellucidis, 8 μ . diam.

Hab. in foliis emortuis *Heteromeles* in California (HARK-
NESS).

MELANCONIÆ Berk.

Sect. 1. Hyalosporæ Sacc.

GLÆOSPORIUM Desm. et Mont. — Sacc. Syll. III, p. 699.

- * 10. **Glæosporium Vanillæ** Cooke in Grevillea XV, pag. 18. — Epi- 4581
 vel hypophyllum, acervulis gregariis, minutis, punctiformibus, epi-
 dermide nigrefacta tectis; conidiis elongato-ellipsoideis, utrinque
 rotundatis rectis, intus granulosis, 18-25 \approx 5-6.

Hab. in foliis emortuis Vanillæ, Antioquia Columbiae (C. PATIN).

- * 25. **Glæosporium Helichrysi** Wint. in Hedw. 1885. — Acervulis 4582
 amphigenis, subcutaneis, demum rimose erumpentibus, applanatis,
 maculas minutas, rotundato-angulatas, atrae, nitidas, area indeter-
 minata, lutea, sublata circumdatas, sæpe confluentes, $1\frac{1}{4}$ - $3\frac{1}{4}$ mm.
 latas formantibus; conidiis breve cylindricis, utrinque rotundatis,
 continuis, hyalinis, 14-20 \approx 4-5; basidiis brevibus, subcylindricis,
 hyalinis suffultis.

Hab. ad folia subviva Helichrysi (petiolati?), Somerset-
 East, Prom. Bon. Spei (MAC-OWAN).

- * 26. **Glæosporium Toxicodendri** Ell. et Mart. in Journ. of Myc. 1885, 4583
 p. 116. — Maculis amphigenis, albescentibus, parvis, 2 mm. diam.,
 margine lato, obscuro cinctis; acervulis sparsis, paucis, obscure
 coloratis; conidiis oblongis, 1-septatis, 12-15 \approx 5-6.

Hab. in foliis vivis Rhois Toxicodendri, Charles City, Jona
 Amer. bor. (PROF. J. C. ARTHUR). — «Potius *Marsonia*».

- * 30. **Glæosporium Morianum** Sacc. in Mori Enum. dei Funghi di Mode- 4584
 na Giorn. Bot. Ital. 1886, n. 1, p. 23. — Acervulis gregariis, epiphyllis,
 rarius hypophyllis, punctiformibus, fusciscentibus, 100-120 μ .
 diam., diu epidermide velatis, centro translucetibus; conidiis ob-
 longo-cylindræis, utrinque rotundatis, rectiusculis, 6-7 \approx 1,5, hya-
 linis; basidiis fasciculatis, filiformibus, subflexuosis, 10-14 \approx 1-5,
 subhyalinis.

Hab. in foliis languidis Medicaginis sativæ, maculas
 ochraceas efformans in Italia bor. (MORI).

- * 35. **Glæosporium Berberidis** Cooke in Grevillea XIII, pag. 98. — 4585
 Hypophyllum; acervulis gregariis, numerosis, convexis, maculis

latis, decoloratis, subinde totum folium occupantibus, insidentibus, pallidis; maculis brunneis, margine rufulo cinctis; conidiis ovoideis, hyalinis, $5 \approx 3$.

Hab. in foliis putrescentibus Berberidis asiaticæ, Kew Britannia.

- * 11. **Glæosporium fraxineum** Peck in Thirty-fifth Rep. St. Mus. Bot. 4586
1884, p. 137. — Maculis numerosis, parvis, pallide rubris, obscure vel purpureo marginatis, centro albicantibus; acervulis raris; conidiis oblongo-ellipsoideis, $5-6 \approx 4$, sæpe binucleatis, hyalinis.

Hab. in foliis vivis Fraxini pubescentis, Albany Americæ borealis.

- * 61. **Glæosporium stenosporum** Ellis et Kellerm. in Journ. of Myc. 4587
1886, p. 4. — Maculis amphigenis, sordide griseis, rotundis, $\frac{1}{2}$ cm. diam. sæpe confluentibus, margine nigro, elevato cinctis; acervulis punctiformibus, rotundis, fuscis, demum collabascentibus, epiphyllis sed etiam in pagina inferiore foliorum conspicuis, vulgò in centro macularum congestis; conidiis cylindræis, uniseptatis, hyalinis, $18-20 \approx 2\frac{1}{2}$, curvulis.

Hab. in foliis vivis Populi moniliferæ, Manhattan, Kansas Amer. bor.

- * 70. **Glæosporium fagicolum** Pass. in litt. Bruu. in Rev. Myc. 1886, 4588
pag. 206. — Maculis irregularibus, brunneis vel brunneolis, demum siccitate centro albo-cinereis, margine brunneo cinctis; conidiis oblongo-ovoideis, hyalinis, $12,5 \approx 4$.

Hab. in foliis languescentibus Fagi sylvaticæ, Saintes Galliæ. — Conidiis minoribus a *G. Fagi* distinctum.

- * 72. **Glæosporium septorioides** Sacc. Misc. Myc. II, p. 16. tab. XI, 4589
f. 34^b, *Marsonia quercina* Wint. Hedw. 1884, p. 171. — Maculis albidis, subtus ochraceis, atro-cinctis; conidiis bacillari-fusoideis, curvatis, utrinque obtusiusculis, $20 \approx 1,7-2$, hyalinis, semper continuis, etiam addita ope jodii et kalii.

Hab. in foliis Quercus imbricatæ, Missouri Amer. bor. 4590
(C. H. DEMETRIO ex WINTER).

- * 76. **Glæosporium Epilobii** Pass. Fuug. Gall. nov. in Jour. d'Hist. nat. Bord. 1885, n. 4, p. 55. — Maculis brunneis, versiformibus; acervulis minutis, subcutaneis; sporulis phomatoideis, biguttulatis. $5 \approx 1\frac{1}{2}$, hyalinis.

Hab. in foliis Epilobii angustifolii in hortis culti prope 4591
Saintes in Gallia (BRUNAUD).

- * 92. **Glæosporium carpogenum** Cooke et Hark. in Grevillea XIII, p. 113.

— Acervulis innato-erumpentibus, pallidis, ore lacerato; conidiis subellipticis vel clavatis, utrinque rotundatis, hyalinis, $18 \approx 6,7$.

Hab. in capsulis *Gossypii arboræ* in California (HARKNESS).

- *97. **Glæosporium crassipes** Speg. Amp. Ital. p. 405, Sacc. Fungi 4592
It. 1029. — Maculis magnis, subcircularibus, sæpe totam superficiem baccarum occupantibus et ob epidermidem atque strata cellularum corticalium arescentia colore griseo-fuligineo, margine subatro; acervulis subepidermicis, primo appianatis dein subconicis atque vertice epidermidem perforantibus, plus v. minus dense gregariis, $150-250 \mu$.; conidiis proteiformibus ellipticis vel subnavicularibus, quandoque continuis, hyalinis, non vel uniguttulatis, subinde protoplasmate bipartito spurie uniseptatis visis, $20-30 \approx 7-8$, acrogenis in basidiis crassissimis, continuis, rarius 1-2-septulatis, granulosis, strato pulvinate prolifero insidentibus, $40-50 \approx 5-6,5$, hyalinis.

Hab. ad baccas *Vitis viniferae* varietatis *Schiava* in locis humidulis circa Conegliano Ital. bor.

- *112. **Glæosporium Denisoni** Sacc. et Berl. Misc. Myc. II, p. 10. — 4593
Acervulis gregariis, minute pustulatis, epidermide demum vix perforata tectis, intus lutescentibus; conidiis oblongo-cylindræcis, utrinque obtusiusculis, leniter curvis, $6-8 \approx 1-5$, interdum 2-guttulatis, hyalinis; basidiis bacillaribus, simplicibus, $20-24 \approx 1-5$, e basi stromatica, minute cellulosa, fuligineo-ochracea oriundis.

Hab. in epicarpio *Encephalarti* (Macrozamiæ) *Denisoni* in Queenslandia (F. MÜLLER).

- *114. **Glæosporium Glottidii** Ellis et Mart. in Journ. of Myc. 1885. 4594
p. 114. — Maculis margine purpurascenti obscure limitatis; acervulis sparsis, numerosis, siccitate atris, suborbicularibus, 250μ . d.; conidiis forma variis, ovoideis, oblongis et cylindræcis, 1-3-nucleatis, longioribus subinde curvulis, $9-16 \approx 3$; basidiis brevibus, gracilibus, conidiorum breviorum longitudinem æquantibus.

Hab. in fructibus *Glottidii floridani*, Florida Amer. bor. (PROF. F. L. SCRIBNER).

MYXOSPORIUM Link. — Sacc. Syll. III, p. 722.

- *4. **Myxosporium microsporum** Cooke et Hark. in Grevillea XIII, p. 4594
113. — Acervulis laxè gregariis, subcutaneo-erumpentibus, transverse-oblongis, vix 1 mm.; conidiis ovoideis, rectis, hyalinis, $4 \approx 3$.

Hab. in ramis *Piri* in California (HARKNESS).

- * 11. **Myxosporium sanguineum** Fuck. Symb. p. 230. — Acervulis pustulatis, 2 mm. latis, 1 mm. crassis, hemisphaericis, sub epidermidem demum fissa nidulantibus, sanguineis; conidiis in basidiorum ramosorum apicibus, oblongis, vix curvatis, utrinque obtusis, 20 = 8, simplicibus, hyalinis.

Hab. in ramis emortuis Ulmi campestris prope Hattenhein in Rhenogovia. — «An huc ducendum *M. Ulmi* Oud.?».

- * 31. **Myxosporium pubescens** (Sacc.) Riess *Achroomyces pubescens* Riess in Bot. Zeit. 1853, pag. 136, tab. III, fig. 21-23. — Subrotundum, pulvinatum, pallidum, fibris (basidiis?) continuis, in fungo exsoleto pubescenti-prominulis; conidiis obtusis, rectis, vel parum curvatis, nucleolis plerumque faretis.

Hab. in ramulis emortuis Tiliæ in Germania. — «Verisimiliter a genere *Myxosporio* removendum. An genus *Achroomyces* reficiendum?».

TRULLULA Sacc. Syll. III, p. 731.

- * 10. **Trullula Junci** Cooke et Hark. in Grevillea. — Acervulis orbicularibus, convexis atris, minutis, erumpentibus; conidiis cylindraceis vel subfusiformibus, nucleatis, continuis hyalinis, e basidiis brevissimis radiantibus, 20-25 = 4.

Hab. in culmis Junci in California (HARKNESS).

- * 11. **Trullula dothideoides** Sacc. et Berl. Misc. Myc. II, pag. 134, tab. IX, f. 33. — Acervulis perithecioides, subsparsis, convexis, erumpentibus, atris, compactis, $\frac{3}{4}$ mm. diam.; basidiis dense fasciculatis, furcato-ramosis, praelongis, hyalinis in conidia cylindrica utrinque truncata, hyalina, 10-12 = 4 dilabentibus.

Hab. in cortice Ulmi campestris, dejecto prope Teolo Euganeorum Ital. bor.

COLLETOTRICHUM Corda. — Sacc. Syll. III, p. 735.

- * 5. **Colletotrichum Brassicæ** Schulz. et Sacc. in Rev. Myc. 1884. Schulz. Ill. fung. Slav. n. 187. — Gregarium v. caespitosum, minutum, atrum: acervulis pulvinatis, subsuperficialibus, setulis filiformibus, rigidulis, subcontinuis, fuliginis cinctis; conidiis fusoides, curvulis, 19-24 μ . longis, hyalinis; basidiis bacillaribus, fasciculatis, conidium æquantibus.

Hab. in caule putrescente Brassicæ oleracæ v. caulocarpæ, prope Vinkovec Slavoniæ.

Sect. 2. Scoleco-allantosporæ Sacc.

CYLINDROSPORIUM Ung. — Sacc. Syll. III, p. 737.

*6. **Cylindrosporium nanum** Cooke in Greville XIV, pag. 130. — 4600

Hypophyllum; maculis angulatis, nervulis limitatis, canescentibus, acervulis minutis, albidis; conidiis cylindraceutis, rectis, hyalinis, demum emergenti-superficialibus, 8-10 \approx 1.

Hab. in foliis vivis Juglandis, New Zealand (KIRK). — Affine *C. microspermo*.

*7. **Cylindrosporium microspilum** Sacc. et Wint. Misc. Myc. II, p. 16, 4601

n. 73. — Maculis epiphyllis, circularibus, perexiguis, albis, tenuiter atro-marginatis; acervulis amphigenis, innatis, punctiformibus, pallidis; conidiis bacillaribus, curvulis, utrinque rotundatis. 50-60 \approx 4, spurie 4-6-septatis, hyalinis.

Hab. in foliis quercinis, Missouri Amer. bor. (DEMETRIO ex WINTER).

*8. **Cylindrosporium Fraxini** (Ell. et Kell.) Ell. et Ev. in Journ. of 4602

Myc. 1885, p. 127, *Cercospora Fraxini* Ellis et Kell. in Journ. of Myc. 1885, p. 2. — Sparsum in pagina inferiore foliorum; maculis brunneis, parvis, nervis limitatis, demum confluentibus, $\frac{1}{2}$ -1 cm. latis, margine irregulari cinctis; basidiis dense coalitis, subhyalinis, brevibus, 16-26 μ . longis, laxis, basi vix inflatis; conidiis cylindraceutis, subhyalinis vel vix luteolis, 3-4-septatis, granulosis nucleatisque, 70-100 \approx 5-6, non vel vix curvulis, utrinque obtusis.

Hab. in foliis Fraxini viridis, Kansas Amer. borealis (KEL- LERMAN).

*9. **Cylindrosporium Rubi** Ell. et Morg. in Journ. of Myc. 1885. — 4603

Maculis amphigenis, brunneo-griseis, sursum definitis, 2-3 cm. d., subinde confluentibus, tomento foliorum absconditis; acervulis epiphyllis, punctiformibus, subcutaneis, demum suberumpentibus, pallidis; conidiis filiformibus, una extremitate acutis, rectiusculis vel vix curvatis, 3-5-sæpe 3-septatis, hyalinis, 40-55 \approx 2,5; basidiis minutis.

Hab. in foliis vivis Rubi strigosi culti in Amer. bor. (Dr. J. BROWN).

*11. **Cylindrosporium circinans** Winter in Journ. of Myc. 1885. — 4604

Acervulis epiphyllis, magnis, plerumque circinatim v. concentrice stipatis, rarius inordinate gregariis, rotundato-angulatis v. irregularibus, sæpe confluentibus, orbes vel maculas, usque 15 mm. latas, fu-

sco vel sordide-griseas formantibus, margine elevato, obscuriori, varie flexuoso circumdatis, applanatis; conidiis cylindrico-fusiformibus, utrinque acutiusculis, parce septatis, hyalinis, sæpe flexuosis, 20-30 \approx 1,5.

Hab. ad folia viva Sanguinariæ canadensis, Perryville Missouri Amer. bor. (C. H. DEMETRIO).

- * 13. **Cylindrosporium Saponariæ** Roum. in Rev. Myc. 1885, p. 27. 4603
— Maculis hypophyllis, magnis, orbicularibus, sæpe confluentibus, æruginosis, griseolis; basidiis rectis, brevibus, hyalinis, 40-45 \approx 3, 1-2-septatis; conidiis cylindræis, simplicibus, hyalinis, 10-40 \approx 3-5.

Hab. in foliis vivis Saponariæ officinalis, Fontainebleau Galliæ. — « An *Glaosporium?* ».

- * 17. **Cylindrosporium Tradescantiæ** Ell. et Kell. in Journ. of Myc. 4606
1886, pag. 81. — Conidiis erumpentibus, in capitulos carneos coalitis, cylindræo-vermiformibus, una extremitate acutioribus, 65-80 \approx 4-5, 4-6-septatis, primo granulosis vel nucleatis; basidiis indistinctis vel obsolete.

Hab. in foliis vivis Tradescantiæ Virginicæ, Manhattan, Kansas Amer. bor. (KELLERMAN).

- * 18. **Cylindrosporium Angustifoliæ** Ell. et Kell. in Journ. of Myc. 4607
1886, pag. 81. — Maculis amphigenis, ovoideis, $\frac{1}{2}$ - $\frac{3}{4}$ \approx $\frac{1}{4}$ cm., brunneis, margine obscuro cinctis; acervulis erumpentibus, olivaceis, primo epidermide tectis; conidiis iis *C. Tradescantiæ* vix distinguendis; basidiis simplicibus, brevibus, 2-3-cellulis concatenatis efformatis.

Hab. in foliis vivis Yuccæ angustifoliæ, Manhattan Kansas Amer. bor. (KELLERMAN).

CRYPTOSPORIUM Kunze. — Sacc. Syll. III, p. 741.

- * 11. **Cryptosporium Hippocastani** Cooke in Grevillea XIII, p. 4. — 4608
Stromate corticali, tecto, dein cortice erumpente, longitudinaliter confluyente, pallido; conidiis oblongo-fusoideis, continuis, enucleatis, obtusiusculis, 18-20 \approx 5; basidiis simplicibus vel furcatis, conidiis duplo longioribus.

Hab. in ramulis Æsculi Hippocastani, Kew Britannicæ. — Affine *C. coronato*.

LIBERTELLA Desm. — Sacc. Syll. III, p. 745.

- * 11. **Libertella Gleditschiæ** Winter in Journ. of Myc. 1885. — Acer- 4609
vulis difformibus, immersis, intus pallidis, linea atra circumdatis;

conidiis in cirros plerumque filiformes, contortos, aurantiacos erumpentibus, filiformi-fusoideis. valde curvatis, tenuissimis, hyalinis, 17-25 \approx 1 μ .

Hab. ad corticem putridum Gleditschiæ Triacanthi, Missouri Amer. bor,

Sect. 3. Phæosporæ Sacc.

MELANCONIUM Link. — Sacc. Syll. III, p. 749.

*4. **Melanconium triangulare** E. et E. in Journ. of Myc. 1886, p. 38. 4610

— Acervulis epidermide tectis, orbicularibus, parvis, stromate corticali, centro in pustulam conicam elevato; conidiis obtuse triangularibus, minutis, 5-6. μ diam., brunneis, in massam atram coalitis; basidiis gracilibus, 15-1.

Hab. in ramulis emortuis Carpini americanæ, West Chester, Pennsylvania Amer. bor.

*39. **Melanconium salicinum** Ell. et Ev. in Journ. of Myc. 1886, p. 4611

103. — Acervulis sparsis, tuberculiformibus, vel sæpe sursum truncatis, circiter 1 mm. diam. crassis, epidermide rupta cinctis; conidiis ovato-ellipsoideis, brunneis, 10-12 \approx 6-7.

Hab. in ramulis emortuis Salicis nigræ in America boreali (LANGLOIS). — Differt a *M. bicolor* matrice atque stromate albo nullo.

*48. **Melanconium gracile** Ell. et Ev. in Journ. of Myc. 1885, p. 41. 4612

— Pustulis prominentibus, seriatim dispositis, in rimis longitudinalibus corticis, stromate minuto, albescente; conidiis oblongo-cylindraceis, pallide brunneis, 15-18 \approx 4-5.

Hab. in ramulis emortuis Caryæ albæ Plainfield Amer. bor. (GEV. F. MESCUTT).

Sect. 4. Didymosporæ Sacc.

MARSONIA Fisch. — Sacc. Syll. III, p. 767.

5. **Marsonia Juglandis** (Lib.) Sacc. Syll. III, p. 768. *Var* **Rhois** Sacc. 4028

in Rev. Myc. 1885. — Conidiis 18-21 \approx 3-4, curvato-subrostratis; acervulis conidiorum membranula anhistâ sed reticulata, brunneola (non cellulosa) velatis.

Hab. in foliis Rhois tiphynæ, Feuilleaobois Galliæ.

*10. **Marsonia Quercus** Peck in 38 Rep. St. Mus. p. 99. — Macu-

lis angularibus vel suborbicularibus, albescentibus vel rufo-griseis, 4613

definitis; acervulis hypophyllis; conidiis oblongis vel subcylindraceis, rectis vel curvulis, medio leniter constrictis, obscure uniseptatis, 12-15 \approx 2,5-4.

Hab. in foliis vivis *Quercus ilicifoliæ*, Karner Amer. bor.

Sect. 5. Phragmosporæ Sacc.

CORYNEUM Nees. — Sacc. Syll. III, p. 774.

*5. **Coryneum cistinum** Cooke in *Grevillea* XIV, p. 5. — *Stromatibus* 461
orbicularibus pulvinatis, convexis, atris cortice interiore insidentibus
subinde gregariis, nunc tectis corticeque nidulantibus, nunc expo-
sitis; conidiis lanceolatis, utrinque obtusis, triseptatis, ad septa non
constrictis, brunneolis, 50-55 \approx 15-18; basidiis hyalinis, circiter co-
nidia longitudine æquantibus, demum evanidis.

Hab. in ramis *Cisti laurifolii*, Kew Britannicæ.

*6. **Coryneum microstictum** B. et Br. Sacc. Syll. III, pag. 775. *Var.* 405
Cydoniæ Brun. Champ. nouv. obs. env. Saintes. p. 7. — Conidiis
17-18 \approx 5,5; basidiis 20-22 \approx 1. — In ramis emortuis *Cydoniæ*
vulgaris, Saintes Galliæ. — *Var. Photiniæ* Br. l. c. Conidiis
15 \approx 5. In ramis emortuis *Photiniæ glabræ*, Saintes Galliæ.

PESTALOZZIA De Not. — Sacc. Syll. III, p. 784.

*2. **Pestalozzia peregrina** Ellis et Mart. in *Journ. of Myc.* 1885. — 461
Acervulis hysteriiformibus, primo epidermide velatis, dein partim
erumpentibus; conidiis oblongo-ellipsoideis vel obovatis, 4-septatis,
utrinque cellula acuta, subconoidea, hyalina, cellulis intermediis
brunneis; setis tribus, hyalinis, 7-10 μ . longis; basidiis circiter lon-
gitudinem conidiorum æquantibus; cellulis coloratis 12-16 \approx 6-7.

Hab. in foliis emortuis *Pruni austriacæ*, Newfield Amer.
bor. — A *P. funerea* conidiis minoribus differt.

*11. **Pestalozzia suffocata** E. et E. in *Journ. of Myc.* 1886, p. 38. 461
— Erumpens, in cirros atros dejecta; conidiis oblongo-fusifor-
mibus, 22-26 \approx 5-6, cellulis tribus mediis brunneis, apicalibus hyali-
nis, in basidium longitudinem conidii æquantem attenuatis, apice
setis tribus radiantibus, 25-30 μ . longis ornatis.

Hab. in foliis vivis *Rosæ* nonnullis diebus sub poculo vitreo
servatis in Amer. bor. (Prof. F. L. SCRIBNER).

*15. **Pestalozzia Sorbi** Pat. in *Rev. Myc.* 1886, pag. 182. — 461
Acervulis parvis, in macula orbiculari, rufa sparsis; sporulis fusiformi-
bus, 4-septatis, loculis extremis hyalinis, mediis brunneis, 1-guttu-

latis, 16 \approx 6, septis vix constrictis, setis duabus divergentibus apice præditis; basidiis brevibus.

Hab. in foliis Sorbi, Yunnan Sinarum (AB. DELAVAY).

- *17. **Pestalozzia Montellica** Sacc. et Vogl. in Vogl. Sul Gen. *Pestalozzia* 4618
 p. 9, t. IX, f. 21. — Acervulis epiphyllis, minutis, nigris, dense gregariis, non fœdantibus, macula nulla vel obsoleta; conidiis fusiformibus, 4-septatis, 20-25 \approx 8, loculis intermediis semi-opacis, extimis hyalinis; aristis 3-4, 20-25 \approx 1, una superiore ex vertice loculi oriunda, ceteris ad basim ejusdem nascentibus, horizontali-deflexis; basidiis hyalinis, 25 \approx 1.

Hab. in foliis Quercus in silva Montello, agri Tarvisini, Ital. bor. (SACCARDO).

- *28. **Pestalozzia affinis** Sacc. et Vogl. in Vogl. Sul Gen. *Pestalozzia* 4619
 p. 10, t. VIII, f. 6. — Acervulis laxè gregariis, minutis dein suberumpentibus, atris, subglobose-oblongis, nigris; conidiis ovoideis, 3-septatis, loculis 2 interioribus fuligineis, extimis hyalinis, 14-20 \approx 6-8; aristis 4-5, filiformibus, divaricato-ramosis, 18-25 μ . longis; basidiis filiformibus, 30-50 \approx 2, rarius usque ad 70 μ . longis.

Hab. in ramis corticatis Vitis et Juglandis pr. Malmèdy Gallie.

- *32. **Pestalozzia abietina** Vogl. Sul Gen. *Pestalozzia* p. 10, t. VIII, 4620
 fig. 3. — Acervulis sparsis, subimmersis, primum tectis demum erumpentibus, aterrimis; conidiis ellipticis, 18-21 \approx 5-7, 3-septatis, ad septa non vel vix constrictis, loculis 2 extimis hyalinis, intermediis fuligineo-atris; aristis 2-3, hyalinis, 14-18 \approx 1; basidiis filiformibus, 18-27 \approx 2.

Hab. in strobilis Abietis excelsæ in silvis Collecchio pr. Parma Ital. bor. (PASSERINI) et prope Massachusetts Americæ borealis.

- *33. **Pestalozzia versicolor** Speg. Sacc. Syll. III, p. 790, *Var.* **Cupania** 4624
 Sacc. et Berl. Misc. Myc. II, p. 11. — A typo aliquid differt basidiis paullo longioribus, nempe 15-16 \approx 2; conidiis 30-32 \approx 10-12, partis coloratæ loculis duo sup. fuligineis, inferiore pallidiori; setis subternis, 30-33 \approx 2.

Hab. in foliis Cupaniæ anacardioidis, Logan Australiae.

- *34. **Pestalozzia funerea** Desm. Sacc. Syll. III, p. 791, *Var.* **algeriensis** 4625
 Sacc. et Berl. in Rev. Myc. 1886. — A typo acervulis albidis, epidermide flavescente cinctis, nec non matrice differt. A *P. Rosæ* vero conidiis 4-septatis, loculis extremis subhyalinis ceterisque fuscis, certe distinguenda.

Hab. in ramulis emortuis Rosæ sempervirentis in Algeria.

- *35. **Pestalozzia fibricola** Grove in Journ. of Bot. 1886, pag. 198. 46
 tab. 266, fig. 7. — Acervulis parvis, atris, gregariis, fibras elevan-
 tibus, quæ demum poro pertusæ; conidiis erumpentibus, elliptico-
 fusiformibus, 4-septatis, 17-18 \approx 5; loculis 3 interioribus olivaceis,
 sæpe guttulatis, medio saturatori, superiori hyalino, conoideo, elon-
 gato, 4-5 μ . alto, setas 1-3 hyalinas, 12-18 μ . longas, patenti-
 recurvas gerente; inferiori hyalino, brevi, triangulari; basidiis bre-
 vissimis, 3-5 μ . longis.

Hab. inter fibras libri Tiliæ ad usum horti cultorum pa-
 rati, Sutton prope Birmingham Brit. — Cum plantis e Germania
 sine dubio importata. Loculo medio conid. saturatori at non opaco
 a *P. longiseta* distincta. Setæ inter se basi breviter connatæ. Setæ
 duæ sæpissime inveniuntur; quum unica, solito est longior. Cum
P. funerea var. *discolori* species comparanda.

- *56. **Pestalozzia primaria** Ell. et Ev. in Journ. of Myc. 1886, p. 103. 462
 — Acervulis hysteriiformibus, atris, erumpenti-superficialibus cir-
 citer $\frac{1}{2}$ mm. longis, sparsis; conidiis oblongo-cylindraceis, luteo-
 brunneis, demum uniseptatis, setis tribus, hyalinis, radiantibus, 6-
 9 μ . longis, sursum attenuatis; basidiis filiformibus, 10-12 μ . longis.

Hab. in Scirpo fluviatili emortuo in Amer. bor. (LANGLOIS).
 — Conidia primo continua sunt.

- *57. **Pestalozzia tubericola** Pass. Funghi racc. in Abissinia, et Mart. 462
 Fl. Bog. p. 148. — Peritheciis minutis, punctiformibus, innatis, spar-
 sis, fusco-atris; conidiis fusiformibus, dilute flavidis, 3-4-septatis,
 setis 3-4 plus minus longis, stellatim patentibus, deciduis coronatis.

Hab. in tubere exsiccato forsitan Orchidææ, Keren Abyssiniæ.

- *65. **Pestalozzia phyllostictea** Sacc. Misc. Myc. II, p. 25, tab. XI, f. 32. 462
 — Maculis arescendo expallentibus, variis; acervulis punctiformi-
 bus, vix erumpentibus; conidiis oblongis, 4-septatis, 20-22 \approx 7-8,
 loculis 3 mediis fuliginis, extimis minutis, hyalinis, arista curvula
 unica, 4-6 μ . longa; stipite filiformi, 15-20 \approx 1,5.

Hab. in foliis Rubi fruticosi in Gallia (ROUMEGUÈRE). —
Pestalozzie complæ et *P. monochæte* subaffinis, a quibus præci-
 pue arista brevi, curva et stipite brevi diversa.

69. **Pestalozzia monochætoidea** Sacc. Syll. III, p. 798. var. *affinis* 417
 Sacc. et Briard. in Rev. Myc. 1886. — Acervulis sparsis, puncti-
 formibus vel oblongis, brunneis, erumpentibus; sporulis ovato-el-
 lipticis, rotundatis vel basi attenuatis, rectis vel leniter curvulis,
 3-septatis, loculo superiore conoideo, hyalino, inferiore obtusiore

obscurioreque, intermediis olivaceis, pellucidis, 12-16 \approx 6-7, cilio unico, obliquo, 10 \approx 1; basidiis filiformibus, 10 \approx 1.

Hab. in sarmentis emortuis *Vitis viniferae*, Troyes Galliae (BRIARD).

SEPTOGLÆUM Sacc. Syll. III, p. 801.

- *6. **Septoglæum defolians** Harkness Fung. Pac. Coast. pag. 161. — 4625
Acervulis carneis, folia petiolaque occupantibus; conidiis 3-7-septatis, non vel vix curvis vel flexuosis, 68 \approx 4.

Hab. in *Quercu Kelloggii*, Sierra Nevada Californiæ.

- *8. **Septoglæum septorioides** Pass. in Erb. Critt. Ital. Ser. II, n. 1492. 4626
— Acervulis epiphyllis, tectis, subglobosis, conidiis bacillaribus, pluriseptatis, ad septa non vel varie constrictis, articulis interdum 1-2-guttulatis et quandoque secedentibus, hyalinis, 22.5-38 \approx 5-7.

Hab. ad frondes languidas, mox arescentes *Pteridis aquilinae* prope Parma Ital. bor.

STEGANOSPORIUM Corda. — Sacc. Syll. III, p. 803.

- *1. **Steganosporium cenangioides** Ell. et Roth. in Journ. of Myc. 1885. 4622
— Stromatibus erumpentibus, tuberculiformibus, excavatis et sursum discoidalibus, margine demum expanso et tum *Peziza nigra* simulantibus; conidiis latis, oblongo-fusoideis vel ovato-oblongis, endochromate 5-8 partito, muriformi, 35-40 \approx 10-15, pedicellatis.

Hab. in ramulis emortuis *Abietis balsameæ*, West Chester Amer. bor.

- *9. **Steganosporium Castaneæ** Lib. in Brunaud Contrit. à la Flore Myc. 4628 de l'Ovest pag. 21. — Acervulis magnis, epidermide velatis, dein erumpentibus, brunneo-olivaceis; conidiis oblongo-ellipsoideis, rectis vel curvatis, sæpius 6-septatis, brunneis, 50-58 \approx 14.

Hab. in ramis emortuis *Castaneæ*, Charente Inférieure Galliae et in Belgio.

- *15. **Steganosporium? variabile** Bon. in Hedw. 1876, p. 83. — Cæspi- 4629
tulis parum elevatis; sacculis a (?) tenuissimis lentiformibus, ostiolo simplici pertusis; strato prolifero mucoso-griseo; basidiis clavatis et stipitatis; conidiis nigris, cylindræis, utrinque rotundatis, tri-septatis, muco obvolutis.

Hab. in fructibus putrescentibus in Guestphalia.

HYPHOMYCETÆE Martias p. m. p.

Fam. 1. Mucedineæ LINK. em. .

Sect. 1. Amerosporæ Sacc.

Subsect. 1. Micronemæe Sacc.

OOSPORA Wall. — Sacc. Syll. IV. p. 11.

* 1. **Oospora umbilicata** (Riv.) Sacc. *Torula umbilicata* Riv. Parass. 3584
p. 439, f. 128. — Cæspitulis albidis; mycelio repente; hyphis fer-
tilibus erectis, conidiorum catenulas apice gerentibus; conidiis ovoi-
deis, umbilicatis, hyalinis, 8-9 \approx 4.

Hab. in fœno putri, Pisa Ital. bor.

* 20. **Oospora inæqualis** (Riv.) Sacc. *Oidium inæquale* Riv. Par. p. 3585
447, f. 136. — Alba; mycelio repente, continuo vel demum septa-
to; hyphis fertilibus, erectis, septatis, ad septa constrictis, in ca-
tenulas conidiorum desinentibus; conidiis sphæroideis vel ovoideis,
episporio crasso præditis, intus granulosis, 8-12 \approx 8-10, hyalinis.

Hab. in fœno, Pisa Ital. bor. (PAVESI).

* 52. **Oospora rubiginosa** (Riv.) Sacc. *Torula rubiginosa* Rivolta Pa- 3586
rass. p. 438, fig. 126. — Mycelio repente; hyphis fertilibus bre-
vibus, ramosis, ramulis catenulas conidiorum gerentibus; conidiis
sphæroideis, rubiginosis, 9 μ . diam., minute verrucosis.

Hab. in fœno, Novara Ital. bor.

* 68. **Oospora penicillioides** (Riv.) Sacc. *Oidium penicilloides* Riv. 3587
Par. p. 448, fig. 137. — Mycelio repente, sordide albido, septato;
hyphis fertilibus erectis, ramosis, sursum attenuatis, apice catenu-
las conidiorum gerentibus; conidiis subovoideis, superne acumina-
tis, basi truncatis, episporio crasso, obscureiore donatis, granulo-
sis, 7 \approx 4.

Hab. in fœno sanguine «carbonchio» affecto udo, Pisa Ita-
liæ borealis.

FUSIDIUM Link. — Sacc. Syll. IV, p. 25.

19. **Fusidium lycotropum** Preuss. — Sacc. Syll. IV, p. 28. Grove in 120
litteris. — Album, tenuiter effusum; conidia ad instar ferri æquini
curvata, hyalina, fusiformia, utrinque obtusata, 2-4-guttulata, 18-

30 \approx 3 μ . crass.; in circulum, subinde fere completum, 6-8 μ . diam. circumflexa, guttulis duobus interioribus, fere semper maximis repleta. Conidia concatenata non videre contigit.

MONILIA Pers. — Sacc. Syll. IV, p. 31.

- * 11. **Monilia carbonaria** Cooke in Grevillea XV, pag. 17. — Cæspitulis compactis, pulvinatis, ellipticis vel confluenso difformibus, aurantiacis vel aurantio-rubris, 1-10 mm. diam., hyphis repentibus, intricatis, septatis, dissilientibus, vage ramosis, conidiis globoso-ovalibus, primo concatenatis, dein liberis, levibus, hyalinis rubro-tinctis, 8-12 μ . diam. 3588

Hab. in ligno et ramis, New Zealand Australiæ (COLENSO).

CYLINDRIUM Bon. — Sacc. Syll. IV, p. 36.

- * 12. **Cylindrium Luzulæ** (Lib.) Sacc. in Rev. myc. 1885, tab. LV, fig. 8, 3589
Psilonia Luzulæ Lib. Exs. — Acervulis pulvinatis, compactiusculis, candidis; conidiis cylindricis, utrinque truncatulis, catenulatis, hyalinis, 5-6 \approx 1.

Hab. in foliis *Luzulæ maximæ* in Arduennis (LIBERT) et in Gallia australi (ANG. ROUMEGUÈRE).

OIDIUM Link. — Sacc. Syll. IV, p. 41.

- * 12. **Oidium Verbenaæ** Thüm. et Boll. Contr. Fung. lit. austr. III, p. 6. 3590
— Maculas plus minusve orbiculatas vel sinuosas, subparvas, solitarias, nondum confluentes, laxas, in foliorum pagina superiore colore ex subgriseo roseo vel sordide albescente formans; hyphis brevibus, subrectis, septatis, hyalinis; conidiis longe ellipsoideo-subparallelo-grammis, utrinque vix rotundatis, hyalinis, 10-12 \approx 4-7.

Hab. ad folia viva *Verbenarum* hortorum, Gorizia Ital. bor.

Subsect. 2. **Macronemææ** SACC.

CEPHALOSPORIUM Corda — Sacc. Syll. IV, p. 56.

- * 12. **Cephalosporium (?) tumefaciens** Winter in Hedwigia 1885, p. 259. 3591
— Conidiis 4-10 glomerulos hemisphæricos formantibus, oblongo-subcuneatis, vertice rotundatis, deorsum plus minusve attenuatis, continuis, pallide fuscidulis, interdum parum curvatis, 10-16 \approx 5-7.

Hab. ad plantam frutescentem vel arboream vivam, adhuc indeterminatam folia ramulosque tumefaciens et deformans prope S. Francisco Bras (E. ULE).

CORETHROPSIS Corda. — Sacc. Syll. IV, p. 62.

- *3. **Corethropsis epimyces** Masee New Microfungi p. 3, fig. 16-18. 35
— Gregaria; stipitibus albis, simplicibus, conicis, hyphis permultis compositis undique orientibus, præter basim incrassatam septatis, patentibus, nonnullis capitulum conidiorum, subglobosum gerentibus; conidiis hyalinis, oblongo-linearibus, oblique apiculatis.

Hab. in *Mycena* pura putri socio *Spinello fusigero*, Scarborough Britannicæ.

STERIGMATOCYSTIS Cram. — Sacc. Syll. IV, p. 71.

- *7. **Sterigmatocystis dasytricha** Ell. et Ev. in Journ. of Myc. 1886. 359
p. 104. — Hyphis fertilibus effusis, velutinis, erectis, pallide olivaceo-brunneis, septatis, 250-300 \approx 6-8, apice in capitulum ovoideum vel oblongum dilatatis; sterigmatibus noduloso-ramosis, 20-25 \approx 4, apice obtusis vel sublobatis, ramos brevissimos vel tubercula, irregulariter disposita gerentibus, capitulum oblongum formantibus, 45-60 \approx 20-25; conidiis oblongo-cylindraceis, hyalinis, 5-7 \approx 1 $\frac{1}{4}$ -1 $\frac{1}{2}$, solitariis vel 2-3 catenulatis, apice basidiorum insertis.

Hab. in ligno emortuo in America boreali (LANGLOIS). — Primo obtutu colore cæspitulorum *Menisporam glauco-nigram* in mentem revocat.

GLIOCLADIUM Corda — Sacc. Syll. IV, p. 84.

- *3. **Gliocladium lignicolum?** Grove in Journ. of Bot. 1886, p. 199. — 359
— Hyphis gregariis vel fasciculatis, erectis, æqualibus, 3-4-septatis, hyalinis, apice penicillatim di-trichotomis; capitulo conidiorum globoso vel obovato, albo; conidiis muco conglutinatis, hyalinis, oblongo-ovoideis, 2-2,5 \approx 1,5.

Hab. in ligni superficie, Barnt Green Britannicæ. — A *G. penicillioide* non nisi conidiis duplo brevioribus et loco natali differt: forsitan potius varietas habendum. Hyphæ ligni succo parte inferiori, quinetiam ramuli colore, brunneo tincta sunt.

SPOROTRICHUM Link. — Sacc. Syll. IV, p. 96.

- *37. **Sporotrichum Darutæanum** Roum in Rev. Myc. 1886, p. 92. — 359
Cæspitulis sparsis, aureis; hyphis sterilibus repentibus; fertilibus raris, erectis, non septatis, tortuosis, fulvis; conidiis acrogenis, hyalinis, parvis, minusculis, 2-2,5 \approx 1-1,5.

Hab. in cortice exsiccata *Cinnamomi* uida in insula Mauritio.

OVULARIA Sacc. Syll. IV, p. 139.

- * 1. **Ovularia Malorum** Cooke in Grevillea XIV, p. 130. — Hypophylla; 3596
maculis effusis, confluentibus, albidis, subfarinosis; hyphis brevibus; conidiis ellipticis, hyalinis, 10-12 \approx 4-5.

Hab. in foliis vivis, petiolis, etc. ramorum juniorum Piri, New Zealand Austral. (Kirk).

- * 2. **Ovularia Levistici** (Oud.) Berl. et Vogl. *Ramularia Levistici* 3597
Oud. Contr. Fl. Myc. Pays-Bas. XI, pag. 40. — Maculis sparsis, brunneis; cæspitulis amphigenis, vel tantum epiphyllis; hyphis cylindraceis ramosis, sursum multi-articulatis, e cellulis linearibus, 20-25 \approx 2-5, utrinque rotundatis, imperfecte conjunctis compositis; conidiis ovoideis, uniseptatis.

Hab. in foliis Levistici officinalis, Putten Hollandiæ.

VERTICILLIUM Nees. — Sacc. Syll. IV, p. 150.

- * 12. **Verticillium fimeti** Oud. Aanw. IX-X, p. 47. — Laxe gregarium, 3598
niveum; hyphis fertilibus mycelii repentibus, paucis assurgentibus, filiformibus. $\frac{7}{10}$ - $\frac{8}{10}$ mm. altis, 9-10 μ . crassis, 4-5-septatis, verticillatim ramosis; verticillis primariis tribus, singulis ramis ternis; ramis primis imo secundi ordinis sua vice verticillis ramorum fermatorum enustis; conidiis fere ovalibus, $1\frac{2}{3}$ -2, hyalinis.

Hab. in fimo Cuniculorum in Hollandia.

CLONOSTACHYS Corda — Sacc. Syll. IV, p. 165.

- * 1. **Clonostachys spectabilis** (Harz) Sacc. in litt. *Botrytis spectabilis* 3599
Harz Hyph. p. 27, t. V, f. 2. — Cæspitulis densis, subglobois, 2-3 mm. diam., initio albis dein carneolis; hyphis erectis, filiformibus, remote septatis, a medio sursum iterato-dichotomo-ramosis, ramulis subinde ternis; conidiis secus ramulos longe et dense spicatis, globosis, 6 μ . diam., e hyalino roseolis.

Hab. in ramis putridis Carpini Betuli, Æsculi in Austria (Harz) et in pulvere coriario in Hollandia (OUDEMANS). — Cl. Oudemans in litt. monet conidia in hac specie esse stipitellata, qua nota accedit tum ad *Sceptromyctem*, tum ad *Botrytis* sectionem *Phymatotrichum*. Hinc in clavi generum (Syll. IV, p. 6) leviter reformandus character quoad conidia subinde stipitata.

Sect. 2. Didymosporæ Sacc.**TRICHOHECIUM** Link. — Sacc. Syll. IV, p. 179.

- * 1. **Trichothecium albido-roseum** (Roum.) Berl. et Vogl. *Trichospor-* 3600

rium albido-roseum Roum. in Rev. Myc. 1886, pag. 92. — Cæspitulis pulvinatis, primo distinctis dein confluentibus, primum albis dein roseis, inter corticem et lignum nidulantibus et perithecia *Diplodia Mori* tegentibus; hyphis sterilibus repentibus, ramosis, septatis, intricatis; hyphis fertilibus erectis, non septatis, raris; conidiis ovoideis, non piriformibus, didymis, 16-20 \approx 10-14.

Hab. in ramis emortuis *Mori* albæ udis, Carcassone Galliæ.

DIDYMARIA Corda — Sacc. Syll. IV, p. 184.

- * 1. **Didymaria Clematidis** Cooke et Harkness in Grevillea XIII, p. 17. 360
— Hypophylla; maculis griseo-fuscis, subellipticis; sporis elliptico-elongatis, hyalinis, demum uniseptatis, breviter pedicellatis, 25 \approx 8.

Hab. in foliis *Clematidis* in California (HARKNESS).

- * 2. **Didymaria Linariæ** Pass. in Erb. Critt. It. Ser. II. n. 1494. — 360
Cæspitulis punctiformibus, albis, amphigenis, hyphis simplicibus, subulatis, continuis; conidiis acrogenis, utrinque rotundatis, oblongis, prope medium septatis, 20 \approx 7,5.

Hab. ad folia viva mox arescentia *Linariæ* vulgaris pr. Parma Ital. bor.

Sect. 3. Phragmosporæ Sacc.

DACTYLIIUM Nees — Sacc. Syll. IV, p. 188.

- * 1. **Dactylium Ulicis** (Cr.) Sacc. in litteris. *Chetopsis Ulicis* Cr. Fl. 360
Finist. p. 12. — Hyphis e basi incrassata sursum attenuatis, septatis, medio verticillum basidiorum brevium, furcatorum, ascendentium ferentibus; conidiis cylindræis, truncatis. 8-septatis, hyalinis.

Hab. in foliis adhuc virentibus rami dejecti *Ulicis* in paludosis, Finistère.

BLASTOTRICHUM Corda — Sacc. Syll. IV, p. 191.

- * 1. **Blastotrichum floccosum** (Harz) Berl. et Vogl. *Acrothecium floccosum* Harz Hyph. p. 37, t. IV, f. 9. — Candidum, demum luteolum, tenue, ramosum, subrepens; hyphis filiformibus, subcontinuis, sporophora brevissima, simplicia vel ramulosa erecta, hinc inde emittentibus; conidiis clavatis, 3-5-septatis, non constrictis, 35 μ . longis. 360

Hab. in epidermide hominis eczemate laborantis in Germania.

- * 6. **Blastotrichum obtusum** (Bon.) Sacc. *Helm. obtusum* Bon. Handb. 3605
pag. 90, fig. 169. — Cæspitulis albis, subfarinaceis; hyphis simplicibus, septatis, crassis, apice obtusis: conidiis oblongo-cylindraceis, utrinque rotundatis, 3-septatis albis, plerumque pleurogenis, raro binis catenatis.

Hab. in (truncis?) in Guestphalia.

MONACROSPORIUM Oud. — Sacc. Syll. IV, p. 193.

- * 1. **Monacrosporium sarcopodioides** (Harz) Berl. et Vogl. *Acrothecium sarcopodioides* Harz Hyph. p. 36, t. II, f. 4. — Candidum, tenuissimum; hyphis filiformibus, repentibus; sporophoris ascendentibus, continuis, in conidium clavatum, 3-5-septatum, hyalinum, 35-38 μ . longum, longitudine sporophori abeuntibus.

Hab. in lignis quercinis et pinis putridis, Wien Austriae.

RAMULARIA Ung. — Sacc. Syll. IV, p. 196.

- * 112. **Ramularia Charmænerii** Rostrup Island Svamp. in Bot. Tidssk. 3607
1885. — Conidiis obovato-oblongis, 1-septatis, 25 \approx 7-9.

Hab. in foliis Chamænerii latifolii in Islandia.

- * 2. **Ramularia Banksiana** (Pass.) Sacc. *Fusidium Banksianum* 3608
Pass. in Erb. Critt. It. Ser. II, n. 1078. — Cæspitulis minutis, erumpentibus, punctiformibus, candidis, aggregatis dein confluentibus; conidiis lanceolatis, integris, hyalinis, endoplasmate opaco, 7,5-12 \approx 2,3-3.

Hab. in foliis emortuis adhuc pendulis Rosæ Banksiæ, Parma Ital. bor.

CERCOSPORELLA Sacc. Syll. IV, p. 218.

- * 1. **Cercospora chionea** (E. et Kell.) Sacc. *Cercospora chionea* 3609
E. et Kell. Bull. Torr. Bot. Cl. XI, p. 122. — Amphigena sed sæpius epiphylla; maculis latis, 0,5-1 cm. vel confluento 3-4 cm. diam., obscure rufo-brunneis, zona brunneo-flavicante, non elevata cinctis: hyphis dense cæspitulosis, subhyalinis, 18-30 \approx 4-5, subinde vero 35-40 μ . longis et leniter undulatis vel sursum curvis; conidiis vermicularibus vel clavato-cylindraceis, 54-90 \approx 4-5, 3-8-septatis.

Hab. in foliis Cercidis canadensis, Kansas Amer. bor. — Sistit pruina albam in maculis atris.

*Fam. 2. Dematiæ Fr.**Sect. 1. Amerosporæ Sacc.**Subsect. 1. Micronemeæ Sacc.*

CONIOSPORIUM Link. — Sacc. Syll. IV, p. 238.

* 1. **Coniosporium nitidum** Karst. in Rev. Myc. 1885, p. 107. — Cæ- 361
spitulibus epiphyllis, minutis, punctiformibus, sparsis, hinc inde gregariis vel confluentibus, atris; conidiis ovoideis, nitidis, atris (sub microscopii fuscis,) 30-33 \approx 15-18; hyphis obsoletis.

Hab. in foliis languescens Viciæ sativæ, Mustiala Fennicæ.

* 19. **Coniosporium incertum** Karst. in Rev. Myc. 1885, pag. 107. — 361
Cæspitulibus superficialibus, minutis, punctiformibus, sparsis vel subgregariis, atris; conidiis sphaeroideo-ellipsoideis vel subsphaeroideis, hyalinis, coacervatis, dilutissime fuliginosis (sub lente) 2-3 \approx 1-2.

Hab. in ligno vetusto Sorbi Aucupariæ, prope Mustiala Fennicæ.

TORULA Pers. — Sacc. Syll. IV, p. 249.

* 26. **Torula Broussonetiæ** Thüm et Boll. Contr. Fugh. litt. Austr. 361
III, pag. 4. — Cæspitibus expansis effusisque, tenuibus, laxis, sordide griseo-atris; catenulis brevibus, plerumque subrectis, sed interdum etiam sinuosis; conidiis applanato-globulosis, unicellularibus, pallide fuscis, 3-4 μ . diam., subdiaphanis.

Hab. in ramulis emortuis Broussonetiæ papyriferae in agro Goritiæ.

* 75. **Torula cyperina** Roum et Pat. in Rev. Myc. 1885, pag. 175, 361
tab. LV, fig. 12. — Tenuissima, superficialis, elongata, inter nervulos foliorum insidens: mycelio pallide brunneo, radiante; hyphis brevibus, catenulas simplices, erectas conidiorum gerentibus; conidiis brunneis, levibus, applanatis, 4-5 \approx 2.

Hab. in foliis exsiccatis Cyperi longi circa Toulouse Gailla.

* 89. **Torula circinans** A. Roum. et Pat. in Rev. Myc. 1886, p. 156. 361
— Conidiis globulosis, brunneis, sublevibus, catenulatis; catenulis 15-25 \approx 5; hyphis fertilibus simplicibus, raro bifidis, densissimis, brunneis, circinatim dispositis, demum confluentibus.

Hab. in tegulis marnaceis tecti equilis, Toulouse Gallicæ (A. ROUMEGUÈRE).

Subsect. 2. **Macronemeæ** Sacc.**PERICONIA** (Tode?) Bon. — Sacc. Syll. IV, p. 270.*16. **Periconia lateralis** Ell. et Ev. in Journ. of Myc. 1886, p. 104. 3615

— Hyphis fertilibus erectis, subulatis, septatis, opacis, 250-300 \approx 8-10 (ad basim), subrectis, lateraliter, prope apicem, globulum brunneum conidiorum gerentibus; conidiis globosis, luteo-brunneis, echinulatis, 10-12 μ . diam., crasse nucleatis.

Hab. in caulibus herbaceis in Amer. bor. (LANGLOIS).

ARTHRIINIUM Kunze — Sacc. Syll. IV, p. 279.*1. **Arthriniium naviculare** Rostrup Swampe fra finmarken pag. 235 3616
(danice). — Conidiis navicularibus, brunneis 40-50 \approx 11-14.

Hab. in follis Caricis vaginatæ in Dania.

* **Arthriniium bicorne** Rostrup Swampe fra finmarken p. 235 (danice). 3617

— Conidiis 25-30 \approx 8-9.

Hab. in foliis et scapis Junci compressi in Dania

VIRGARIA Nees — Sacc. Syll. IV, p. 280.*5. **Virgaria deflexa** (Preuss) Sacc. in litt. *Psilonia deflexa* Preuss. 3618

F. Hoyersw. n. 62 et in Sturm. Deut. Cryptogam. Fl. t. 19. — Cæspitulis magnis, tomentosis, atris, opacis; hyphopodio repente; hyphis confertis, atro-fuscis, sursum pallidioribus, erectis, simplicibus vel furcatis, septatis, obtusis; conidiis sparsis, obovatis, pallidis.

Hab. in ligno Pini, Hoyerswerda.

*6. **Virgaria salebrosa** (Preuss) Sacc. in litteris. *Psilonia salebrosa* 3619

Preuss F. Hoyersw. n. 61. — Cæspitulis effusis, atro-fuscis; hyphis intricatis, ramosis, septatis, salebrosis, intense-fuscis; conidiis ovatis, atro-fuscis, impellucidis; episporio hilo instructo; nucleo firmo.

Hab. in lignis Alni, Hoyerswerda. — «An *Trichosporium?*»

ZYGOESMUS Corda. — Sacc. Syll. IV, p. 283.*1. **Zygoesmus indigoferus** Ell. et Ev. in Journ. of Myc. 1886, p. 149. 3620

— Stratum laxum, subtile, submembranaceum æruginosum, demum luteo-griseum, margine byssoideum efformans; hyphis fertilibus gracilibus, ramosis, septatis, circiter 3 μ . diam.; conidiis globosis, levibus basidiis brevibus 8-10 \approx 3 insertis.

Kab. in ligno putrescente, West Chester Amer. bor.

TRICHOSPORIUM Fr. — Sacc. Syll. IV, p. 288.

- *1. **Trichosporium contaminans** Oud. Contr. Fl. Myc. Pays-Bas XI, 3621
pag. 49. — Cæspitulis sordide brunneis, vel nigrescentibus subinde
maximi; hyphis prostratis, brunneis, septatis, longissimis, vage ra-
mosis, 3-5 μ . latis; ramis brevibus, lateralibus, apice glomerulum
conidiorum gerentibus; conidiis sphaeroideis, continuis, 2-5-4,6
 μ . diam.

Hab. ad cortices arborum ed ad muros «d'une distillerie de
genievre», Schiedam Hollandiæ.

VERTICICLADIUM Preuss. — Sacc. Syll. IV, p. 327.

- *1. **Verticicladium acuum** Oud. Contr. Flor. Myc. Pays-Bas XI, p. 50. 3622
— Hyphis erectis articulatis, deorsum saturate fuscis, sursum di-
lutius tinctis, apice hyalinis, nunc brevioribus, 235 \approx 12, tunc vero
clatioribus, infra apicem verticillis binis ramorum ternorum alter-
nantium conidiferorum onustis; ramis conidiferis piriformibus, sur-
sum valde contractis; conidiis hyalinis, ellipticis, $2\frac{1}{3} \approx 1\frac{1}{5}$

Hab. in foliis Abietis excelsæ, socia *Vermicularia acuum*,
Putten Hollandiæ.

CHALARA Corda — Sacc. Syll. IV, p. 333.

- *4. **Chalara Rubi** Sacc. et Briard. in Rev. Myc. 1886. — Hyphis cylin- 3623
draceis, medio subinflatis, 80-100 \approx 8-10, brunneis, 3-4-septatis;
conidiis catenulatis, cylindricis, 4-guttatis, truncatis, 18-20 \approx 5-6.

Hab. in sarmentis Rubi, Troyes Galliæ.

- *10. **Chalara paradoxa** (De Seynes) Sacc. in litt. *Sporoschisma pa-* 3624
radorum De Seynes Rech. Veget. Inf. III, p. 30, t. I, fig. 22-24.
— Mycelio repente, septato, hyalino; hyphis fertilibus erectis, cy-
lindræco-obclavatis, dilute fuligineis, deorsum 3-4-septatis; con-
idiis ex interiore hyphæ catenulatim exilientibus, breve cylindra-
ceis, utrinque obtusis, 9-10 \approx 4-5, hyalinis; hyphis alteris fertili-
bus ex eodem mycelio (teste Seynesio) oriundis, paullo breviori-
bus, non inflatis, subhyalinis, apice conidia oblongo-ovoidea, utrin-
que obtusa, catenulata, 18 \approx 8-9, olivaceo-fuliginea, uniguttata ge-
rentibus.

Hab. in fructibus putrescentibus Ananassæ cultæ, Paris Gal-
liæ. — *Ch. brachysporæ* peraffinis species; an forma toruloidea
ex eodem *Chalaræ* mycelio oriatur, nobis mirum videtur.

Sect. 2. Didymosporæ Sacc.*Subsect. 1. Macronemææ* Sacc.**FUSICLADIUM** Bon. — Sacc. Syll. IV, p. 345.

- *9. **Fusicladium fuliginosum** Kalch. et Cooke in Grevillea 1884, p. 24. 3625
— Effusum, fuliginosum, incrustatum; hyphis repentibus, ramosis, ramulis assurgentibus, brevibus, quandoque furcatis; conidiis fuscoideis, continuis, hyalinis, 10-12 \approx 4.

Hab. in foliis vivis (ignotis), Natali Africae.**CLADOSPORIUM** Link. — Sacc. Syll. IV, p. 350.

117. **Cladosporium profusum** Rabenh. in Cooke Black Moulds, t. XXV, 1781 fig. 12. — Sacc. Syll. IV, p. 371. — Hyphis fasciculatis, nodulosis, septatis, fuscis, sursum pallidioribus, erectis, 6-7 μ . crassis; conidiis apice hypharum vel nodulis insertis, ovoideis, magnitudine variis, continuis, uni-biseptatis, guttuligeris, 18-24 \approx 5, pallidis.

Hab. in vegetabilibus putridis in Germania. — «Affine, ut videtur, *C. herbarum*».*Sect. 3. Phragmosporæ* Sacc.*Subsect. 1. Micronemææ* Sacc.**CLASTEROSPORIUM** Schw. — Sacc. Syll. IV, p. 382.

55. **Clasterosporium caulicolum** (Corda) Sacc. Syll. IV, p. 393, *Bac-* 1868
trodosmium caulicola Grove in litteris. — Conidia sessilia, erecta, dense compacta, cylindrica, utrinque vix attenuata, 6-12-septata, dilute olivacea, pellucida, 60-100 \approx 8-10.

Subsect. 2. Macronemææ Sacc.**HELMINTHOSPORIUM** Link. — Sacc. Syll. IV, p. 402.

- *6. **Helminthosporium parvum** Grove in Journ. of Bot. 1886, p. 203. 3626
tab. 267, fig. — Parce gregarium, fusco-atrum; hyphis erectis, septatis, dilute fuscis, gracilibus, strictis, basi interdum subincrassatis, 80-90 \approx 3-4, apice in conidium unicum (rarissime bina) evadentibus; conidiis oblongis, tridymis, apice obtuse rotundatis, basi subtruncatis, loculo apicali subquadrato et basali cuneato, luteolis, centrali rotundo, crassiori (inflato), brunneo, 12-15 \approx 5-6.

Hab. in ligno quercino, Sutton Coldfield prope Birmingham Britanniae, cum *H. hormiscioide*. Loculus apicalis subinde brunneus, basalis nunquam. *H. coryneoidi* affine.

- * 95. **Helminthosporium Matthiolæ** Thüm. et Boll. Contr. Funghi litt. 3627
 Austr. III, p. 4. — Cæspitulis late effusis, sed tenuibus, laxis, atris; hyphis brevibus, erectis, nodulosis, septatis, pallide ochraceo-brunneis, irregulariter crassis; conidiis longe clavatis, basi in pedicellum longum attenuatis, apice rotundatis, sex-duodecim septatis, ad septa non constrictis, sordide fuscis, $40 \approx 8-9$, pedicello pallidiori, 10-14 μ . long.

Hab. in siliquis aridis adhuc pendulis Matthiolæ incanæ in Goritia.

- * 96. **Helminthosporium (?) Cerasorum** (Thüm.) Berl. et Vogl. *Septosporium Cerasorum* Thüm. in Oester. Landwirth. Wochenbl. 1884, pag. 259 et Thüm. et Boll. Contr. Funghi litt. Austr. III, p. 5. — Cæspitulis densissime gregariis, plus minus orbiculatim dispositis, griseo-fuscidulis, in macula suborbiculata, rufo-ochracea, applanata, disciformi, sat magna; conidiis magnis, rectis, clavatis vel late fusoideis, brevi pedicellatis, basi angustatis, vertice dilatato-rotundatis, quadri-septemseptatis, succineo-luteis, diaphanis, magnitudine varia, $28-48 \approx 10-16$; hyphis brevibus, nodulosis, dilutioribus, 8 μ . crassis suffultis.

Hab. in fructibus maturis quos enecat Cerasi dulci, S. Floriam Goritiæ.

- * 97. **Helminthosporium speculiferum** Ell. et Ev. in Journ. of Myc. 3629
 1886, pag. 104. — Cæspitulis velutinis, maculis, albis, obscure marginatis; hyphis fertilibus effusis, simplicibus, erectis, brunneis, subundulatis, continuis (vel obscure septatis?) $100 \approx 2,5-3$; conidiis oblanceolatis, pallide brunneis, 5-9-septatis, in basim gracilem attenuatis, sursum abruptius contractis, apice truncato, obscuriore, subinde uno vel nonnullis septis constrictis.

Hab. in foliis Sabalis Palmetto, Louisiana Amer. bor. (LANGLOIS).

- * 98. **Helminthosporium armatum** (Lév.) Berl. et Sacc. *Oxysporium* 3630
armatum Lév. in Ann. Sc. Nat. 1863, pag. 300. — Hyphis setiformibus gregariis nigris, erectis, rigidis, simplicibus, continuis; conidiis 2-4, locularibus, levibus, acumine inani, lanceolatis, septatis, basi adfixis, apice liberis.

Hab. ad ligna vetusta, Villeta Alto del Trigo Novæ Granat. — «Nullis notis ab *Helminthosporiis* nobis differre videtur».

CERCOSPORA Fres. — Sacc. Syll. IV, p. 431.

- * 35. **Cercospora marginalis** Thüm. Boll. Contr. Fung. litt. Austr. III, 3631

p. 5. — *Cæspitulis* hypophyllis, minutis, nigris, in foliorum margine, arescendo fusco-brunneo, fere regulari; hyphis brevibus, subrectis, ramulosis, septatis, griseo-fuscis; conidiis clavulatis, utrinque angustatis, apice rotundatis, tri-raro quadricellularibus, ad septa minime constrictulis, fuligineo-fuscidulis, 24-7; pedicello brevi.

Hab. ad folia viva Ribis Grossulariæ in Goritia.

* 44. **Cercospora striæformis** Winter in Hedwigia 1886. p. 103. — 3632

Cæspitulis dense stipatis, maculas lineares, fumosas, plerumque hypophyllas, usque 5 mm. longas formantibus, tenuissimis, fuscidulis; hyphis fasciculatis, erectis, parum torulosis, simplicibus, fuscis, pluriseptatis, usque 120 μ longis, 4,5 μ . crassis; conidiis tenuissimis filiformibus, deorsum vix incrassatulis, apicem versus parum attenuatis, plerumque 3-5-septatis, hyalinis, sæpe subcurvatis, usque 45 \approx 1,5.

Hab. in foliis vivis Graminum in insula S. Thomè Af. occ.

* 56. **Cercospora æquatorialis** Winter in Hedwigia 1886, p. 103. — 3633

Cæspitulis hypophyllis, densissime stipatis, maculas submagnas, angulato-irregulares, atro-fuscas, cinereo-pruinosas, usque 7 mm. longas formantibus; hyphis fasciculatis, erectis, interdum subramosis, torulosis, fuscis, remote septatis, usque 100 μ . longis, interdum valde elongatis, 4,5-6 μ . crassis; conidiis filiformi-subclavatis, i. e. e basi parum crassiori sursum longe attenuatis, hyalinis, parce remoteque septatis, usque 70 μ . longis, 1 $\frac{3}{4}$ μ . crassis.

Hab. in foliis vivis Compositarum in insula S. Thomè Africæ occid.

* 60. **Cercospora Meliloti** Oud. Contr. Flor. Myc. Pays-Bas, XI, p. 51. 3634

Depazea Meliloti Sacc. Syll. III, pag. 63. — Maculis albidis, orbicularibus, ovoideis vel oblongis, 2-4 mm. diam., hyphis fertilibus e pseudostromate parenchymatico, subcutaneo, sphæroideo, atro orientibus, epidermidem fasciculatim perforantibus, brunneolis, septatis, 20-69 \approx 3-4, plus minusve flexuosis; conidiis bacillaribus, vel obclavatis, uni-pluriseptatis, 23-65 \approx 2-3, hyalinis.

Hab. in foliis Meliloti officinalis prope Nymèque Hollandiæ.

ACROTHECIUM Preuss. — Sacc. Syll. IV, pag. 483.

* 1. **Acrothecium xylogenum** Grove in Journ. of Bot. 1886, p. 203, 3635

tab. 267, fig. 2. — Hyphis non maculicolis, erectis, strictis vel curvulis, æqualibus, infra fuscis, sursum pallidioribus, apice fere hyalinis, 120-250 μ . altis, coronam 6-8 conidiorum gerentibus;

conidiis cylindricis, apice rotundatis, basi acutatis, 4-guttulatis, denique tenuiter 3-septatis, hyalinis, 14-17 \approx 3.

Hab. in ligno putri, Barnt Green Reservoir Britanniae. — *A. carulium* affine at conidiis semper hyalinis, 3-septatis distinctum. Septa maturitate tantum visibilia.

SPORENDONEMA Desm. em. Oudem Een voorb. end. spor. Hyph. p. 115. (Etym. *spora*, *endon* intus et *nema* filum). — Hyphæ albæ, steriles repentes, septatæ, ramosæ; fertiles assurgentes. Conidia in interiore hypharum generata et catenulatim exsilia, hyalina dein fusca. — *Sporendonema Casei* Desm. ad *Oosporam* spectat.

1. **Sporendonema terrestre** Oud. Ecen. voorb. end. spor. Hyph. in 3636
Versl. Acad. Amster. 1885, p. 115 (cum icone). — Mycelio in terra humosa repente, albo, articulato, ramoso; hyphis fertilibus erectis, ramosis, continuis; conidiis endogenis, a se invicem remotis, ex hypharum fertilium protoplasmate ortis, primitus hyalinis, utrinque planis, postremo fuscis, utrinque rotundatis, manicatis, i. e. tubulo membranaceo, brevi, achromo ex hypharum interstitiis vacuis circumcissione orto ornatis, 7 \approx 2 $\frac{1}{3}$, absque appendiculis maniciformibus.

Hab. in calidariis in pulvere coriario, Amsterdam Hollandiæ.

Sect. 1. Dictyosporæ Sacc.

Subsect. 1. Micronemeæ Sacc.

SPORODESMIUM Link. — Sacc. Syll. IV, p. 497.

- * **Sporodesmium inquinans** E. et E. in Journ. of Myc. 1886, p. 38. — 3637
Cæspitulis densis, purpureo-nigris, pulverulentis, iis *Torule herbarum* similibus; conidiis subglobosis, rufescentibus, opacis, 12-25 μ . diam., pedicellatis; pedicellis (hyphis) diametrum conidiorum æquantibus, mox evanidis.

Hab. in superficie inferiore asseris quercini. Plaquemines Amer. bor. (REV. A. B. LANGLOIS). — Affine *S. leprarium*, sed magis pulverulentum et conidiis minoribus.

- * 2. **Sporodesmium helicoides** E. et Ev. in Journ. of Myc. 1886, p. 38. 3638
— Compactum, atrum, crustaceum; cæspitulis 2-3 cm. longis, circiter, 1 cm. latis, e conidiis cylindræis, obscure coloratis, multi-septatis, 40-6 \approx 6-8, nonnullis rectis, sed plerumque incurvatis, *He-*

licomycei similibus, loculis, uno vel amplius, subinde septulo longitudinali divisus, efformatis.

Hab. in superficie inferiore asseris quercini, Plaquemines Amer. bor. (REV. A. B. LANGLOIS). — Affine *S. larvato*. A *S. helicosporo* distinctum.

Subsect. 2. Macronemæ SACC.

MACROSPORIUM Fr. — Sacc. Syll. IV, p. 523.

- *7. **Macrosporium Valerianellæ** Roum. in Rev. Myc. 1886, p. 93. — 3639
 Hyphis fasciculatis, simplicibus, septatis, 35-45 \approx 4-7, claviformibus; conidiis sarciniformibus, multiseptatis, episporio nigrescente donatis, 12-18 \approx 10-15.

Hab. in caulibus exsiccatis *Valerianellæ discoideæ*, Rouen Galliæ, socia *Phoma herbarum* (AB. LETENDRE).

- *17. **Macrosporium Readeri** Winter in Rev. Myc. 1886, p. 212. — 3640
 Cæspitibus, effusis substratum longe lateque obducentibus, aterrimis, fasciculis hypharum plus minusve convergentium, minutis, discretis constitutis, hyphis erectis, simplicibus, longissimis, rigidis, valde flexuosis torulosisque, dense septatis, fuscis, 300-320 \approx 9-10,5; conidiis clavatis, sursum in caudam filiformi-cylindricam, diluotorem attenuatis, septis transversalibus 10-14, septis longitudinalibus 2 aut pluribus in cellulis latioribus præditis, toruloso-constrictis, fuscis, 110-140 \approx 19-20.

Hab. ad caules aridos *Cynaræ Scolymi* prope Melbourne Australiæ (READER). — Ab omnibus affinibus hyphis elongatis, validis, sporidiorum magnitudine formaque diversum.

DACTYLOSPORIUM Harz. — Sacc. Syll. IV, p. 545.

- *1. **Dactylosporium brevipes** Grove in Journ. of Bot. 1886, p. 204, 3641
 tab. 267, fig. 7. — Gregarium atrum; hyphis erectis, brevibus, flexuosis, fuscis, sursum pallidioribus, dense septatis, subtorulosis (cellulis subquadratis), simplicibus vel apicem versus furcatis, 50-70 \approx 5, apice capitulum aterrimum, compactum, 5-8 conidiorum genentibus; conidiis obovatis, saturate fuscis, fere opacis, 20-22 \approx 10-13, angulate cellulosis, septo unico longitudinali, reliquis obliquis vel radiantibus.

Hab. in ligno *Aceris Pseudoplatani*, Sutton Coldfield prope Birmingham, Britanniæ. — *D. macropodi* peraffine et quasi varietas, at satis diversum videtur.

ALTERNARIA Nees — Sacc. Syll. IV, p. 545.

- *1. **Alternaria Cucurbitæ** Let. in Roum. in Rev. Myc. 1886, p. 93. 3642
 — Hyphis brevibus, approximatis, rectis, subsimplicibus, brunneis; conidiis lageniformibus, olivaceis, magnitudine variis, sæpius, 60-68 \approx 8-9.

Hab. in maculis aridis Cucurbitæ Melonis var. cultæ, Rouen Galliæ (AB. LETENDRE).

- *2. **Alternaria Malvæ** Roum. et Let. in Rev. Myc. 1885, p. 177. — 3643
 Hyphis aggregatis, rectis, brevibus, non septatis, fuliginis sæpius ramosis; conidiis superpositis, forma variis, subrotundis, sæpius cuneiformibus, brunneis, 33-54 \approx 9-14, transverse pluriseptatis.

Hab. in maculis aridis foliorum Malvæ crispæ a *Puccinia Malvacearum* vexatorum, Seine-Inférieure Galliæ.

Sect. 6. Helicosporæ Sacc.**HELICOSPORIUM** Nees — Sacc. Syll. IV, pag. 557.

- *1. **Helicosporium albidum** Grove in Journ. of Bot. 1886, pag. 204, 3644
 tab. 267, fig. 6. — Hyphis erectis, septatis, fere hyalinis, primo simplicibus, dein infra ramosis, 200-300 μ . alt., 2 $\frac{1}{2}$ -3 μ . crass., supra æque ac ramis longis, adscendentibus, sterilibus et flagelliformibus; conidiis lateralibus, substipitatis, hyalinis, pluriguttulatis, 2-2 $\frac{1}{2}$ μ . crass., basi attenuatis, apice obtuse rotundatis, in circulum 15-20 μ . diam. dense spiraliter convolutis; spiris plerumque quaternis.

Hab. in ramis tenuibus Rubi fruticosi, Middleton prope Birmingham Britannicæ. — Cl. Grove non pro certissimo habet hunc non esse statum abnormem, sed cui speciei subjunget, dijudicare nescit. Fungillus maculas albas velutinas efformat.

Fam. 3. Stilbeæ Fr.*Ser. 1. Hyalostilbeæ* Sacc.*Sect. 1. Amerosporæ* Sacc.**STILBUM** Tode — Sacc. Syll. IV, p. 564.

- *19. **Stilbum macrocarpum** Ell. et Ev. in Journ. of Myc. 1886, p. 103. 3645
 Stipitibus albis, cylindraceis vel laxe floccoso-fibrillosis, $\frac{1}{2}$ mm. altis, circiter 75 μ . crassis; capitulo subgloboso, atro, 100-125 μ .

diam.; conidiis oblongis, granulosis, nucleatisque, 12-20 \approx 6-7, subcatenulatis, muco obvolutis, in capitulum arcte congestis.

Hab. in ligno putri in America boreali (LANGLOIS). — A *S. parvulo* nisi capitulo atro distinguendum.

Sect. 2. Phragmosporæ Sacc.

CLAVULARIA Karst. Symb. ad Myc. Fenn. IX, p. 67 (Etym. a *Clavula*). Stipites teretes, ex hyphis tenuissimis, longitudinalibus, coalitis constantes, superne clavato-conidiophori. Conidia fusoidea vel teretia, simplicia, eguttulata, hyalina. «Genus *Ciliciopodio* affine, an ab eo satis distinctum?»

- * 1. **Clavularia fusispora** Karst. Symb. ad Myc. Fenn. IV, p. 67. — 3646
Sparsa vel gregaria, obovato-clavata, pallida seu albida, circiter 1 mm. alta; strato conidiorum ceraceo, siccitate subcollabente; conidiis fusoideis, rectis, concatenatis, 6-9 \approx 2-3.

Hab. ad lignum induratum populinum prope Mustiala Fennicæ. Primo obtutu pro specie *Pistillariæ* vel *Caloceræ* facile sumitur.

- * 2. **Clavularia stenospora** Karst. Symb. ad Myc. Fenn. IX, pag. 67. 3647
— Stipitibus oblongato-clavatis, breviter stipitatis, albidis; conidiis cylindraceis, rectis, hyalinis, 4,5-6 \approx 1-1,5.

Hab. ad lignum sectum Alni incanæ prope pagum Kytö in paroecia Tammela Fennicæ.

ARTHROSPORIUM Sacc. Syll. IV, p. 598.

- * 1. **Arthrosporium parasiticum** Winter in Hedwigia 1886, pag. 103. 3648
— Cæspitulis sparsis, laxis, plerumque ex individuis parvis compositis, minutis, $\frac{1}{2}$ -2 mm. latis, interdum autem confluentibus et majoribus, ochraceis; stipitibus erectis, simplicibus vel apicem versus furcatis, fulvis, 450-700 μ . longis, subteretibus, sursum dilatatis, ex hyphis dense coalitis, parallele stipatis, apicem versus divergentibus et sporidia gerentibus, compositis; conidiis copiosis, fusiformibus, deorsum in stipitem tenuem attenuatis, sursum acutatis, triseptatis, dilutissime ochraceis, 33-44 μ . (cum stipite) longis, 5-7 μ . crassis.

Hab. parasitice in *Meliola inermi* in foliis vivis ignotis in insula S. Thomè Afr. occ.

Ser. 2. Phæostilbæ Sacc.

Sect. 1. Amerosporæ Sacc.

STYSANUS Corda — Sacc. Syll. IV, p. 690.

- *3. **Stysanus setaceus** Pass. in litt. Martelli in Flor. Bog. p. 149. 3149
Gregarius, fuscus; stipitibus e basi bulbeo-incrassata sensim attenuatis, 250-400 μ . longis, ex hyphis filiformibus, 2,5 μ . crassis, continuis, fuliginis formatis; conidiis.....

Hab. in ramis putrescentibus *Acaciae* prope Keren Abyssiniae.

BASIDIELLA Cooke in Grev. VI, p. 118 et Some Moulds p. 1. (Etym. a *basidio*). — Stipites ex hyphis paucis compositi, fuscis, clavati apice capitato-conidiophori. Hyphæ clavatae, superne basidiis minutis ornatae. Conidia capitato-congesta, globosa, asperula, fuliginea.

1. **Basidiella sphærocarpa** Cooke in Grev. IV, p. 118 et Some Moulds 3650
p. 1, t. IX, fig. 1. — Stipitibus brevibus, ex hyphis tribus vel amplius, parce coalitis, compositis, fuliginis; hyphis sursum clavatis, continuis, basidiis acicularibus præditis, $\frac{1}{10}$ mm. altis, 30 μ . latis, basi attenuatis, 5 μ . diam., mycelio repente, brunneo insertis; conidiis in capitulum globosum congestis, sphæroideis, episporio verruculoso, 4 μ . diam. fuscis.

Hab. in ligno emortuo putri *Gloriosae superbæ*, Madras Indiae.

Sect. 2. Phragmosporæ Sacc.

ISARIOPSIS Fries — Sacc. Syll. IV, p. 630.

- *7. **Isariopsis subulata** Ellis et Ev. in Journ. of Myc. 1886, p. 104. 3651
— Stipitibus subulatis, 1-1,5 mm. altis, sursum attenuatis et pallidius coloratis, ex hyphis arcte compactis, brunneis compositis, basi subbulbosis, strigosisque conidia plerumque binucleata, hyalina, ovata, 7-8 \approx 4 ferentibus.

Hab. in culmis putrescentibus *Zeaë Maydis* in America bor. (LANGLOIS).

Fam. 4. Tuberculariæ EHRENB. emend.*Ser. 1. Tuberculariæ mucedineæ* SACC.*Sect. 1. Amerosporæ* SACC.**TUBERCULARIA** Tode — Sacc. Syll. IV, p. 638.

- *1. **Tubercularia carnea** Pass. in litt. Martelli in Flora Bog. p. 150. 3652
 — Sparsa, superficialis, carnea, lenticularis; conidiis exiguis, ellipsoideis, $3\frac{1}{2}$ -4 \approx $2\frac{1}{2}$, plus minus perspicue binucleatis, hyalinis, basidiis tenuibus, longioribus fultis.

Hab. in..... Keren Abyssiniæ.

- *2. **Tubercularia Lévillei** Berl. et Sacc. *Tubercularia depressa* Lév. 3653
 in Ann. Sc. nat. 1863, pag. 298, non *T. depressa* Lév in Ann. Sc. Nat. 1846. — Sporodochiis erumpentibus, discoideis, applanatis, subtus albis, disco depresso cinnabarino, basidiis stipatis, rectis, brevibus continuis; sporulis ovatis, obtusis, incoloribus, diametro duplo triplove longioribus.

Hab. ad cortices, Acerradero Novæ Granatæ (LINDIG). — *Tuberculariam discoideam*, optime evoluta, refert.

TUBERCULINA — Sacc. Syll. IV, p. 653.

1. **Tuberculina japonica** Speg. in Rev. Myc. 1886, pag. 183. — Spo- 3654
 rodochiis parvulis, hemisphærico-applanatis, subpulveraceis, solitariis, sordide fulvescentibus, 300-400 μ . diam., areola parum in-crassato-pulvinata, subfulvescente insidentibus; conidiis globosis, crassiuscule tunicatis, levibus, 7-8, fulvescenti-hyalinis, in sterigmatibus filiformibus, rectis, subcoalescentibus, $30 \approx 1\frac{1}{2}$, olivaceis acrogenis.

Hab. ad folia viva Lycii chinensis in dumetis prope Tokio Japon Asiæ or.

ILLOSPORIUM Mart. — Sacc. Syll. IV, p. 656.

- *1. **Illosporium ampelophagum** Berl. et Sacc. — Sporodochiis erumpenti-superficialibus, albidis, globoso-pulvinatis vel confluendo elongatis, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., ex sporophoris dense intricato-stipatis e-formatis; sporophoris tortuosis, ramulosis, septatis, hyalinis, basi subinde per ganglia sporomorpha, ellipsoideo-inæqualia, $13 \approx 10$, 3655

uni-biseptata coalescentibus; conidiis ovato-ellipsoideis, continuis, 7-10 \approx 4-5, acrogenis, subinde (germinando?) apiculatis.

Hab. in pedunculis et pedicellis languidis *Vitis viniferae* ustione solis correptæ, in Agro Veneto.

HYMENULA Fr. — Sacc. Syll. IV, p. 667.

* 12. **Hymenula bicolor** Oud. Contr. Flore Myc. Pays-Bas XI, p. 53. 365

— Maculis suborbicularibus, $\frac{1}{2}$ -1 mm. diam., cum subiculo arcte connatis, colore primitus albissimo, postea centro dilute griseo margine paulum sinuoso, oculo armato explorato plus minus flocculoso; colore griseo portionis centralis, qui sensim versus peripheriam sese extenuat, originem ducit a conidiis exacte sphericis, 14 μ . diam., minutissime asperulis, in apice basidiorum conico-papilliformium solitariis.

Hab. in ligno Pini hudo in Horto Botanico Amsterdam Hollandiæ.

CYLINDROCOLLA Bon. — Sacc. Syll. IV, p. 673.

* 3. **Cylindrocolla cylindrophora** E. et Ev. in Journ. of Myc. 1886, 3657

pag. 39. — Cæspitulis (hudis) minutis, 1 mm. diam., vix translucidis (?), gelatinosis, subinde confluentibus et tum 3-4 mm. longis, siccitate dilabentibus, hyphis fasciculatis, erectis, gracilibus, dichotome ramosis, conidia oblongo-cylindracea, hyalina, primo granulosa, demum uniseptata, 20-24 \approx 5-6, lateraliter gerentibus.

Hab. in superficie inf. asseris pinei Newfield, New Jersey Amer. bor.

Sect. 3. Phragmosporæ Sacc.

FUSARIUM Link — Sacc. Syll. IV, p. 694.

* 104. **Fusarium nivale** Ces. in Rabenh Herb. myc. Ed. I, n. 1439, *Fu-* 3658

sarium oxysporum Schlech. Fl. Ber. II, pag. 139? — Sporodochiis primo optime distinctis, punctiformibus, seriatis, e carno-miniatis, demum in stratum gelatinosum confluentibus; conidiis minutis, parum curvatis, utrinque rotundatis, apiculatis, fere inæqualibus, 1-5-septatis, 14-20 μ . longis.

Hab. in culmis Cerealium hibernantium prope Vercelli Italiæ borealis.

* 105. **Fusarium stillatum** De Not. in herb. — Acervulis, epidermide 3659

valvatim secedente denudatis, oblongatis, humectis pallescentibus

tremellosis, fluxilibus, 1-2 mm. long. æquantibus; sporodochiis tenuibus, dense flocculosis; conidiis innumeris, coacervatis, teretibus utrinque obtusis, curvatis, hyalinis, 20-35 μ . long., nucleo lacunula angusta ad medium interrupto.

Hab. in caulibus exiccatis Genistæ tinctoriæ ad pontem Possaccio Val Intrasca Ital. bor.

- *106. **Fusarium (?) Rubi** Winter in Hedw. 1885, p. 258. — Hyphis 3660
densissime stipatis, partes florales præcipue filamentis obducentibus, erectis, brevibus, plerumque simplicibus, rarius parcissime ramulosis, hyalinis; conidiis fusiformibus, utrinque acutis, sæpe parum curvatis seu inæquilateralibus, 1-3-septatis, ad septa non constrictis, hyalinis, 14-30 \approx 3-3,5.

Hab. ad flores Rubrum cultorum prope Cobden, Illinois Amer. bor. (F. S. EARLE).

- *141. **Fusarium oidioides** Speg. in Rev. Myc. 1886, pag. 183. — Maculis 3661
nullis, mycelio epiphylo, laxissime effuso, subpulveraceo, indefinito, albo; hyphis hyalinis, repentibus dense ramosis gracilibus, 3-4 μ . crass., hinc inde ramulis irregulariter subfasciculatis, rarius solitariis, utrinque non vel vix attenuatis, 5-10 \approx 4-5, apice truncatis ac 2-3 sterigmatibus papilliformibus brevissimis coronatis; conidiis fusoides, leniter falcatis, non constrictis, utrinque acutis, hyalinis, 30-50 \approx 3-4, solitariis.

Hab. ad folia viva Polygoni multiflori in dumetis prope Tokio Japon.

STRUMELLA — Sacc. Syll. IV, pag. 742.

- *4. **Strumella Darniana** Roum. et Wint. in Rev. Myc. 1886, p. 213. 3662
— Sporodochiis gregariis, in macula permagna, rotundato subirregulari, ambitu flexuoso, lobato crenatoque, determinato, albido, margine lato, lutescente et area obscuriori indeterminata, pro maxima parte epiphyllis, parcius hypophyllis, forma variis, sphaeriformibus vel plus minusve elongatis, fere hysteriiformibus, usque $\frac{1}{2}$ mill. longis, atris, erumpentibus, denum superficialibus, ex hyphis erectis vel ascendentibus, crassis, articulatis, deorsum nigricantibus, sursum hyalinis, ramosis (interdum dichotomis) et dense contextis formatis; conidiis ignotis.

Hab. in foliis vivis Artocarpî integrifoliæ in insula Mauritio (DARNTY).

*Ser. 2. Tuberculariæ dematiæ**Sect. 1. Amerosporæ Sacc.*

EPICOCCUM Link. — Sacc. Syll. IV, p. 736.

30. **Epicoccum Malinvernianum** Cesat. et De Not. in Erb. Critt. It. 360
I, n. 789. Sacc. Syll. IV, p. 742. — Hypophyllum, punctiforme,
atrum, effusum vel subcircinnatum; sporodochiis pulviniformibus,
fuscis, obscure cellulosi, cellulis periphericis subelongatis, articu-
latis sporiferis; conidiis sphaericis, fuligineo-fuscis, muriculatis, vix
translucidis, decussis, appendiculo diaphano notatis.

Hab. in foliis emortuis Mororum, Oldenico Vercelli Ital. bor.

APPENDIX

Dum Additamenta hæc sub prelo erant species, quæ nunc in calce traduntur, variis in libris prodierunt.

PYRENOMYCETÆ

- *1. **Podosphæra Aucupariæ** Eriksson Fungi par. scand. exsicc. n. 233. 7404
 — Hypophylla; mycelio evanido; peritheciis sparsis, spheroidis, minutis; appendicibus paucis, (4-6) diametrum perithecii ter superantibus, e parte superiore perithecii radiatim divergentibus.
Hab. in foliis Sorbi Aucupariæ ad Lilljans Ostra Stationem Stockholm Scand.
- *7. **Asterina pseudocuticulosa** Winter in Hedwigia 1886, p. 35. — 7405
 Peritheciis sparsis, epiphyllis, orbiculari-scutellatis, atris, contextu parenchymatico, fusco, sed non radioso, sine ostiolo et non dehiscentibus, irregulariter dilabentibus, 380-410 μ . diam., mycelio parco, hyalino, ex hyphis tenuissimis, repentibus, ramosis formato; ascis subglobosis vel subovatis, sessilibus, 8-sporis, 44-50 \approx 32-38; sporidiis conglobatis, oblongo-fusoideis, inæquilateralibus, et parum curvatis, utrinque attenuatis, hyalinis, medio uniseptatis et constrictis, 28-30 \approx 10,5.
Hab. in foliis vivis Coffeæ arabicæ in insula S. Thomé Afr. occ.
- *8. **Asterina circularis** Winter in Hedwigia 1886, p. 94. — Mycelio 7406
 plagas minutas, $\frac{1}{2}$ -1 mm. latas, epiphyllas, sparsas, atras, efficiente, ex hyphis repentibus, flexuosis, simpliciter ramosis, fuscis, formato; hyphopodiis plerumque alternantibus, profunde lobulato-crenatis, stipitatis, fuscis; peritheciis aggregatis, in orbem unicum vel in orbis duos concentricos dispositis, applanatis, rotundatis, e centro marginem versus, radiatim dehiscentibus, fusco-atris; ascis late ovatis vel piriformibus, sessilibus, octosporis, 36-44 \approx 23-30; sporidiis oblongo-clavatis, medio uniseptatis, constrictisque, utrinque rotundatis, cellula inferiori parum angustiori, fuscidulis, 15-16 \approx 8-9.

Hab. in foliis vivis plantæ herbacæe adhuc indeterminatæ in insula S. Thomè Afr. occ.

- * 13. **Asterina tenuis** Winter in Hedwigia 1886, p. 94. — Mycelio effuso, tenuissimo, ex hyphis repentibus, valde ramosis, anastomosantibus, flexuosis, torulosisque, fuscis formato, hyphopodiis numerosis, sessilibus vel brevissime stipitatis, fere palmatis, lobulis distinctis, plerumque 6 præditis, fuscis; peritheciis gregariis, sæpe 2-3 dense aggregatis et confluentibus, appanato-disciformibus, sæpe ambitu angulatis, a centro marginem versus radiatim dehiscentibus, fusco-atris, margine fimbriatis, 85-130 μ . diam.; ascis fere globosis, sessilibus, 8-sporis, 70-35 \approx 26-32; sporidiis oblongis, medio uniseptatis, constrictis, utrinque rotundatis, cellula inferiori parum angustiori, non raro subinæquilateralibus, fuscis, 16-18 \approx 8-9.

Hab. in foliis vivis arboris ignotæ in insula S. Thomè Afr.

- * 14. **Asterina (?) Mœsæ** Pat. in Rev. Myc. 1886, pag. 180. — Peritheciis punctiformibus, numerosis, superficialibus, globulosis vel depressis, subastomis, brunneis, hyphis radiantibus, ramosis, concoloribus, superficie foliorum adhærentibus cinctis; ascis cylindraceis, subsessilibus, paraphysibus filiformibus, parvis cinctis, 50-65 \approx 10-15, sporidiis cylindraceis, rectis, viridibus, 13-15 \approx 3-4, uniseptatis.

Hab. in foliis Ericacæe (Mœsa), Yunnan Sinarum (AB. DELAVAY).

- * 15. **Asterina (?) Barleriae** Pat. in Rev. Myc. 1886, pag. 180. — Peritheciis superficialibus, 1 mm. diam., nigris, globulosis, astomis, mycelio nullo; ascis latis, rotundatis, breve stipitatis, 50 \approx 23, paraphysatis; sporidiis octonis, primo hyalinis dein rufis, uniseptatis, 16 \approx 10.

Hab. ad nervos bractearum Barleriae, Yunnan Sinarum (AB. DELAVAY).

- * 28. **Asterina purpurea** Ellis et Mart. in Journ. of Myc. 1886, p. 128. — Peritheciis hypophyllis, convexo-scutellatis, sparsis vel gregariis, sæpe basim foliorum occupantibus, subastomis, radiato-cellulosis, 130-150 μ . diam., margine fimbriato, ex hyphis purpureo nigris, arcte superficie foliorum rufo-purpureo coloratorum adnatis; ascis obovatis, 30-35 \approx 18-22, octosporis; sporidiis stipitatis, ovato-oblongis vel ellipsoideo-oblongis, 12-16 \approx 5-6, hyalinis, endochromate tripartito dein cellula septo longitudinali imperfecto divisa.

Hab. in foliis vivis Oleæ americanæ, Florida Amer. bor.

- * 10. **Dimerosporium excelsum** Cooke in Grevillea XV, p. 17. — Ma-

culas radiantes, atras, orbiculatas, crustaceas, in foliorum pagina inferiore formans; peritheciis subglobosis, membranaceo-carbonaceis, 15 mm. diam., centro congestis; ascis clavatis, sessilibus, basi angustatis, octosporis; sporidiis ellipsoideis, uniseptatis, medio leniter constrictis, utrinque rotundatis, hyalinis, $12 \approx 4$.

Hab. in foliis emortuis *Knightsiæ excelsæ*, New Zealand Australiæ (COLENSO).

- * 10. **Dimerosporium Langloisii** Ell. et Mart. in Journ. of Myc. 1886, 7412 pag. 129. — Peritheciis gregariis, depresso sphaeroideis, rugosis, atris, subastomis, 112-120 μ . diam., mycelio ex hyphis brunneis, ramosis, formato, maculas parvas, obscure coloratas formante insidentibus, leniter sparsis in superiore pagina foliorum; ascis subsessilibus, oblongis, sæpe inæquilateralibus, 25-30 \approx 7-9, aparaphysatis; sporidiis distichis, clavato-oblongis, luteo-brunneis, 4-nucleatis, uniseptatis, vix ad septum constrictis, 9-10 \approx 3,5-4.

Hab. in foliis vivis *Diantheræ humilis*, Louisiana Amer. bor. — Perithecia contextu radiato-celluloso, subinde sporulas binucleatas, oblongo-cylindræas, 7-8 \approx 2, subhyalinas continentia.

- * 11. **Dimerosporium nimbosum** Ell. et Mart. in Journ. of Myc. 1886, 7413 pag. 125. — Mycelio hyphis, repentibus, brunneis, ramosis, ramis brevibus, erectis, conidia oblongo-clavata, 3-4-septata, brunnea, 35-40 \approx 6-8 gerentibus et hyphis sterilibus, formato, maculas orbiculares velutinas, $\frac{1}{2}$ -1 cm. latas, subinde confluentes, caulesque tegentes formante; peritheciis centro macularum gregariis, erumpentibus, conoideis, carbonaceo-membranaceis, rugosis, $\frac{1}{3}$ mm. d., subinde ostiolo imperfecte sulcato-striato, prominulo, papilliformi ornatis; ascis subcylindricis, 70-80 \approx 10-14, subsessilibus, copiose paraphysatis; sporidiis octonis, distichis, oblongo-cylindræis, 16-26 \approx 5-6, luteis, primo binucleatis, dein uniseptatis, ad septum vix constrictis.

Hab. in caulibus vivis *Smilacis*, Florida Amer. bor.

- * 12. **Dimerosporium xylogenum** Ell. et Ev. in Journ. of Myc. 1886, 7414 p. 102. — Peritheciis superficialibus, sparsis, depresso hemisphaericis, rugosis, $\frac{1}{6}$ -1 mm. diam., obscure ostiolatis; ascis obovatis, basi in stipitem brevem contractis, 35-40 \approx 20-24, aparaphysatis, octosporis; sporidiis oblongo-ellipsoideis, 1-septatis, granulosis, subhyalinis, 15-18 \approx 8.

Hab. in ligno putri *Salicis*, Louisiana Amer. bor. (LANGLOIS).

- * 1. **Meliola Spartinae** (Ell. et Ev.) Berl. et Vogl. *Dimerosporium* 7415 *Spartinae* Ell. et Ev. in Journ. of Myc. 1886. p. 102. — Mycelio

maculas minutas, 2-4 mm. longas, oblongas vel ellipsoideas, atras formante, ex hyphis sterilibus, primo subhyalinis, sed dein opacis, subnodulosis, erectis, simplicibus, septatis, 130-175 \approx 6-8, ex hyphis fertilibus, repentibus, pallide luteis, conidia fusoideo-cylindracea vel subfalcata, nucleata, 40-60 \approx 3 gerentibus composito; peritheciis inter hyphas steriles nidulantibus, atris, membranaceis, subovatis, $\frac{1}{1}-\frac{1}{3}$ mm. diam., sursum late pertusis; ascis clavato-cylindraceis, 75 \approx 15, paraphysibus imperfecte evolutis obvallatis, octosporis; sporidiis oblongo-cylindraceis, luteolis, vix curvulis, 3-4-nucleatis, dein uniseptatis, 18-20 \approx 4-5, demum imperfecte triseptatis.

Hab. in vaginis inferioribus emortuis *Spartinae polystachyæ*, Plaquemines Amer. bor. (LAGLOIS).

- * 2. **Meliola bicornis** Winter in Hedwigia 1886, pag. 99. — Mycelio plagas plerumque submagnas, usque 8 mm. latas, plus minusve irregulares, tenuissimas, atras, epiphyllas, sparsas vel effusas et confluentes formante, ex hyphis longissime repentibus, laxe ramosis, flexuosis et valde torulosis, atro-fuscis contexto; hyphopodiis numerosis, sæpe oppositis, plerumque subpiriformibus, brevissime stipitatis, sæpe parum curvatis, fuscis, aliis multo sparsioribus, ampulliformibus immixtis; setis erectis, numerosis, ad apicem plerumque breviter di-vel trichotomis, interdum sub apice cum ramulo brevissimo obsitis; peritheciis laxe gregariis, globosis, mox concavis, rugulosis, atris, 120-160 μ . diam.; ascis ellipticis vel elliptico-oblongis, sessilibus, vel brevissime stipitatis, 2-4-sporis, 50-60 \approx 21-28; sporidiis cylindraceis, vel cylindraceo-subclavatis, utrinque rotundatis, 4-septatis, ad septa parum constrictis, fuscidulis, 35-44 \approx 12-14.

Hab. in foliis vivis Leguminosarum in insula S. Thomé Afr. occ.

- * 4. **Meliola aciculosa** Winter in Hedwigia 1886, p. 98. — Mycelio epiphylo, rarissime etiam hypophyllo, plerumque longe lateque effuso, folium totum laxe obducente vel plagas limitatas, sparsas, minutas, rotundatas vel irregulares, 1-2 mm. latas, atras efformante; hyphis repentibus, parce remoteque ramosis, torulosis, flexuosisque, fuscis, hyphopodia, alternantia, subpiriformia, vel irregularia, sæpe truncata, integra seu parum lobata, stipitata, sæpe curvata, fusca gerentibus; setis erectis in mycelio nullis, e basi perithecorum autem 3-6-ortis, valde curvatis, simplicibus, acutis, fusco-atris, 10,5-12 μ . crassis; peritheciis sparsis v. parce aggregatis, globosis, demum concavis, rugosis, atris, 150-160 μ . diam.; ascis ellipticis,

vel ellipsoideo-oblongis, breviter stipitatis, 2-3-sporis, 43-46 \approx 19-32; sporidiis cylindraceutis, utrinque haud vel perparum attenuatis et late rotundatis, inæquilateralibus vel curvulis, 4-septatis, ad septa parum constrictis, fuscis, 30-37 \approx 10,5-14.

Hab. in foliis vivis Cucurbitacearum aliarumque plantarum in insula S. Thomè Afr. occ.

- * 5. **Meliola clavulata** Winter in Hedwigia 1886, p. 98. — Mycelio 7418
 plagas hypophyllas, sparsas, orbiculares, vel plus minusve irregulares, 1-3 mm. latas, atras, subcrustaceas efficiente, ex hyphis repentibus, flexuosis, torulosisque, valde ramosis, fuscis contexto; hyphopodiis plerumque alternantibus, capitatis ovatisve, sæpe parum curvatis, interdum subcrenatis, breviter pedicellatis, fuscis, aliis ampulliformibus, sparsis; setis erectis e mycelio ortis, numerosis, rectis, apicem versus plerumque parum sed distincte incrassatis, subclavatis, 7 μ . crassis; peritheciis gregariis, globosis, demum collapsis, cupuliformibus, atris, verruculosis, 150-180 μ . diam.; ascis elliptico-oblongis, stipitatis, 2-4-sporis, 50-60 \approx 21-33; sporidiis fere cylindraceutis, utrinque rotundatis, e latere visis parum curvatis, 4-septatis, ad septa constrictis, fuscis, 30-34 \approx 12-13.

Hab. in foliis vivis Convolvulaceæ cujusdam in insula S. Thomè Afr. occ.

- * 6. **Meliola Molleriana** Winter in Hedwigia 1886, p. 98. — Mycelio 7419
 plagas epiphyllas, dense sparsas, sæpe confluentes, rotundatas seu plus minusve irregulares, atras, 1½-2 mm. latas formante, ex hyphis repentibus, flexuosis, laxè ramosis, fuscis, hyphopodia capitata, plus minusve varieque lobata crenataque, alternantia, stipitata, fusca gerentibus, contexto; setis erectis in mycelio nullis; peritheciis gregariis, globosis, rugulosis, vertice non vel perparum impressis, ad basin nonnullis setis adscendentibus, sæpe curvatis, tenuibus, membrana crassa præditis, acutiusculis, fuscis cinctis, membranaceis, atris, 140-180 μ . diam.; ascis ellipticis vel ellipsoideo-oblongis, breviter pedicellatis, bisporis, 47-66 \approx 21-25; sporidiis cylindraceutis, utrinque rotundatis, 4-septatis, ad septa parum constrictis, fuscis, 36-42 \approx 13-14.

Hab. in foliis vivis Malvaceæ adhuc ignotæ in insula S. Thomè Afr. occ.

- * 7. **Meliola anastomosans** Winter in Hedwigia 1886, p. 96. — Mycelio 7420
 plagas minutas, ¼-½ mm. latas, sæpe confluentes, plerumque epiphyllas, sparsas vel dense stipatas, atras, rotundatas vel irregulares formante, ex hyphis repentibus, ramosis, valde anasto-

mosantibus, flexuosis, curvatisque, fuscis contexto; hyphopodiis alternantibus, capitatis, integris, stipitatis, aliis plerumque oppositis, ampulliformibus; peritheciis gregariis, globosis, demum impressis, et concavis, verruculosi, atris, 130-170 μ , diam.; ascis ellipticis seu elliptico-oblongis, breviter stipitatis, 2-4-sporis, 50-60 \approx 26-32; sporidiis cylindraceutis, utrinque rotundatis, e latere visis parum curvatis, 4-septatis, ad septa subconstrictis, fuscis, 33-35 \approx 10,5-12.

Hab. in foliis vivis Labiatarum (ut videtur) in insula S. Thomè Afr. occ.

- * 8. **Meliola conglomerata** Winter in Hedwigia 1886, p. 35. — Mycelio plagas, parvas, epiphyllas, sparsas, rotundatas seu parum irregulares, pulviniformes, atras, $\frac{1}{2}$ -2 mm. latas, efficiente, ex hyphis repentibus, ramosis, flexuosis, fuscis, hyphopodia dense stipata, plerumque alternantia, subglobosa vel late piriformia, pedicellata, recta vel parum inaequaliter gerentibus formato; peritheciis conglomeratis, globosis, mox impressis et concavo-umbilicatis, verrucis magnis, pyramidalibus dense obsitis, atris, 200-250 μ . latis; ascis ellipticis vel ellipsoideo-oblongis, substipitatis, 2-4-sporis, 58-74 \approx 28-35; sporidiis cylindraceutis, utrinque late rotundatis, haud attenuatis, 4-septatis, fuscis, 35-39 \approx 14-16. 7421

Hab. in foliis ignotis (arboris) in insula S. Thomè Afr. occ.

- * 10. **Meliola triloba** Winter in Hedwigia 1886, pag. 97. — Mycelio plagas minutas, plerumque epiphyllas, rarissime etiam hypophyllas, rotundatas vel irregulares, $\frac{1}{2}$ -3 mm. latas, atras, efficiente, ex hyphis repentibus, sublaxe ramosis (ramis elongatis, parum flexuosis), fuscis formato; hyphopodiis alternantibus, subpiriformibus, lobulis 3-4 distinctis praeditis, stipitatis, fuscis, aliis sparsis ampulliformibus mixtis; setis nullis; peritheciis gregariis, globosis, vix depressis, verrucis magnis, pyramidalibus obsitis, atris, 180-210 μ . diam.; ascis ellipticis vel elliptico-saccatis, breviter stipitatis, bisporis, 58-62 \approx 30-35; sporidiis cylindraceutis, utrinque late rotundatis, e latere visis parum curvatis, 4-septatis, fuscis, 36-41 \approx 16-17,5. 7422

Hab. in foliis vivis Cucurbitacearum in insula S. Thomè Afr. occ.

- * 11. **Meliola asterinoides** Winter in Hedwigia 1886, p. 96. — Mycelio plagas minutissimas, epiphyllas, sparsas, rotundatas, subpulvinatas, atras, $\frac{1}{4}$ -1 mm. diam, formante ex hyphis repentibus, ramosis subflexuosis, atro-fuscis, vix 7 μ . crassis, formato; hyphopodiis ovato-clavatis, fere sessilibus, integris, rarissime ampulli- 7423

formibus; peritheciis sæpe solitariis vel paucis, in centro plagarum aggregatis, depressis, ambitu parenchymatico, radiante, fusco, demum e centro marginem versus dehiscens, 180-270 μ . latis; ascis elliptico-oblongis, breviter stipitatis, bisporis, 38-42 \approx 17-18; sporidiis cylindræis, utrinque late rotundatis, 4-septatis, ad septa valde constrictis, cellula secunda sæpe parum latiori, fuscidulis, rectis, 26-30 \approx 9,5-10,5.

Hab. in foliis vivis Piperacæe cujusdam in insula S. Thomè Afr. occ.

- * 12. **Meliola stenospora** Winter in Hedwigia 1886, p. 97. — Mycelio 7124
 plagas parvas, 1-3 mm. latas, atras, rotundatas vel irregulares, amphigenas, plerumque sparsas, raro confluentes formante; hyphis repentibus, remotissime ramosis, sæpe valde flexuosis, fusco atris, 7 μ . crassis; setis erectis, numerosis, crassis, strictis, opace atris, simplicibus, acutis, 10-11 μ . crassis; hyphopodiis pro maxima parte laxè piriformibus, varie lobatis, rectis, rarius curvatis, stipitatis, fuscis, cum paucis ampulliformibus mixtis; peritheciis gregariis, globosis, demum concavis, rugosis, atris, 140-160 μ . diam.; ascis elliptico-oblongis seu obovatis, breviter stipitatis, 2-4-sporis, 50-58 \approx 26-28; sporidiis cylindræis, utrinque parum attenuatis, et rotundatis, curvulis, 4-septatis, fuscis, 35-44 \approx 9, 5-12.

Hab. in foliis vivis Piperacæe ignotæ in insula S. Thomè Afr. occ.

- * 30. **Meliola velutina** Winter in Hedwigia 1886, p. 97. — Mycelio 7125
 plagas, plerumque magnas, usque 15 mm. longas, sæpe confluentes, velutinas, atras, hypophyllas, irregulares efficiente, ex hyphis repentibus laxè remoteque ramosis, plus minusve flexuosis, torulosisque fuscis, formato; setis erectis numerosissimis, strictis, acutis, apicem versus parum sed distincte undulato-tuberculatis, fusco-atris, 8-8,5 μ . crassis; hyphopodiis sparsis, irregularibus, sæpe varie lobatis, crenatis plerumque curvatis, stipitatis, fuscis; peritheciis sparsis, depresso globosis, demum collabescens, umbilicatis et concavis, atris, 200-220 μ . diam.; ascis non visis; sporidiis subcylindræis, utrinque perparum attenuatis, fuscidulis, rectis, sæpe parum inæquilateralibus, sed non curvatis, 42-44 \approx 9,5-12.

Hab. in foliis emortuis Cannacæe cujusdam in insula St. Thomè Afr. occ.

- * 32. **Meliola? sordidula** (Lév.) Berl. et Sacc. *Sphaeria sordidula* 7126
 Lév. in An. Sc. Nat. 1863, pag. 296. — Maculis in pagina superiore orbicularibus, sparsis, plus minus latis, convexis, subtus,

concavis e peritheciis superficialibus asperis, fuliginosis vel nigris, sordidis, particulis epidermidis hinc inde obtectis, dein nudatis; peritheciis globosis, stipitatis atro-fuscescentibus, ostioliis minutis, vix papillatis; paraphysibus simplicibus, continuis; ascis clavatis; sporidiis octonis, fusiformi-abbreviatis, medio constrictis, subobtusis, 1-5-septatis, incoloribus, diametro sextuplo longioribus.

Hab. ad folia *Gyrinopseos* (?), S. Antonio, Boca del Monte Novæ Granat. (LINDLÉ).

RICHONIA Boud. in Rev. Myc. 1885, p. 224 (Etym. A. cl. *Richon* cui genus dicatum. — Perithecia semper repleta, firma, sparsa, superficialia, carbonacea, astoma, supra rotundata, subtus depressa intus grumosa. Ascii clavati, crassi, 2-6-spori, mox resoluti. Sporidia majora, didyma, loculis rotundatis, obtusis, ad septum constricta, primo levia, hyalina, guttulata, dein filamentosa, marcescentia, olivascens, denique maxima, aterrima, rugulosa et difformia. Paraphyses numerosæ, tenues ramosissimæ et intricatæ, ascos sporidiaque circumdantes. — Genus *Perisporiacearum* hypogæum «?», rhizophylum a genere *Zopfia* sporidiis filamentosis non appendiculatis et ascis clavatis omnino diversum.

1. **Richonia variospora** Boud. in Rev. Myc. 1885, p. 265, tab. LVI, 7127 fig. 1. — Peritheciis sparsis, magnitudine variis, 0,5-1 mm. diam., subnitidis rugulosis; ascis clavatis, ad basim vix attenuatis, apice rotundatis, 2-6-sporis, primo hyalinis, dein sporidiis fuscescentibus et tum resolutis, 100-150 \approx 20-35; sporidiis majoribus, dein maximis, primo inclusis, hyalinis, levissimis, medio septatis et constrictis, utrinque perfecte rotundatis, intus nucleis duobus oleosis, maximis fere omnino repletis, cum granulis minutis, ad septum sparsim positis, dein ascis detritis liberis, marcescentibus, paraphyses agglutinantibus, denique difformibus, aterrimis, granulosis et etiam hyalino-filamentosis, junioribus hyalinis, levibus, 35-45 \approx 20-22, statu medio olivascens et jam filamentosis, 45-50 \approx 25-35, statu extremo aterrimis, 60-70 \approx 45-50; paraphysibus ramosissimis, tenuibus, intricatis, non aut obscure septatis, intus vix granulosis.

Hab. frequens ad radices *Asparagi officinalis* ad latera viarum dejectas, Montmorency Galliæ.

- *3. **Valsa implicata** (Lév.) Berl. et Sacc. *Sphaeria implicata* Lév. in 7128 An. Sc. Nat. 1863, pag. 295. — Peritheciis globosis, aggregatis, ostioliis, promiulis, angulatis, in discum erumpentem, nigrum stipitatis; paraphysibus tenuissimis, muco involutis; ascis cylindrico-

clavatis, sporidiis octonis, cylindricis, utroque fine obtusis, curvatis, continuis, hyalinis.

Hab. in corticem arborum in Nova Granata (LINDIG).

6. **Eutypa heteracantha** (Ell. et Ev.) Sacc. *Calosphæria hylodes* Berl. 6255
et Vogl. p. 24. *Valsa hylodes* Ell. et Ev. Journ. of Myc. II, p. 40,
ex autopsia speciminum a cl. Ellis missorum teste cl. Prof. Sac-
cardo, huc spectat.

- *6. **Diatrypella hysteroioides** Ell. et Ev. in Journ. of Myc. 1886, 7439
p. 99. — Stromate erumpenti-tuberculiforme, prismatico, sæpe qua-
drisulcato et subcornuto, $1\frac{1}{2}$ -2 mm. diam., luteo sæpe elongato,
hysteriiformi. et $\frac{1}{2}$ -1 mm. diam., sursum rima longitudinali perith-
thecia *Hysterii* simulante; peritheciis 2-6 in quoque stromate, $\frac{1}{3}$ -
 $\frac{1}{2}$ mm. diam., contextu subtili, atro, coriaceo, sursum in collum
breve attenuatis, ostiolo stromatis superficiem perforante, minuto,
papilliformi, subinde conoideo terminatis; ascis clavato-cylindræcis.
basi attenuatis, pedicellatis, 100-115 \approx 10-12, p. sp. 75-80 μ . longa;
sporidiis numerosis, allantoideis, binucleatis, 6-7 \approx 1,5, luteolis.

Hab. in ramis decorticatis Populi Louisiana Amer. bor. (LAN-
GLOIS).

3. **Chætomium atrum** Link. — Sacc. Syll. I, pag. 221. *Var. distin-* 795
ctum Roum. in Rev. Myc. 1886, pag. 138. — Peritheciis solitari-
is, in lineas parallelas dispositis, quam in typo majoribus. — In li-
gno Populi loco hudo servato (ANGÉLE ROUMEGUÉRE).

- *9. **Chætomium delicatulum** Roum. in Rev. Myc. 1885, p. 22. — Pe- 7430
ritheciis solitariis, raro 2-3 gregariis, ovoideis, regularibus, nigris,
pilis simplicibus, ad basim perithecii brevibus, sursum longis, pe-
rithecii altitudinem æquantibus, parvis, ramosis, fuliginæis tectis;
ascis oblongo-ellipsoideis, regularibus. 45-50 \approx 6-7, breve stipita-
tis, octosporis; sporidiis subsphæroideis, 6-7 μ . diam., hyalinis.

Hab. in pulvere (de Scille galee). Seine-Inferieure Gallix (MAL-
BRANCHE). — Species sporidiis hyalinis a typo desciscens.

- *1. **Sordaria pilosa** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 141. 7431
— Peritheciis immersis, globoso-ovatis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., con-
textu sordide brunneo, ostiolo conico, pilis fuliginæis erectis, vulgo
cseptatis, 100 \approx 2,5 instructo donatis, confluentibus; ascis cuneifor-
mi-clavatis, apice fere truncatis, basim versus sensim attenuatis,
octosporis, 140-150 \approx 20-22, p. sp. 115-120, parce paraphysatis;
sporidiis mono-vel distichis, ovatis, 17-22 \approx 11-14, fuliginæis, 1-3-
guttulis præditis, denique subopacis, basi cauda hyalina, sporidii
dimidiam partem subæquante auctis.

Hab. in fimo Cuniculorum in pinetis, Gomzè Foret in Belgio. 7432

- *20. **Hypocopra dunarum** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 145. — Peritheciis sparsis, immersis, globosis, $\frac{1}{2}$ mm. diam., glabris, contextu membranaceo-coriaceo, badio-fusco, ostiolo brevi et crasso, emergente; ascis cylindraceutis, 200-220 \approx 30-35, apice truncatis membranaque leviter resupinata, basi in stipitem 50-70 μ . longum desinentibus, tetrasporis, raro 5-8-sporis, paraphysibus copiosis, filiformibus, ascos superantibus obvallatis; sporidiis monostichis elliptico-oblongis, primo fuliginis dein atro-opacis, circulo mucoso, hyalino, obvolutis, 40-50 \approx 20-24.

Hab. in fimo Cuniculorum in dunis prope Blankenberghe Belgii.

3. **Philocopra curvicolla** Wint. — Sacc. Syll. II, p. 250. *Var. penicillato-setosa* Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 145. — A typo differt ascis numerum majorem sporidiorum (256-512) continentibus, 210-230 \approx 90-110, ostiolo fasciculo setarum instructo, peritheciis minoribus, $\frac{1}{3}$ mm. diam., sporidiisque 14-17 \approx 9-10. 908

Hab. in fimo Cuniculorum, Forêt Gomzè Belgii.

- *4. **Philocopra pusilla** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 146. — Peritheciis exiguis, immersis, glabris, tenuiter membranaceis, pallide virescentibus; ascis cylindraceutis vel oblongis, brevis stipitatis, 80-90 \approx 20-24, polysporis; sporidiis (articulis) circa 512, ovato-subglobosis, melleis denique fuliginis, sine zona aut appendiculis, 3,5-4, vel 3-4 μ . diam. 7433

Hab. in fimo Cuniculorum, Angleur Belgii.

- *3. **Rosellinia Colensoi** Cooke in Grevillea XV, p. 16. — Peritheciis aggregatis, superficialibus, subglobosis setis rigidis, fusciscentibus tectis, papillatis, ascis clavatis, octosporis; sporidiis inordinatis, ellipticis, fuscis, continuis. 7434

Hab. in ligno emortuo, New Zealand Australiae (COLENZO).

- *9. **Anthostomella Molleriana** Winter in Hedwigia 1886, p. 101. — Peritheciis sparsis, immersis, globosis, ostiolo brevi, conico epidermidem circa ostiolum parum infuscatam perforantibus, atris, glabris, 250-310 μ . latis; ascis subclavatis vel oblongo-cylindraceutis, sessilibus, vertice rotundatis, 8-sporis, 90-96 \approx 16-18; sporidiis in ascis parte inferiore monostichis, in superiore parte distichis, oblongo-cymbiformibus, inæquilateralibus vel parum curvatis, utriusque rotundatis, appendicula brevi, subconica præditis et mucos hyalino, angusto obvolutis, guttulis 2 oleosis repletis, olivaceo-fuscis, 17-21 \approx 7; paraphysibus indistinctis. 7435

Hab. in foliis aridis Musæ in insula S. Thomæ Afr. occ.

- * 1. **Anthostoma endoxyloides** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7436
p. 146. — Stromatibus immersis, striæformibus, plus vel minus elongatis, ligni superficie paulo denigrata et substantia, ejus vix mutata formatis, nec nigro-limitatis; peritheciiis profunde immersis, monostiche aggregatis, ovoideis, 400-450 \approx 500, coriaceis, collo longiuseulo, 250 μ . crasso, superne rotundato, poro minuto pertuso, protuberante instructis; ascis anguste clavatis, longissime pedicellatis, apice obtusis, 100-130 \approx 7-8, p. sp. 50-60, octosporis; paraphysibus filiformibus, ascos superantibus cinctis; sporidiis distichis vel in asci parte inferiore monostichis, fusco-olivaceis, oblongis, apice obtusis, basi truncatis et appendiculo hyalino, verruciformi auctis, inæquilateralibus vel curvulis, 10-13 \approx 3,5-4.

Hab. in ligno putrido, Beustays in Belgio.

- * 5. **Xylaria Trianæ** Lév. in Ann. Sc. Nat. 1863, pag. 292. — Fasciculata; stromate clavato, sursum obtuso, 4-5 mm. alto, nudo, longitrorsum rimuloso, nigro, intus albo, peritheciiis prominentibus, globosis tuberculoso, ostiolis punctiformibus, vix papillatis; stipe glabro, tenui, nudo, nigro; paraphysibus filiformibus, simplicibus, continuis; ascis clavatis, sporidiis octonis, uniserialibus, elongatis, ventricosis, obtusis, curvatis, diametro quintuplo longioribus. 7437

Hab. ad truncos, Bogota, Acerradero Novæ Granatæ (LINDIG). — Species insignis ob vegetationis modum, cæspitulos ex 12-15 individuis compositos formans.

- * 6. **Xylaria cylindrica** Lév. in Ann. Sc. Nat. 1868, pag. 292. — Sparsa vel subfasciculata; clavula cylindrica obtusa abrupte stipitata, nigra, 20 \approx 8, mm., extrinsecus longitrorsum rimulosa; peritheciiis globosis, minime prominulis, ostiolis punctiformibus, distantibus, vix conspicuis; paraphysibus filiformibus, continuis; ascis clavatis, sporidiis octonis, uniserialibus, fusiformi-abbreviatis, obtusis, rectis vel curvulis, subopacis, diametro 4-5 longioribus. 7438

Hab. ad truncos, Villeta Alto del Trigo Novæ Granatæ (LINDIG).

- * 134. **Xylaria melanura** Lév. in Ann. Sc. Nat. 1863, p. 294 (*Chaenocarpus melanurus* Lév.). — Stromate verticali, setaceo, 20-30 mm. alto, apice acuto, sterili, nigro; peritheciiis superficialibus, discretis globosis, inæqualibus, nigris, ostiolis papillatis; paraphysibus filiformibus, continuis; ascis cylindricis, sporidiis octonis, uniserialibus, elongatis, ventricosis, continuis, obtusis, rectis, raro curviusculis, diametro quintuplo longioribus. 7439

Hab. ad truncos arborum exsiccatos, La Mesa, San Antonio Novæ Granatæ (LINDIG).

- * 135. **Xylaria metæformis** Lév. in Ann. Sc. Nat. 1863, pag. 293. 7440
 — Stromate ovato-oblongato 10-20 mm., apice sterile, acuto, flaviusculo e cinereo nigro, longitrorsum rimuloso; stipite cylindrico brevi hirtio nigro; peritheciis globosis, latitantibus, intus fluxilibus, ostiolis sparsis punctiformibus; paraphysibus filiformibus, interdum bifidis; ascis linearibus; sporidiis subelongatis, utrinque obtusis, uniserialibus, curvatis, subopacis, bilocularibus «??».

Hab. ad truncos, Bogota, Acerradero Novæ Granatæ (LINDIG).

- * 136. **Xylaria monticulosa** Lév. in Ann. Sc. Nat. 1863, pag. 293. — 7411
 Stromate ovato-elongato, apice sterili, 0,010-15 mm. alto, acuto, cinereo-nigricante, e conceptaculis globosis, prominentibus, tuberculoso, stipite longo subcylindrico, filis longis, nigris, obsito; ostiolis punctiformibus, sparsis, vix conspicuis; paraphysibus filiformibus, continuis; ascis obovato-cylindricis, sporidiis octosporis, uniserialibus, elongatis, ventricosis, obtusis, curvulis, subopacis, diametro quadruplo longioribus.

Hab. ad truncos in sylva Bogota, Acerradero Novæ Granatæ (LINDIG).

128. **Hypoxylon bicolor** B. et C. — Sacc. Syll. I, p. 381, Ell. et Ev. in 1461
 Journ. of Myc. 1886, pag. 85. — Stroma tuberculari-hemisphericum, circiter 2 mm. diam., superficie undulata atque ostiolis punctulata, ut in *H. punctulato*, rufulum vel subpurpureum; perithecia subperipherica, immersa, circiter 1 mm. diam.; asci acute cylindraceuti, basi attenuati, circiter $100 \approx 6$; sporidia monosticha, subnavicularia vel acute ellipsoidea et inæquilaterialia, primo pallide lutea dein opaca, 1-2-nucleata, $9-12 \approx 3,5-4,5$ utrinque subacuta.

Hab. in ramulis emortuis Quercus virescentis in Amer. bor. Affine *H. fusco*.

- * 6. **Nummularia discoidea** (Lév.) Berl. et Sacc. *Sphæria discoidea* 7412
 Lév. in Ann. Sc. Nat. 1863, pag. 295. — Stromate immerso, erumpente, effuso, disciformi, applanato, carbonaceo, nigro; peritheciis magnis, verticalibus, obtectis, collis brevibus; ostiolis conicis prominentibus, nitidis, fossula orbiculari circumadatis; paraphysibus filiformibus continuis; ascis cylindricis, sporidiis octonis, uniserialibus, ellipsoideis, obtusis, continuis, subopacis, diametro quadruplo longioribus.

Hab. ad truncos vetustos siccos, Tequendarna Novæ Granatæ (LINDIG).

- *9. **Læstadia Pseudoplatani** Pass. in Rev. Myc. 1886, pag. 205. — Peritheciis epiphyllis, minutis nigris, discoideo-depressis, subgrogariis; ascis oblongis vel claviformibus, 25-37 \approx 10, octosporis; sporidiis di- tristichi, navicularibus, continuis, euucleatis, 7,5 \approx 2,5.
Hab. in foliis exiccatis Aceris Pseudoplatani, Saintes Galliae.
- *58. **Læstadia filicina** Winter in Hedwigia 1886, pag. 100. — Peri- 7443
theeciis epiphyllis, dense sparsis, immersis, epidermide emisphaerice elevata tectis, globosis, ostiolo minutissimo, vix perspicuo, atris, crasse membranaceis, subnitidis, 100-120 μ . diam.; ascis subcylindrico-clavatis, i. e. e basi stipitiforimi sursum parum, sed usque ad verticem, incrassatis, 8-sporis, vertice obtuso, 52-58 \approx 12; sporidiis subdistichis, oblongis, medio inflatis, utrinque attenuatis, rotundatis et appendiculo brevi, plerumque conico, hyalino praeditis, saepe parum curvatis, chlorino-hyalinis, unicellularibus, 14-16 \approx 5; paraphysibus non visis.
Hab. in foliis vivis Filicum in insula S. Thomé Afr. occ.
- *20. **Physalospora Psammæ** Oud. Contr. Fl. Myc. Pays-Bas. XI, p. 7444
20. — Peritheciis epiphyllis, sparsis, atris, glabris, membranaceis, immersis, prominente tantum ostiolo, brevi, papilliformi; ascis cylindraceis vel clavatis, sursum rotundatis, pedicello brevi, obliquo fulcratis, 70-80 \approx 12-14; sporidiis vulgo distichis, semper hyalinis, ellipticis vel ovatis, continuis, 12-14 \approx 5, primitus vacuolis 2 ornatis; paraphysibus numerosis, filiformibus, supra ascos parum eminentibus.
Hab. in foliis Psammæ litoralis, Pulten Hollandiae.
- *13. **Trichosphæria Rostrupii** Berl. et Vogl. *Trichosphæria* sp. Ro- 7445
strup. Unders. Svamp. Rhizoct. pag. 19, tab. I, fig. 6-8. — Peritheciis purpureo-brunneis, pseudo-parenchymaticis, circularibus, setis, rigidis, concoloribus, radiantibus, basi septatis, apice acutis, 100 \approx 5 ornatis; ascis oblongis, sursum acutis, basi in pedicellum, breve desinentibus, 45-50 \approx 8-10, octosporis, aparaphysatis; sporidis inordinate distichis, allantoideis, utrinque uniguttatis, rectis vel curvulis, 14-18 \approx 5.
Hab. in radicibus Ligustri in Islandia.
- GIBELLIA** Sacc. in Misc. Myc. II, p. 12 (Etym. a præclaro botanico prof. JOSEPHO GIBELLI de metagenesi Pyrenomycetum deque pathologia mycogena optime merito. — Stromata subcutaneo-erumpentia, e basi definita depresso-pulvinata, atra, intus pallidiora, superficie ostiolis vix prominulis punctulata. Perithecia globulosa, monosti-

cha. Asci tereti-fusoidei, sessiles, spurie paraphysati, lumine apice bifoveolati, octospori. Sporidia globoso-ellipsoidea, continua, hyalina. — *Dothideaceas*, præsertim *Mazzantiam*, fere imitatur, sed perithecia vera adsunt. Inter *Sphaeriaceas hyalosporas* inter *Botryosphaeriam* et *Cryptosporellam* locandum.

1. **Gibellia dothideoides** Sacc. et Berl. Misc. Myc. II, n. 23. — Stro- 744
matibus e basi elliptica depresso-pulvinatis, laxe gregariis, 2 ≈ 1-1,5
mm. d., epidermide secedente demum nudatis, atris, intus pallidio-
ribus, ostioliis leviter prominulis, remotiusculis, punctiformibus; pe-
ritheciis globulosis, monostichis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., in quoque stro-
mate 6-10; ascis tereti-fusoideis, sessilibus, apice obtusis lumine-
que bifoveolatis, 90-100 ≈ 20-25, paraphysibus spuriis, guttulis
obvallatis, octosporis; sporidiis distichis vel oblique monostichis e
globoso-ellipsoideis, 18-20 ≈ 12-14, bi-pluriguttulatis, hyalinis.

Hab. in ramis corticatis lignosis ignotæ speciei in M. Moon
Australiæ. — A *Bagnisiella Tamaricis* et *B. Illicis*, quæ *Botryo-*
sphaeriam propius spectant, omnino diversa.

2. **Sphærella maculiformis** (Pers.) Auersw. Sacc. Syll. I, pag. 477. 1820
Var. Pseudoplatani Pass. in litt. Brun. in Rev. Myc. 1886, p. 205.
— Peritheciis subglobosis, minutis, valde appropinquatis, hypophyl-
lis; ascis numerosissimis, cylindræis, 50 ≈ 5; sporidiis?....

- *3. **Sphærella syconophila** Winter in Hedw. 1886, p. 101 (*ficophila*). 744
— Peritheciis in macula exarida, permagna, usque 35 mm. lata, ir-
regulari, fusca, late viridi cincta, indeterminata, hypophylla grega-
riis, immersis, globosis, poro punctiformi pertusis, membranæis,
atris, demum emisphæricæ prominulis, 60-70 μ . latis; ascis obcla-
vatis, e basi crassiori sursum parum attenuatis, sessilibus, octospo-
ris, 24-26 ≈ 8; sporidiis conglobatis, fusoideis, utrinque attenuatis,
sed rotundatis, inæquilateralibus et interdum parum curvatis, me-
dio 1-septatis, haud constrictis, hyalinis, 12 ≈ 2.

Hab. in foliis Fici cujusdam in insula S. Thomè Afr. occ.

- *4. **Sphærella melanococca** (Lév.) Berl. et Sacc. *Sphaeria melano-* 744
cocca Lév. in Ann. Sc. Nat. 1863, p. 296. — Peritheciis epiphyll-
lis, gregariis, discretis, erumpentibus, superficialibus, globosis, de-
pressis, levibus, nigris, opacis, intus albis, ostioliis papillatis; para-
physibus raris, linearibus, continuis; ascis clavato-cylindræis, spo-
ridiis octonis, ovato-elongatis, medio constrictis, bilocularibus,
hyalinis.

Hab. ad folia *Stylosanthis Guyanensis* in Nova Gra-
nata (LIXDIA).

- *5. **Sphærella Sapindi** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 7449
 — Peritheciis epiphyllis, globosis, prominulis, $\frac{1}{3}$ mm. diam., sparsis, maculis rotundis, definite marginatis, albis, 3-4 mm. diam., insidentibus; ascis oblongo-cylindraceis, $60 \approx 12$; sporidiis distichis, subellipsoideis, utrinque acutiusculis, 1-septatis, ad septum vix constrictis, $16 \approx 4$, hyalinis.

Hab. in foliis vivis Sapindi marginati, Missouri Amer. bor. (B. T. GALLOWAY).

- *6. **Sphærella Patouilliardi** Sacc. in litteris. — Maculis submarginatilibus, candicantibus, nitidis, amphigenis; peritheciis hypophyllis, epidermide tectis, gregariis, punctiformibus, globoso-depressis, minutis, 150-200 μ . diam., poro pertusis, contextu indistincto, olivaceo-fusco; ascis dense fasciculatis, tereti-clavatis, breve stipitatis, non vel obsolete paraphysatis, $70-80 \approx 12$, octosporis; sporidiis distichis, fusoides, leniter curvis, utrinque obtusiusculis, 1-septatis (vel saltem plasmate bipartito), $20-25 \approx 3-4$, hyalinis. 7450

Hab. in foliis Buxi sempervirentis, Eaux Bonnes in Pyreneis (PATOULLIARD).

51. **Sphærella salicicola** (Fr.) Fuck. — Sacc. Syll. I, pag. 487. *Var.* 1869
borealis Karst. in Hedw. 1884, p. 3. Ascis $50-65 \approx 10-12$; sporidiis $9-12 \approx 2-4$. — Ad folia emortua Salicis phylicifoliæ, S. Capræ et S. auritæ in Fennia vulgatissima.

- *62. **Sphærella Clematidis** Oud. Contr. Fl. Myc. Pays-Bas XI, p. 21. 7451
 — Peritheciis sub epidermide nidulantibus, dense sparsis, maturis atris, poro minuto pertusis, $\frac{1}{10}$ mill. latis, parenchymatoso-membranaceis; ascis clavatis, paulum curvatis, $60-70 \approx 14$; sporidiis hyalinis, utrinque obtusissimis, prope medium 1-septatis, $14 \approx 5$ tristichis (?).

Hab. in caulibus Aristolochiæ Clematidis, prope Harlem Hollandiæ.

- *64. **Sphærella Cynanthi** Pat. in Rev. Myc. 1886, p. 180. — Peritheciis minutis, numerosis, nigris vel brunneo-rufis; ascis ovoideis, $33 \approx 20$ sessilibus; sporidiis uniseptatis, hyalinis, $13 \approx 5$, demum viridulis, uno apice attenuatis. 7452

Hab. in caulibus emortuis Cynanthi, Yunnan Sinarum (AB. DELAVAY).

- *112. **Sphærella Weinmanniæ** Cooke in Grevillea XIV, p. 130. — 7453
 Epiphylla; peritheciis gregariis, subglobosis, atris, semiimmersis, punctiformibus, pertusis; ascis clavatis; sporidiis lanceolatis, uniseptatis, $15-18 \approx 4$, hyalino-luteolis.

Hab. in foliis emortuis *Weinmanniæ racemosæ*, New Zealand Austral. (COLENSO).

- * 115. **Sphærella Mariæ** Sacc. et Bomm. in Bull. Soc. R. Bot. Belg. 7454
1886, p. 173. — Peritheciis innatis, sparsis, numerosissimis, nigris, epiphyllis, prominentibus, 90-120 μ . diam.; ascis cylindraceo-claviformibus; sporidiis distichis, hyalinis, elongatis, uniseptatis, loculis inæqualibus, 4-guttulatis, ad septum constrictis, 14-18 \approx 4,5-5.

Hab. in foliis emortuis *Digitalis luteæ*, Hastières Belgii. — Affinis *Sph. silvaticæ*.

- * 165. **Sphærella granulata** Ell. et Ev. in Journ. of Myc. 1886, p. 102. 7455
— Dense gregaria, maculas definite limitatas occupans; peritheciis minutis, $\frac{1}{6}$ mm. diam., epidermide radiatim rupta et perithecia ostendente, non nigrescente tectis, atris, ostiolo papilliformi subprominulo donatis, nucleo albo farctis; ascis subcylindraceis, circiter 70 \approx 7, sessilibus, aparaphysatis, octosporis; sporidiis distichis, fusiformibus, vix curvulis, 20-23 \approx 3-3,5, hyalinis, primo granulosus dein uniseptatis.

Hab. in caulibus emortuis *Baptisiæ tinctoriæ*, Newfield Amer. bor. socia *Sphærella baptisæcola*.

- * 118. **Sphærella sabaligena** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 7456
— Peritheciis gregariis, 100-125 μ . diam., cuticula cinerescente, vix rupta tectis; ascis subovatis, 22-25 \approx 12-15; sporidiis stipatis, oblongo-clavatis, 1-septatis, ad septum constrictis, 10-12 \approx 3, 5-4, subhyalinis.

Hab. in foliis emortuis *Sabalæ Palmetto* in America boreali (LANGLOIS).

- * 123. **Sphærella Aristoteliæ** Cooke in Grevillea XV, p. 16. — Ma- 7457
culis epiphyllis, pallidis, orbicularibus, late fusco-cinctis; peritheciis minutis, immersis, membranaceis, globoso-depressis, perforatis; ascis clavatis, octosporis; sporidiis cylindraceo-ellipsoideis, utrinque rotundatis, uniseptatis, vix constrictis, 18-20 \approx 4.

Hab. in foliis vivis *Aristoteliæ racemosæ*, New Zealand Australiæ (COLENSO).

- * 210. **Sphærella subcongregata** Ell. et Ev. in Journ. of Myc. 1886, 7458
p. 101. — Peritheciis sparsis, depresso globosis, $\frac{1}{6}$ mm. diam., cuticula nigrescente, ostiolo minuto perforata tectis; ascis oblongis, sessilibus, circiter 35 \approx 7; sporidiis distichis vel stipatis, hyalinis fusiformi-oblongis vel clavato-oblongis, 1-septatis, 9-11 \approx 2,5.

Hab. in caulibus emortuis *Smilacis*, Newfield Amer. bor. socia *Diplodina Smilacis*.

- *240. **Sphærella Tassiana** De Not. — Sacc. Syll. I, p. 530. *Var. rupe-* 2058
fortensis Pass. in litt. Brun. in Rev. Myc. 1886. p. 205. Ascis oblongis, 37 \approx 12; sporidiis inordinatis, oblongis, hyalinis, 1-septatis. — In foliis emortuis *Typhæ latifoliæ* in Horto botanico Rochefort Galliæ.

- *30. **Didymella prominens** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 719
 — Peritheciis erumpenti-superficialibus, sparsis, ovato-hemisphaericis, $\frac{1}{4}$ mm. diam., atris, rugosis, ostiolo prominulo, tuberculiformi-conoideo vel breviter cylindraceo, levi donatis; ascis clavato-cylindraceis, subsessilibus, 40-45 \approx 6-7, paraphysisibus filiformibus cinctis, octosporis; sporidiis subfusoides vel cymbiformibus, 1-septatis, hyalinis, 10-12 \approx 3-4, ad septum vix constrictis.

Hab. in caulibus herbaceis emortuis *Ambrosiæ trifidæ* in America boreali (LANGLOIS).

- *31. **Gnomonia Gei** Pat. et Doass. Tab. An. Fung. Fasc. IV, p. 211. 7400
 fig. 495. — Peritheciis sparsis, epidermide tectis, ostiolo filiformi, valde elongato præditis; ascis brevibus, sessilibus, 26 \approx 5, sursum truncatis; paraphysisibus nullis; sporidiis bacillaribus, acicularibus, 1-septatis, septo vix constrictis, hyalinis, 12-14 \approx 1.

Hab. in caulibus *Gei pyrenaici*, Les Eaux Bonnes Galliæ.

- *13. **Melanopsamma cupressina** Ell. et Ev. in Journ. of Myc. 1886, 7461
 p. 103. — Peritheciis superficialibus, gregariis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam. vel elongatis et subhysterioides, rugosis, carbonaceo-membraneis, sursum poro late pertusis, (verisimiliter primo ostiolo prominulo donatis); ascis clavato-cylindraceis, 70-75 \approx 10-12, paraphysisibus filiformibus obvallatis, octosporis; sporidiis hyalino-luteolis, clavato-oblongis, 1-septatis, circiter 12 \approx 4.

Hab. in ligno dealbato *Cupressi* in America bor. (LANGLOIS). 7462

- *31. **Venturia palustris** Sacc. Bomm. et Rouss in Bull. Soc. R. Bot. Belg. 1886, p. 172. — Peritheciis epiphyllis, sparsis, subsuperficialibus, sphaeroideis vel subsphaeroideis, $\frac{1}{10}$ mm. diam., nigris pilis variis, brevibus ornatis, macula brunneo-purpurea insidentibus; ascis subsessilibus, curvatis, 45-51 \approx 9, centro inflatis, utrinque attenuatis; sporidiis hyalinis, irregulariter didymis, subfusoides, 4-guttulatis uni-vel subbiseriatis, septo leniter constrictis, 12-15 \approx 5.

Hab. in foliis languescentibus *Comari palustris*, Ottignies Belgii. — A *V. Potentillæ* macula brunneo-purpurea, ascis fusiformibus, sporidiis hyalinis præcipue differt.

- *34. **Venturia Turfosorum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7463
p. 149. — Peritheciis sparsis, superficialibus, subovatis, 80-100 μ .
diam., membranaceis, contextu fuligineo, ostiolo minuto, obtuso ob-
scuriori, setulis plerumque curvatis, basi incrassatis, continuis, 55-
70 \approx 3,5, laxe vestitis; ascis obpiriformibus, breve stipitatis, octo-
sporis, 22 μ . latis; sporidiis ovatis, bilocularibus, ad septum con-
strictis, hyalinis, 12-14 \approx 6-7.

Hab. supra Sphagna siccitate emortua Tilff in Belgio.

- *1. **Endothia Parryi** (Farlow) Cooke in Grevillea XIII, p. 102, *Do-* 7464
thidea Parryi Farlow in litteris. — Stromatibus pulvinate erump-
pentibus; peritheciis numerosis, concentrice aggregatis, fuscis, epi-
dermide cinnabarina cinctis; ascis lineari-clavatis, 76-110 \approx 16-20,
aparaphysatis; sporidiis octonis, irregulariter subdistichis, hyalinis,
20-26 \approx 5-7, uniseptatis, ellipsoideis, subacutis, parce constrictis.

Hab. in Agave Shawii, S. W. States Americae bor.

- *1. **D. Chorostate Gladioli** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 7465
— Peritheciis matrice immersis, epidermide nigrescente tectis, ma-
culas albas, definite limitatas, 2-3 mm. long., subinde confluentes et
tum 1 cm. vel amplius longas occupantibus, circiter $\frac{1}{4}$ mm. diam.,
parcis, saepe 1-2 in quaque macula, subinde etiam 6-8, ostiolo
setoso donatis; ascis stipitatis, p. sp. circiter 40 \approx 6-7; sporidiis di-
stichis, subfusioideis, 7-10 \approx 2,5, binucleatis, demum 1-septatis, hya-
linis.

Hab. in caulibus emortuis Gladioli, Louisiana Amer. bor.
(LANGLOIS).

33. **D. Chorostate leiphæma** (Fr.) Sacc. Syll. I, p. 615. *Var. major* 2685
Brun. in Rev. Myc. 1886, p. 205. — Ascis 110-120 \approx 10-12; spo-
ridiis 20-22 \approx 4-5. In lignis vetustis Quercus pr. Saintes Galliae.

- *153. **D. Euporthe Chionanthi** Brun. Champ. Nouv. obs. Env. Saint. 7466
II, p. 4. — Stromate parvo, oblongo vel elongato, in ramis de-
corticatis effuso, nigro superficiem maculante, linea atra in lignum
penetrante limitato; peritheciis nigris, gregariis, ligno immersis,
globulosis, ostiolo vix erumpente donatis; ascis fusioideis, 52-70 \approx
7-8, octosporis; sporidiis distichis, oblongo-fusioideis, 3-septatis,
«an rite?» non vel vix medio constrictis, hyalinis, 12 \approx 3.

Hab. in ramis emortuis Chionanthi virginicae, Saintes
Galliae.

262. **D. Tetrastaga exasperans** Nitschke. — Sacc. Syll. I, pag. 686. 2614
Var. santonensis Pass. in litt. Brun. in Rev. Myc. 1886, p. 205.
— Peritheciis corticolis, in stromate pustuliformi, 2-3-aggrega-

tis, vix erumpentibus; ascis oblongo-claviformibus, sæpe basi incurvatis, attenuatis, paraphysibus gracilibus, longioribus cinctis, 50-72 \approx 8-5, octosporis; sporidiis distichis, fusoideis, 1-septatis, vix constrictis, hyalinis, loculis biguttulatis, obscure septatis, 15 \approx 5.

Hab. in ramulis emortuis *Betulae* albæ, *Saintes* Galliæ.

- * 5. **Didymosphæria pardalina** Ell. et Ev. in Journ. of Myc. 1886, 7467
p. 102. — Peritheciis 4-6 gregariis, maculis suborbicularibus, vel ellipsoideis, atris, 2-4 mm. diam. insidentibus vel confluentibus, matrice omnino immersis, $\frac{1}{2}$ mm. diam., coriaceis, ostiolo minuto, punctiformi donatis, epidermidem non elevantibus; ascis cylindraceis, 150-200 \approx 12-15; sporidiis monostichis, oblongo-cylindraceis, olivaceo-brunneis, 1-septato-constrictis, vix curvis, utrinque obtusis, 22-30 \approx 8-10.

Hab. in caulibus emortuis *Spartinae* polystachyæ in America boreali (LANGLOIS).

- * 12. **Didymosphæria longipes** Trabut. in litt. — Peritheciis sparsis, 7468
epidermide circa ostiolum nigrescente tectis, prominulis, globoso-conoideis, atris, nitentibus, majusculis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., vertice albo punctatis, poro pertusis; ascis cylindraceis, longissime pedicellatis, apice rotundatis, foveolatisque, pedicello subinde curvulo, vel flexuoso, 80-100 μ . longo, paraphysatis, octosporis, 180-200 \approx 12; sporidiis recte vel oblique monostichis, subinde transverse dispositis, ovoideis, septo constrictis, loculo superiore sæpe crassiore rotundatoque, inferiore vero subinde minore, subconoideo, fuliginis, 14-18 \approx 8-9.

Hab. in *Agave americana* in Algeria (TRABUT).

- * 1. **Massariella didymopsis** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7469
p. 151. — Peritheciis sparsis, corticulis, globoso-depressis, $\frac{1}{3}$ mm. diam., peridermio nigrificato connexis; ostiolo brevi erumpente; ascis cylindraceis, breve stipitatis, paraphysibus ramulosis, obvalatis, jodii ope non cærulescentibus, octosporis, 145-160 \approx 17-20; sporidiis monostichis, ellipsoideis, uniseptatis, constrictis, loculis juxta septum guttulatis, olivaceo-fuscis, strato mucoso obvolutis, 20-25 \approx 11-12.

Hab. in ramulis *Sarothamni scoparii*, Gomzè Belgii.

- * 23. **Amphisphæria subiculosa** Ell. et Ev. in Journ. of Myc. 1886, 7470
p. 103. — Peritheciis superficialibus, gregariis, depresso globosis, $\frac{1}{3}$ mm. diam., brunneo-atris, rugosis, sursum sublucidis; ostiolo radiato-sulcato, non prominulo præditis, mycelio byssino, brunneo, repente, late effuso insidentibus; ascis cylindraceo-clavatis, 90-100

≈ 12-15, copiose paraphysatis; sporidiis distichis, oblongis, pallide brunneis, 1-septatis ad septum leniter constrictis, utrinque obtusis, binucleatis, 15-10 ≈ 4-5.

Hab. in Populo (poplar) decorticato, in America boreali (LANGLOIS).

- *25. **Amphisphæria lamprostoma** Pass. in litt. Martelli in Flor. Bog. p. 143. — Peritheciis sparsis, superficialibus, vel vix insculptis, subglobosis, atro-opacis, ostiolo papillato, nitido; ascis cylindraceo-subclavatis; paraphysatis, octosporis, 70 ≈ 7,5; sporidiis monostichis, ellipsoideo-oblongis, medio septatis, non constrictis, loculis subæqualibus, flavo-fuscis, 10-12 ≈ 5.

Hab. in corticibus arborum annosarum, Keren Abyssiniæ (BECCARI).

- *29. **Amphisphæria Eduardi** Pass. in litt. Mart. in Fl. Bog. p. 141. — Peritheciis peridermio insidentibus, sparsis vel aggregatis, hemisphæricis, papillato-ostiolatis, carbonaceis; ascis oblongis, paraphysatis, attenuato-stipitatis, octosporis, 100 ≈ 15; sporidiis distichis fusiformibus, utrinque acutis, medio septatis et constrictis, loculis subæqualibus, sæpe guttulatis, luteo-fuscidulis, 20-22,5 ≈ 7,5.

Hab. in corticibus lichenosis, Keren Abyssiniæ (BECCARI).

- *30. **Amphisphæria biocellata** Pass. in litt. Martelli in Flor. Bog. pag. 143. — Peritheciis ligno insculptis, ostiolo obtuso, emerso, oblongis, umbrinis; ascis cylindraceis, basi angustatis, sessilibus, paraphysibus filiformibus etiam duplo superatis, octosporis, 45-60 ≈ 7,5; sporidiis oblique monostichis, ellipsoideis, ad septum non vel vix constrictis, loculis guttulatis, 10-12,5 ≈ 5, castaneo-fuscis.

Hab. in lignis nudis lichenosis, pr. Keren Abyssiniæ (BECCARI).

- *1. **Rhyncostoma Beccarianum** Pass. in litt. Martelli in For. Bog. p. 141. — Peritheciis globosis, atris, basi ligno insculptis, in rostrum cylindricum, æquilongum, rectum, apice truncatum, albo-marginatum et centro perforatum productis; ascis numerosis, cylindraceis, octosporis, 60 ≈ 5; paraphysibus filiformibus, tenuibus, superantibus obvallatis; sporidiis oblique monostichis, interne fuscis, ellipsoideis, obscure septatis, 7,5 ≈ 4,5-5.

Hab. in ligno denudato sicco, Keren Abyssiniæ (BECCARI).

- *1. **Delitschia lignicola** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 151. — Peritheciis plerumque gregariis, semi vel omnino immersis, atris, globosis, $\frac{2}{3}$ mm. diam., ostiolo papillato, hirsuto; pilis fuscis, translucidis, 4 μ . crassis, septatis, obtusis; ascis cylindraceis, stipitatis, apice rotundatis, paraphysibus filiformibus ob-

vallatis, octosporis, 195-210 \approx 12-15, p. sp. 165-170 \approx 12-15; sporidiis monostichis, parallelogrammo-ellipsoideis, uniseptatis, leniter constrictis, opacis, mucro non obductis.

Hab. in fragmento ligneo putrescente Tilff. Belgii.

GIBELLINA Pass. in Rev. Myc. 1886, pag. 177. *Gibellia* (ex lapsu) Pass. Una nuova mal. Frum. (Etym. a cl. Prof. J. GIBELLI in Università Taurinensi Botanices Professore). — Stroma vel subiculum matrici immersum, byssoideum, atro-griseum, primitus canescens, plus minus expansum, ex hyphis tenuibus, fumoso-pellucidis intricatis, formatum. Perithecia stromate insidentia vel immersa, contigua, contextu fibroso, globosa, in collum subæquilonum, crassiusculum, rectum vel subinde flexuosum, erumpentem attenuata. Asci elongato-clavati, paraphysati, octospori. Sporidia oblonga, didyma, fuscescentia. — A genere *Neopeckia*, cui characteribus accedit, peritheciis innatis et toto habitu differt. Ab aliis generibus phæodidymis vero stromate byssoideo et peritheciis fibrosis præcipue diversum.

1. **Gibellina Cerealis** Pass. Nuova mal. Frum. pag. 5. et Rev. Myc. 7176 1886, p. 177. — Stromate intra foliorum vaginam expanso; peritheciis in series lineares digestis vel sparsis, rarius cæspitosis, subglobosis, ostiolo vaginam perforante, vix emerso, acutiusculo; ascis paraphysibus tenuibus obvallatis, diffluentibus, 100-110 \approx 22-25; sporidiis distichis, fusiformi-lanceolatis, primo hyalinis, integris dein medio septatis, non constrictis, e melleo vel avellanaceo-fuscescentibus, 22-30 \approx 7,5-9.

Hab. ad culmos languidos Tritici vulgaris quos corrumpit, Vigatto et Toschiura prope Parma Ital. bor.

1. **Leptosphæria Doliolum** (Pers.) Sacc. Syll. II, p. 14, *Var. angustispora* Pat. in Rev. Myc. 1886, p. 180. — A typo differt sporulis rufescentibus, triseptatis, minoribus, rectoribusque, 16-20 \approx 3. In caulibus emortuis Pedicularidis debilis, Yunnan Sinarum (AB. DELAVAY). 2895

- * 3. **Leptosphæria Acanthi** Pat. in Rev. Myc. 1886, p. 181. — Peri- 7177 theciis sparsis, primo epidermide tectis dein liberis, applanatis, ostiolo vix protuberante; ascis cylindræis, breve stipitatis, 106-110 \approx 9-10, paraphysibus filiformibus, fere gelatinosis, cinctis; sporidiis monostichis, fusiformibus, rectis, demum brunneo-rufis, triseptatis, ad septa parum constrictis, 20-23 \approx 6-7.

Hab. in caulibus emortuis Adathodæ (an potius Acanthi?) Yunnan Sinarum (AB. DELAVAY).

- *16. **Leptosphaeria Ericæ** (Fr.) Malbr. in litt. *Sphaeria Ericæ* Fr. 4380
S. M. Elench. 2, pag. 101. Sacc. Syll. II, pag. 422. — Perithecia sparsa vel aggregata, fusca, primo tecta, dein erumpentia; asci clavati, longe pedicellati, 85-95 \approx 10-11 (p. sp. 60-65), paraphysati; sporidia disticha, elliptica vel oblonga, utrinque obtusa, 3-septata, loculis mediis latioribus, medio non vel vix constricta, sæpissime recta, fusca, 18-19 \approx 6-7, eguttulata.

Hab. ad truncos Callunæ vulgaris, Brionne Galliæ.

- *65. **Leptosphaeria Magnusiana** Berl. et Sacc. — Peritheciis sparsis, 7478
minutis, 100-130 μ . diam., globosis, sursum vix papillatis, epidermide dein ostiolo perforata tectis; ascis cylindraceutis, basi abrupte breviterque stipitatis, sæpe curvis, crassiuscule tunicatis, apice subrotundatis, paraphysibus, filiformibus, subinde pseudo-septulatis, longioribus cinctis, 70 \approx 18, octosporis; sporidiis irregulariter distichis, vel sursum basique monostichis, oblongis vel subcylindraceutis, utrinque rotundatis, demum triseptatis, loculo secundo crassiore, fusco-fuligineis, 18-20 \approx 6.

Hab. in foliis exsiccatis Chamæropis humilis in insula Sicilia, socia *Sphaeropsis dothideoides*. — Affinis *L. Tritici* a qua loculo secundo paullo inflato et ascis multo majoribus, differt et *L. elvasporæ* a qua sporidiis conspicue crassioribus recedit, ab utroque vero matrice.

- *90. **Leptosphaeria Eranthemii** Pat. in Rev. Myc. 1886, pag. 181. — 7479
Peritheciis sparsis, epidermide tectis, applanatis, circularibus, ostiolo conoideo donatis; ascis 63-70 \approx 8-10, paraphysibus filiformibus obvallatis; sporidiis fusiformibus, rectis vel parum curvatis, fuliginis, 16 \approx 5, quinqueseptatis, raro 3-4-septatis, ad septa, præcipue ad medium, constrictis.

Hab. in pedunculis floralibus Eranthemii, Yunnan Sinarum (AB. DELAVAY). — Sporidia sæpe protoplasmate longitudinaliter diviso, muriformia apparent.

- *102. **Leptosphaeria Plumbaginis** Pat. in Rev. Myc. 1886, p. 181. — 7480
Peritheciis nigris, sparsis, globulosis, ostiolo vix emergente præditis; ascis cylindraceutis, breve pedicellatis, 110 \approx 15, paraphysibus filiformibus, crebre septatis cinctis; sporidiis primo linearibus, hyalinis, medio uniseptatis, dein brunneo-luteis, 8-12-septatis, medio vix constrictis, 50 \approx 6-7.

Hab. in caulibus emortuis Plumbaginis, Yunnan Sinarum (AB. DELAVAY).

117. **Leptosphaeria dolioloides** (Auersw.) Karst. — Sacc. Syll. II, p. 44. 3011

Var. inops Karst. in Hedwigia 1884, p. 4. — Peritheciis sparsis sphæroideo-depressis, epidermide tectis, dein denudatis, papilla punctiformi emergente, parte inferiore filamentis tortuosis, fuliginis vel fuscis obsessis, 0,2 mm. diam.; ascis cylindraceo-clavatis, 90-95 = 9-10, octosporis; sporidiis tristichis, fusoido-bacillaribus, utrinque attenuatis, levissime curvulis, spurie 2-septatis, plerumque loculo tertio protuberante, flavescens, 32-42 = 4-5; paraphysibus gracilibus, subramosis, guttulatis. In caulibus Anthrini silvestris Mustiala, Fenniae. — *Var. Cirsii*: Karst. i. c. peritheciis applanatis, demum subumbilicatis, basi filamentis brevibus, fuscis obsessis; ascis 88-105 = 9-12; sporidiis 30 = 4. In caulibus Cirsii in Fennia.

- * 158. **Leptosphæria fallax** Berl. Fung. Mor. fasc. IV. — Peritheciis minutissimis, atris, contextu parenchymatico, giboso-conoideis, ostiolo papilliformi, pertuso donatis, tectis, dein emergentibus $\frac{1}{7}$ - $\frac{1}{8}$ mm. diam.; ascis cylindraceis vel clavato-cylindraceis, subsessilibus, paraphysatis, 60-70 = 12, octosporis; sporidiis distichis, fusoidis, 5-septatis, loculo secundo crassiore, rectis vel curvulis, pallide viridulis, 28 = 4-5, utrinque rotundatis. 7481

Hab. in ramulis exsiccatis Mori albæ, Fiumicello Italiæ bor. — Fructificatione ad *L. Yulam* accedit.

- * 196. **Leptosphæria hemicrypta** Oud. Contr. Flor. Myc. Pays-Bas, XI, p. 21. — Peritheciis epiphyllis, membranaceis, nigris, $\frac{1}{6}$ mm. latis, depresso globosis, semiimmersis, pro dimidia fere parte occultatis sub epidermidis portiuncula antice hiante, postice vero e contextu non soluta; ostiolo simplici vel breviter papilloso præditis; ascis numerosis, cylindricis, 50-70 = 10-12, versus basim angustioribus, 8-sporis, partim paraphysibus filiformibus, subtilissimis, partim pseudo-paraphysibus piriformibus articulatis, longe pedicellatis, sursum in appendicem mucroniformem abeuntibus, stipatis; sporidiis distichis dilutissime fuscis, fusiformibus, paulum curvatis, 5-guttulatis 06 maturitatis stadium imperfectum septis hucusque destitutis. 7482

Hab. in foliis Caricis cujusdam, Putten Hollandiæ.

215. **Leptosphæria licatensis** Sacc. Syll. II, p. 70. *Var. rupefortensis* Pass. in litt. Brun. in Rev. Myc. 1886, p. 206. — Ascis paraphysatis, 75 = 12,5; sporidiis fusiformibus, 5-septatis, castaneo-brunneis, 25 = 5-6. In foliis emortuis Typhæ latifoliæ in Horto botanico Rochefort Galliæ. 3109

- * 267. **Leptosphæria fungicola** Winter in Hedwigia 1886, p. 101. — Peritheciis sparsis, superficialibus (an semper?), minutissimis, glo-

bosis, poro simplici pertusis, membranaceis, atris, glabris, 100 μ . diam.; ascis obclavatis, e basi lata sursum longe attenuatis, sessilibus, 8-sporis, 30-44 \approx 9-10,5; sporidiis conglobatis, fusiformibus, inæquilateralibus vel parum curvatis, 5-septatis, cellula tertia latissima, dilutissime viridulis, 12-16 \approx 3,5.

Hab. in hymenio Sterei subpileati vetusto in insula S. Thomè Afr. occ.

2. **Melanomma fuscidulum** Sacc. Syll. II, pag. 99. *Var. fructicolum* 3224
Brun. Champ. obs. Env. Saint. II, pag. 5. — Peritheciis minutis, sparsis, atris, subsuperficialibus vel basi leniter cortice insculptis, subglobosis vel conoideis, ostiolo vix elongato; ascis claviformibus, pedicello brevi instructis, 65 \approx 6, octosporis; sporidiis sursum submonostichis, basi monostichis, fusioideis, rectis vel parum curvatis, 3-septatis, brunneolis, 15 \approx 3.

Hab. in fructibus putrescentibus Fagi, Saintes Galliæ.

- *61. **Melanomma setosum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7484
p. 153. — Peritheciis sparsis, globosis, contextu membranaceo, sordide brunneo, $\frac{1}{8}$ - $\frac{1}{10}$ mm. diam., ostiolo minuto, obtuso, setulis continuis, atris, 35-50 \approx 4, laxiuscule vestitis; ascis aparaphysatis (?), e basi paulo ampliata oblongis, sursum rotundatis, deorsum attenuato-stipitatis, 45-52 \approx 12-15, octosporis; sporidiis inordinatis, distichis, oblongis, rectis, 3-septatis, non vel vix constrictis, sæpius septulo longitudinali divisus, loculis guttulatis, pallide fuliginis, 13-15 \approx 5-6.

Hab. in ligno putri Populi et Betulæ, Beaufays, Dolembreux in Belgio. — Materia mucosa nuclei jodii ope rubescit. — *Var. minus* Mout. l. c. p. 154. Typo minus; peritheciis $\frac{1}{15}$ mm. diam.; ascis 35-40 \approx 10-12, setulis 20-25 \approx 3; sporidiis raro septulo longitudinali divisus, 9-10 \approx 3,5-4,5. In ligno putrescente Quercus, Beaufays Belgii.

- *62. **Melanomma aculeatum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7485
p. 154. — *Melanommatis setoso* affine, sed setulis rectis, 70-100 \approx 5, apicem versus sensim attenuatis, ascis 50 \approx 9, sporidiis fusiformibus, subcurvulis, 5-septatis, virescentibus, 18-20 \approx 4,5, loculo tertio leviter crassiori distinguendum.

Hab. in ligno putri, Beaufays Belgii.

- *63. **Melanomma pleiosporum** Mouton in Bull. Soc. R. Bot. Belg. 7486
1886, pag. 154. *Melanommatis setoso* affine a quo peritheciis paulo majoribus, $\frac{1}{6}$ mm. diam., subcoriaceis; ascis 62-70 \approx 15-20, sexdecensporis; sporidiis non guttulatis, 11-15 \approx 5-6 differt.

Hab. in ramulis decorticatis *Quercus*, Dolémbreux Belgii.

- *1. **Trematosphæria Beccariana** Pass. in litt. Martelli in Flor. Bog. 7487
p. 145. — Peritheciis innato-superficialibus, sparsis vel gregariis globosis, levibus, atris, ostiolo minuto, papillato; ascis oblongo-clavatis, basi attenuato-stipitatis, tandem diffluentibus, circiter $75 \approx 12,5$, octosporis; sporidiis subdistichis, oblongo-fusiformibus, primo uniseptatis, dein tri-raro biseptatis, utrinque obtusis vel subacutis, loculo altero ex intermediis interdum tumidiore, melleo-fuscis, apicibus dilutioribus, $17,5-20 \approx 5-7,5$.

Hab. in corticibus vetustis prope Keren Abyssiniæ (BECCARI). 7488

- *2. **Trematosphæria fallax** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 155. — Peritheciis superficialibus, subglobosis, $\frac{1}{4}$ mm. diam., atris, rugosiusculis, subcarbonaceis, ostiolo conico, obtuso, demum perforato; ascis paraphysatis, ovato-oblongis, apice late rotundatis, basi in pedicellum crassum oblique attenuatis, octosporis, $160-170 \approx 50-55$; sporidiis bi-tristichis, late fusiformibus, inæquilateralibus, 8-septatis, ad septa leniter constrictis, fusco-olivaceis, loculis magnitudine disparibus, extimis pallidioribus.

Hab. in ligno secto adhuc duro, Beaufays in Belgio.

- *21. **Sporormia Marchaliana** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7489
p. 155. — Peritheciis gregariis, globosis, $1\frac{1}{2}-2\frac{2}{3}$ mm. diam., immersis vel protuberantibus, atris, ostiolo papilliformi, crasso et brevi, contextu coriaceo; ascis anguste clavatis, stipitatis, octosporis, p. sp. $170-200 \approx 20-24$; paraphysibus filiformibus, ramulosis; sporidiis superne 1-3-stichis, inferne monostichis, cylindræo-fusiformibus, utrinque obtuse rotundatis, leniter curvulis, fuscis, 12-14-cellularibus, articulis facile secedentibus, intermediis latioribus quam longis, strato mucoso, hyalino obvolutis, $60-76 \approx 8-9$.

Hab. in fimo Cuniculorum in dunis prope Heyst Belgii.

- *22. **Sporormia affinis** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. 7490
Belg. 1886, p. 171. — Peritheciis nigris, glabris, ovoideis, semi-immersis, 300 μ . diam., ostiolo brevi, recto, conoideo donatis; ascis cylindræis vel leniter claviformibus, $210-246 \approx 30-36$; sporidiis 8-cellularibus, sæpe curvatis, mucro late obvolutis, $71-90 \approx 12-16$ sine mucro, $96 \approx 27-30$ cum mucro, articulis facile dilabentibus, mediis parallelipedo-rotundatis, $9-15 \approx 12-15$, extimis rotundatis, $12 \approx 10$.

Hab. in fimo leporino, Genk Belgii. — Affinis *S. variabili* et *S. commutata*.

- *6. **Thyridaria Comptoniæ** (Ell. et Ev.) Berl. et Vogl. *Diatrype Com-* 7491

ptoniæ Ell. et Ev. in Journ. of Myc. 1886, pag. 89. — Stromate erumpente, subtuberculiformi, minuto, 1-3 mm. diam., subhemisphærico v. elongato, atro, ad basim albescente; peritheciis in stromatibus minoribus singulis et in majoribus, 2-12, tunica subtili, ovoideis v. mutua pressione subangularibus, $\frac{1}{1-\frac{1}{3}}$ mm. diam., sursum in collum breve, cylindraceum vel subconoideum vix prominulum contractis; ascis clavatis, 75-85 μ . longis, basi stipitatis, paraphysibus copiosis cinctis, octosporis; sporidiis subfusoides, luteo-brunneis, 3-septatis, leniter curvulis, 12-15 \simeq 4-5.

Hab. in caulibus emortuis, partim decorticatis *Comptoniæ asplenifoliæ*, Newfield Amer. bor.

- *5. **Metasphæria nigro-tingens** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 165. — Peritheciis sparsis, erumpentibus e matrice latiuscule denigrata, compresso-conoideis, 250-300 μ . diam., vertice obtuso, poro pertuso; ascis tereti-clavulatis, 75-100 \simeq 17-20, breve et crasse stipitatis, apice rotundatis, octosporis; paraphysibus ascos æquantibus; sporidiis distichis, hyalinis, fusiformibus, inæquilateralibus v. curvulis, 10-13-septatis, loculo quinto v. sexto omnium crassiore, loculis fere omnibus guttulis duobus, parallelis ornatis, 38-50 \simeq 7-8.

Hab. in culmis vetustis *Moliniaæ cœruleæ*, Gomzè in Belgio.

- *13. **Metasphæria primulicola** Pat. in Rev. Myc. 1886, p. 181. — Peritheciis minutis, epidermide tectis, atris; ascis sessilibus, cylindraceis, 70-110 \simeq 13-15, aparaphysatis; sporidiis hyalinis, fusiformibus, 3-4-septatis, 40 \simeq 6,5.

Hab. in caulibus emortuis *Primulæ callianthæ*, Yunnan Sinarum (AB. DELAVAY).

- *9. **Sphærulina assurgens** (Cooke) Berl. et Vogl. *Sphærella assurgens* Cooke in Grevillea XV, p. 16. — Peritheciis sparsis, semiimmersis, globosis, demum subliberis, submembranaceis, atris opacis, pertusis; ascis clavatis, sessilibus, aparaphysatis, octosporis; sporidiis fusoides, triseptatis, hyalinis, 20-24 \simeq 4.

Hab. in frondibus vivis *Trichomanis venosi*, New Zealand Australiæ (COLENSO).

- *2. **Zignoëlla subvestita** (Ell. et Ev.) Berl. et Vogl. *Sphæria subvestita* Ell. et Ev. in Journ. of Myc. 1886, p. 100. — Peritheciis ligno vel cortice insidentibus, basi matrice insculptis, ovato-conoideis, $\frac{1}{8}$ mm. diam., $\frac{1}{3}$ mm. vel amplius altis, atris, rugosis, ostiolo levi, sublucido, brevi, cylindraceo vel subconoideo, late pertuso, subtruncato ornatis; ascis clavato-cylindraceis, 50 \simeq 6-7, copiose

paraphysatis, basi in pedicellum gracilem desinentibus; sporidiis fusiformibus, hyalino-luteolis, vix curvulis, 3-septatis, vix ad medium constrictis, 12-15 \approx 2 $\frac{1}{2}$ -3, stipato-distichis.

Hab. in ligno sicco putri *Vaccinii*, Newfield Amer. bor.

- * 19. **Zignoëlla intermedia** Pass. in litt. Martelli in Flor. Bog. p. 144. 7496

— Peritheciis superficialibus, subgregariis, globosis, atris, basi setis rigidis, brevibus cinctis; ascis clavatis, basi attenuatis, paraphysibus filiformibus obvallatis, octosporis, 60-100 \approx 15-20; sporidiis bi-tristichis, fusiformibus, crebre 9-pluriseptatis, hyalinis, rectis vel curvulis, utrinque acutis, 30-33 \approx 5-6.

Hab. in ligno carioso, Keren Abyssiniæ (Beccari). — Perithecorum setis *Zign. macrosporam*, fructificatione vero *Z. dolichosporam* appropinquat.

- * 40. **Zignoëlla pachyspora** Sacc. Bomm. et Rouss. in Bull. Soc. R. 7497

Bot. Belg. 1886, p. 173. — Peritheciis irregulariter gregariis, subinde confluentibus, nigris, subglobosis vel ovoideis, rugulosis, $\frac{1}{2}$ - $\frac{1}{2}$ mm. diam., ostiolo obtuso, parum prominulo; ascis cylindraceutis, octosporis; sporidiis hyalinis, oblongo-cymbiformibus, monostichis, 3-septatis, 4-guttulatis, 25-33 \approx 9-11.

Hab. in ligno Populi submerso, Genk Belgii.

- * 1. **Karstenula dumorum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7498

p. 158, tab. IV, fig. 10. — Peritheciis gregariis, sub peridermio, pustulatim elevato nidulantibus, depressis, $\frac{1}{2}$ mm. diam., ostiolo brevioribus, denudato, albido-pruinosis; ascis cylindraceutis, paraphysatis, brevis et crasse stipitatis, octosporis, 160-170 \approx 9-10, p. sp. 140-155; sporidiis oblongo-ellipsoideis, utrinque obtusis, vulgo 3-septatis, ad septum medium constrictis, loculis intermediis, septulo longitudinali divisis, 19-24 \approx 7,5-8,5, fuscis.

Hab. in ramis exsiccatis Pruni spinosæ et Coryli Dolembreux, Beaufays in Belgio.

- * 1. **Pleospora gummipara** Oud. in Hedwigia 1883. — Peritheciis in 7499

propinquitate acervulorum *Corynei gummipari* in corticis parenchymate libere nidulantibus, aterritis, glabris, perfecte globosis, $\frac{1}{6}$ - $\frac{1}{4}$ mm. diam., contextu membranaceo, conidia pauca coryneoides, sessilia nonnunquam gerentibus; ascis aparaphysatis, oblongo-ovatis, curvatis, brevissime stipitatis, 90 \approx 18-20, octosporis; sporidiis distichis, triseptatis, septulo unico longitudinali, et tum 6-ocularibus, divisis, 24 \approx 12, ovoideis vel p. m. obovatis, medio ut plurimum profundius, ad altera septa minus constrictis, obscure fuscis, in eodem asco non semper omnibus rite evolutis.

Hab. in rimis grumulosis *Acaciae* cujusdam gummiferæ ex Senegal et Arabia.

- * 82. **Pleospora Thyphæ** Pass. in litt. Brunaud Liste Sphærops. p. 20. 7500
 — Peritheciis sparsis, punctiformibus, primo tectis dein liberis, atris; ascis clavatis, non paraphysatis, octosporis; sporidiis oblongo-ellipsoideis, subdistichis, 5-septatis, septulis longitudinalibus vix distinctis, luteis, 27-30 \approx 12-13.

Hab. in foliis emortuis *Thyphæ latifoliæ*, Rochefort Galliae.

- * 90. **Pleospora hydrophila** Karst. in Hedwigia 1883, p. 2. — Peritheciis sparsis, innatis, sphaeroideis, glabris, nigris, 0-2 mm. latis, ostiolo papilliformi, distincto, erumpente; ascis oblongatis, subsessilibus, 80 \approx 22, octosporis; sporidiis, tristichis, oblongato-fusoideis, inaequalateralibus vel leviter curvulis, 5-septatis, loculo tertio protuberante septuloque longitudinali præditis, ad septa leviter constrictis, luteolo-fuscescentibus, 22-30 \approx 6-10. 7501

Hab. in foliis *Acori Calami* putrescentibus prope Aboam, Fennicæ. — *Pl. deflectenti* affinis, forte tantum ejus subspecies vel varietas.

- * 17. **Teichospora arthonioides** Pass. in litt. Martelli in Flor. Bog. p. 145. — Peritheciis sparsis vel subgregariis, inter fibras ligneas semiimmersis, subglobosis vel e latere compressis, elongatis, carbonaceis, ostiolo obscuro; ascis numerosis, jodo immutatis, ellipticis vel obovatis, ut plurimum basi acuta sessilibus, octosporis, 30-44 \approx 20-23; sporidiis oblongo-spathulatis, subtristichis vel conglobatis, 5-septatis et muriformibus, hyalinis, 17 \approx 5, paraphysibus non visis. 7502

Hab. in ramulis cariosis, Keren Abyssiniæ (BECCARI).

- * 1. **Pleosphæria silvestris** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 158. — Peritheciis globosis, 150 μ . diam., coriaceis, atris, cum ostiolo obtuso confluentibus, setis concoloribus, 50-10 \approx 3 $\frac{1}{2}$ -5, undique hirsutis; ascis oblongis vel ovoideo-oblongis, 70 \approx 20, octosporis, parce paraphysatis; sporidiis elliptico-oblongis, apicibus rotundato-obtusis, plerumque 1-septatis, non constrictis, septulis longitudinalibus, uniseriatis, divisis, olivaceo-fulgineis, 17-20 \approx 8. 7503

Hab. in ramis sectis et decorticatis *Pini silvestris*, Beauvais in Belgio. — *P. pilosellæ* affinis a qua peritheciis minoribus sporidiorumque fabrica distinguitur.

- * 2. **Pleosphæria pulveracea** Mouton in Bull. Soc. Bot. R. Belg. 1886, p. 159. — Peritheciis subglobosis, $\frac{1}{4}$ mm. diam., atris, pilis concoloribus, rectiusculis, septatis, 70-100 \approx 4,5 vestitis, minute papil- 7504

latis; ascis tereti-clavatis, paraphysatis, breve stipitatis, superne rotundatis, octosporis, 95-115 \approx 15-17; sporidiis submonostichis, obovato-oblongis, 5-7-septatis, longitudinaliter subinde incomplete uniseriato-divisis, ad septum medium constrictulis, pallide fuliginis, 19-22 \approx 8,5-9.

Hab. in ligno secto adhuc duro *Quercus*, Beaufays in Belgio.

6. **Ophiobolus collapsus** Ell. et Sacc. Syll. II, pag. 339. *Var. moricola* Berl. Fungi Mor. Fasc. IV. — Peritheciis globoso-conoideis, papillatis, dein collapsis, atris, primitus tectis, dein epidermide secedente liberis, superficialibusque, minutis, $\frac{1}{4}$ mm. diam., setis paucis fuliginis basi cinctis; ascis cylindraceo-clavatis, sessilibus, 100-110 \approx 8, sursum rotundatis; sporidiis cylindraceis, rectis vel curvis, 90 \approx 3, in asco dilutissime flaveolis, 11-13-pseudo-septatis, loculo medio vix incrassato. 4022

Hab. in ramulis emortuis, decorticatis *Mori* albæ, Carpesica Italiæ borealis.

- *25. **Ophiobolus Antenoreus** Berl. Fungi Mor. Fasc. IV. — Peritheciis globosis, sursum in collum longiusculum, apice pertusum desinentibus, $\frac{1}{4}$ - $\frac{1}{5}$ mm. diam., tectis, ostiolo non rostellato tantum prominulo, atris; ascis longe cylindraceis, rectis vel curvis, sessilibus, 180-200 \approx 4, octosporis; sporidiis filiformibus, 10-15-guttulatis, 180-200 \approx $1\frac{1}{2}$, hyalinis vel pallidissime luteis. 7505

Hab. in ramulis emortuis, putridis *Mori* albæ in Horto botanico Patavino Ital. bor. — Affinis *Oph. Hesperidis*, a quo sporidiis longioribus, guttulatis differt. Ab aliis speciebus vero magnitudine ascorum sporidiorumque præcipue distinguendus.

- CYLINDRINA** Pat. in Soc. Bot. Franc. 1886, p. 155 (Ety. a *cylindros*). — Perithecia simplicia, subcornea, erecta, cylindrica, vertice truncata cupulataque, poro pertusa. Asci cylindracei, valde elongati. Sporidia filiformia, continua. Paraphyses numerosissimæ, simplices, tenues.

1. **Cylindrina Delavayi** Pat. in Soc. Bot. France, 1886, pag. 155. — Peritheciis sparsis, 1-2 mm. altis, nigris, cylindraceis, levibus, apice truncato-cupulatis, ostiolo circulari, subinde late pertuso; ascis longissimis, 300-350 \approx 6-7, paraphysibus linearibus, glacialibus obvalatis; sporidiis filiformibus, contiauis, ascos æquantibus. 7506

Hab. in foliis emortuis *Liparis liliifloræ*, Yunnan Sinarum.

- *23. **Nectriella Chamæropis** Oud. Contr. Fl. Myc. Pays-Bas XI, p. 24. — Peritheciis ad superficiem substrati pulvinuli orientibus, primitus sub hyphis albis, conidiferis, *Penicillii* cujusdam absconditis. 7507

postea vero liberatis, planeque conspicuis, pallide aurantiacis, materia glutinosa inter se et cum substrato coherentibus, $1\frac{1}{5}$ - $1\frac{1}{4}$ mm. diam., subglobosis, glabris, subtilissime papillatis, tandem ostiolo simplici apertis; ascis pedicellatis, numerosissimis, anguste cylindraceis, sursum rotundatis, $50 \approx 5$, paraphysibus numerosissimis stipatis; sporidiis monostichis, hyalinis, continuis, oblongis, $9,6 \approx 3,5$, utrinque rotundatis, protoplasmate exilissime granulato repletis.

Hab. in ramulis floralibus Chamæropis in Horto Botanico Amsterdam Hollandiæ.

- * 1. **Nectria Gorostankiniana** Wahrlich in Bot. Zeit. 1886, p. 503, 750
tab. III, fig. 22 et 25. — Peritheciis intense rubris, piriformibus, furfuraceis, contextu celluloso, laxo, 0,32 mm. altis, 0,26 mm. latis; sporidiis ovoideo-elongatis, uniseptatis, ad septum constrictis, utrinque acutiusculis, pluriguttulatis, $12-15 \approx 4-5$ hyalinis.

Hab. in Vanda tricolore culta in Germania.

- * 2. **Nectria Vandæ** Wahrlich in Bot. Zeit. 1886, pag. 503, tab. III, 750
fig. 23, 24. — Peritheciis rubris, piriformibus, furfuraceis, ostiolo nudo, acutiusculo, conoideo præditis; ascis....; sporidiis late ovoideis, utrinque rotundatis, vel uno apice obtuse acumiatis, uniseptato-constrictis, guttulis duabus majoribus atque aliis minoribus repletis, $8-10 \approx 4,4$, hyalinis.

Hab. in Vanda suavi culta in Germania.

- * 3. **Nectria cinericola** Quel. 14 Suppl. p. 10, tab. VIII, fig. 29. — 751
Peritheciis numerosis, sphæroideis, 300-400 mm. diam., subtiliter granulosis, rubro-aurantiacis, mycelio tenui, arcnoso, albo insidentibus; ostiolo leniter papillato, dein fimbriato; sporidiis ellipsoideis, 14μ . longis, septatis, 2-4-guttulatis, hyalinis.

Hab. inter algas ad cinerem in arenis combustis Jura.

- * 1. **Cordyceps Doassansii** Pat. Tab. An. Fung. fasc. V, pag. 213, 751
fig. 494. — Capitulo 5-8 mm. crasso, brevi, ovoideo, villosa, albo, ostiolis valde prominentibus luteo-maculato; stipite brevissimo, vel 1 cm. alto, tomentosum, albo, basi mycelio albo, villosa cincto; ascis cylindraceis, 8-sporis; sporidiis filiformibus, elongatis, $90 \approx 45$, tenuissimis, continuis; paraphysibus nullis.

Hab. in chrysalidibus Lepidopterorum, Les Eaux Bonnes Gallie (Doassans). — In eodem mycelio etiam conidia in globulum floccosum, stipite gracili, brunneo, 5-8 mm. longo suffultum collecta, sphæroidea, $4,5-2 \mu$. diam., hyalina.

- * 2. **Cordyceps Lioydii** Fawcett On an Ent. Fungus, p. 316 (cum figura). 751
— Stomatibus solitariis, pallide ochroleucis, ex articulo enatis,

capitulo perithecigero depresso-globoso, altitudine circ. 0,7 mm., latitudine circ. 1,5 mm.; stipite filiformi, infra medium autem incrassato, 4,5 mm. alto, ad basim apicemque 0,25 mm. lat., infra medium 0,5 mm. crasso; peritheciis stromate immersis, protracto-ovatis; ascis longissimis, cylindraceis, apice glandiformibus, circiter 160 μ . longis, aparaphysatis; sporidiis filiformibus, asci longitudinem æquantibus, hyalinis, (immaturis visis).

Hab. in corporæ formicæ atræ (Camponoti atricipitis) prope flumen Puruni in Guiana.

- *3. **Cordyceps Odyneri** Quel. 14 Suppl. p. 10, tab. XII, fig. 28. — 7513
Stipite gracili, 10-20 mm. longo pruinoso, griseo-pallido, ex mycelio candido orto, capitulo ovoideo, griseo-olivaceo; peritheciis ovoideo-conicis, semilibris, parvis; sporidiis capillaribus, dein septatis.

Hab. in larva quadam Hymenopteri e genere Odyneri in corticibus, Morvam in Vogesis.

- *1. **Sphaeroderma Hulseboschi** Oud. Contr. Flor. Myc. Pays-Bas XI, 7514 pag. 23. — Peritheciis superficialibus, $7\frac{1}{10}$ mm. latis, subglobosis, ostiolo brevi, obtuse conico, dilutissime ochraceis, hyalinis, e cellulis parenchymatosis contextis, tenuibus subtilibus; ascis fasciculatis, piriformibus, antice late rotundatis, $50 \approx 25$; sporidiis 8, tristichis, limoniformibus (i. e. ellipticis et utrinque apiculatis), primitus hyalinis (achromis), denique subolivaceis, apiculis diu pallidioribus, $19-21 \approx 11-12$.

Hab. in fimo Cuniculorum in Hollandia. — Differt a *S. theleboloide* subiculo nullo, ascis 8-sporis. A *S. aculeato* peritheciis sursum in ostiolum conicum contractis, amplioribus, porro ascis sporidiisque majoribus. A *S. episphaeria* peritheciis majoribus, ascis vero et sporidiis minoribus neque minus substrato diverso. A *S. fimicolo* tandem ascis octosporis, sporidiisque distincte limoniformibus distinguitur.

COSCINARIA Ell. et Ev. in Journ. of Myc. 1886, p. 88 (Etym. *coscinon* cribrum). — Perithecia membranacea, sursum multi-perforata. Asci et sporidia linearia.

- *1. **Coscinaria Langloisii** Ell. et Ev. in Journ. of Myc. 1886, p. 88. 7515
— Peritheciis tuberculiformibus, erumpentibus, $\frac{1}{3}-1\frac{1}{2}$ mm. diam., pallide carneo-coloratis hudis, siccitate vix atris, epidermide rupta cinctis, contextu celluloso, convexis vel sursum vix applanatis et 25-30 poris minutis, rotundis (ostiolis?) pertusis; ascis linearibus,

150-200 \approx 5; paraphysisibus (?); sporidiis filiformibus, multinucleatis, longitudinem ascorum fere æquantibus, 1 μ . crassis, subhyalinis.

Hab. in caulibus emortuis Vignæ luteolæ in Amer. bor. (LANGLOIS).

- * 1. **Dothidella frigida** Rostrup Svampe fra fiermarken pag. 233. — 751
Stromatibus epidermide inuatis, effusis forma variis, atris, nitidis, rugulosis; ascis ovoideo-oblongis, crasse tunicatis, sessilibus, 20-25 μ . longis, circit. 9 μ . crassis; sporidiis octonis, conglobatis, ovoideo-oblongis, prope basim 1-septatis, loculo superiore biguttulato, 9 \approx 3.

Hab. in caulibus aridis Phææ frigidæ Sakkabani Island.

PYRENOTHECA Pat. in Soc. Bot. France 1886, p. 155 (Etym. a *pyren* nucleus et *theca* ascus). — Stroma receptacula rotunda, nigra, carbonacea, contextu homogeneo gerens. Receptacula intus loculis in series plures irregulariter dispositis, quoque ascum continente, fæcta. Asci globulosi vel ovoidei, sessiles, octospori aparaphysati. Sporidia ovoidea, septato-muriformia, hyalina.

1. **Pyrenotheca yunnannensis** Pat. in Soc. Bot. France, 1886, p. 155. — 751
Stromatibus rotundatis vel elongatis, usque 1 cm. longis, $\frac{1}{2}$ cm. latis, brunneo-nigris, tuberculosis; tuberculis contextu brunneo, extus densiore, intus laxiore, loculis indheiscentibus, quoque ascum continente fæctis; ascis ovoideis vel globulosis, 30-50 \approx 30, tunica crassa præditis; sporidiis octonis, ovoideis, septato-muriformibus, 23 \approx 10, hyalinis.

Hab. in cortice vivo Buxi speciei B. sempervirenti affinis, Yunnan Sinarum.

- * 1. **Lophiosphæra intricata** (Nitschke) Berl. et Vogl. 1) *Lophiostoma* 751
intricatum Nitsch. in Lehmann Syst. Bearb. Pyren. *Loph.* p. 84, fig. 54. — Ascis subcylindræis, 80-90 \approx 11-13; sporidiis bicellularibus, loculis plerumque piriformibus, 19-26 \approx 6-7, anisomeris.

Hab. in cortice ramorum Salicis prope Münster (NITSCHKE). — Affinis, ut videtur, *L. schizostomati*.

- * 2. **Lophiosphæra Beckhausii** (Nitsch.) Berl. et Vogl. *Lophiostoma* 751
Beckhausii Nitsch. in Lehmann Syst. Bearb. Pyr. *Loph.* p. 64.

1) Opere nostro jam sub prælo, pervenit monographia Lophiostomearum cl. F. Lehmann, ex herbario Nitschkiano fere omnino orta. Multæ species novæ exhibentur, iconibus analyticis illustratæ, sed ex eo quod cl. auctor litteratura nuperiore non est usus, species ejusdem plures jam editis forte subjungendæ essent: temporis angustia revisionem criticam facere nequivimus, hinc specierum omnium Lehmannianarum notas essentielles tantum retulimus; additis, observationibus nonnullis de earum affinitate.

fig. 42. — Sporidiis acute fusiformibus, uniseptatis, hyalinis, 45 \approx 9, guttulatis.

Hab. in ligno fagineo Münster (NITSCHKE).

9. **Lophiosphæra heterostoma** (Ell. et Ev.) Berl. et Vogl. *Lophiostoma heterostomum* Ell. et Ev. in Journ. of Myc. 1886, p. 99. 7520
 — Peritheciis erumpentibus, sparsis vel subgregariis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., depressis, sphaeroideis, basi ligno insculptis, superne emergentibus; ostiolo lato compresso perithecii latitudinem fere æquante, demum deciduo et perithecium poro rotundo pertusum relincente; ascis clavato-cylindraceis, sursum rotundatis, basi in pedicellum gracilem attenuatis, 70-80 \approx 6-7, copiose paraphysatis, octosporis; sporidiis fusoides, uniseptatis, hyalinis, vix curvulis, appendiculis 8-10 μ . longis ornatis, 18-20 \approx 4,5-5, primo 3-4-nucleatis, demum muticis et tum medio constrictis, utrinque rotundatis, fusoides oblongis, sæpeque luteo-brunneis.

Hab. in discis dolii vinarii quercini Louisiana in Amer. boreali (LANGLOIS). — Matrix fungillo invasa rubescit. — Differt ab affine *L. pulveracea* peritheciis latoribus ostioloque deciduo.

1. **Lophiotrema simile** (Nit.) Berl. et V. *Lophiostoma simile* Nitschke in Lehm. Pyr. *Loph.* pag. 65, fig. 43 (nec Fuck.). — Ascis anguste clavatis, 140-160 \approx 21-24, sporidiis fusiformibus, utrinque acutis vel obtusiusculis, plerumque 7-septatis, rarius 5-6-septatis, 44-51 \approx 8-10, hyalinis. 7521

Hab. in ligno salicino putri in Germania.

2. **Lophiotrema Notarisii** (Nitsch.) Berl. et Vogl. *Lophiostoma Notarisii* Nitsch. in Lehm. Syst. Bearb. *Loph.* pag. 31. — Ascis plus minusve cylindraceis, vel anguste clavatis, 90-150 \approx 9-12; sporidiis fusiformibus, plerumque acutis, 3-septatis, hyalinis, raro fuscescentibus, 20-27 \approx 4-6. 7522

Hab. in caulibus herbarum Münster (NITSCHKE). — «Affine *L. vagabundo*».

3. **Lophiotrema leucosporum** (Nitsch.) Berl. et Vogl. *Lophiostoma leucosporum* Nitsch. in Lehm. Syst. Bearb. *Loph.* pag. 27, fig. 6. 7523
 — Ascis anguste cylindraceis, 90-110 \approx 9; sporidiis anguste fusiformibus, appendiculatis, hyalinis, 26-27 \approx 5-6; appendicula 4 μ . longa.

Hab. in Sio latifolio, Münster (NITSCHKE).

4. **Lophiotrema Cookei** (Nitsch.) Berl. et Vogl. *Lophiostoma Cookei* Nitsch. in Lehm. *Loph.* pag. 66, fig. 2. — Ascis oblongo-cla- 7524

vatis, 100-110 \approx 14-15; sporidiis fusiformibus, 3-5-septatis, appendiculatis, 35-40 \approx 7-9, appendicula 8 μ . longa.

Hab. in ramis Ulicis europæi, Münster (NITSCHKE). — « *L. angustilabro* propinquum ».

12. **Lophiotrema præmorsum** (Lasch.) Sacc. Syll. II, pag. 681. *Var.* 5427
Androsæmi Brun. in Rev. Myc. 1886, p. 206. — Sporidiis fusoideis, curvatis, vel subtortuosis, hyalinis, 4-guttulatis, 38-40 \approx 7-3, utrinque appendicula minuta ornatis. In caulibus emortuis *Androsæmi officinalis*, Saintes Galliæ.
- *8. **Lophiostoma subcollapsum** Ell. et Ev. in Journ. of Myc. p. 100. 7525
 — Peritheciis cartilagineis, membranaceis, atris globosis, $\frac{3}{4}$ -1 mm. diam., cortice immersis, epidermide vix elevata, nigrescente, ostiolo papilliformi, perforata tectis, demum collapsis; ascis clavato-cylindraceis, circiter 150 \approx 12, copiose paraphysatis; sporidiis oblique monostichis, vel sursum subdistichis, oblongo-ellipsoideis, 20-26 \approx 8-10, vel irregulariter ellipsoideis, 20-22 \approx 12-15, primo hyalinis demum brunneis, 3-7-septatis, ad septa non constrictis.
Hab. in cortice ramorum *Nyssæ multifloræ*, Newfield Americæ borealis. — Ostiolum fere inconspicuum et vix prominulum. Sporidia subinde loculis uno vel duobus, septo longitudinali divisa.
5. **Lophiostoma demissum** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7526
 pag. 35, fig. 20. — Ascis anguste clavatis vel subcylindraceis, 70 \approx 9-11; sporidiis fusiformibus, v. subcylindraceis, 3-septatis, fuscis 13-18 \approx 4,5-6.
Hab. in Plantagine majori prope Münster (NITSCHKE).
6. **Lophiostoma cultum** Nitschke in Lehm. Syst. Bearb. Pyr. *Loph.* 7527
 p. 80, fig. 23. — Ascis subcylindricis, 90-105 \approx 10; sporidiis subcylindraceis, rotundatis vel fusiformibus, obtusis vel acutiuseculis, tandem 4-cellularibus, dilute fuscescentibus, 22-24 \approx 5-6.
Hab. in caulibus *Euphorbiæ dulcis*, Münster (NITSCHKE).
7. **Lophiostoma isomerum** Nitschke in Lehm. Syst. Bearb. Pyr. *Loph.* 7528
 p. 86, fig. 57. — Ascis cylindraceis vel cylindraceo-clavatis 100-135 \approx 13-15; sporidiis cylindraceis vel subcylindraceis, utrinque rotundatis, 3-septatis, obscure fuscis, cellulis extimis pallidioribus, 21-24 \approx 9-10.
Hab. in cortice *Salicis* prope Münster (NITSCHKE). — « Af-fine *L. dumeti* ».
8. **Lophiostoma rubicolum** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7529
 pag. 58, fig. 39. *Loph. diminuens* Fuck. Symb. p. 156. — Ascis

oblongo-clavatis, 78 \approx 8; sporidiis obtuse fusiformibus, 3-septatis, 16 \approx 4, parum torulosis, flavescentibus.

Hab. in caulibus emortuis Rubi fruticosi prope Eberbach (NITSCHKE). — «Affine *L. argentino* et *L. quadrinucleato*».

9. **Lophiostoma Berberidis** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7530
pag. 54, fig. 34. — Ascis clavatis, 120 \approx 16; sporidiis ellipsoideis
vel fusiformibus, 3-raro, 4-5-septatis, fuscis, 24-27 \approx 7-8.

Hab. in ramis Berberidis vulgaris prope Arnstadt in Thuringia (NITSCHKE).

10. **Lophiostoma Ligustri** Nitsch. in Lehm. Bearb. Syst. Pyr. *Loph.* 7531
pag. 55, fig. 36. — Ascis clavatis, 85-90 \approx 9; sporidiis anguste
fusiformibus, 3-5-septatis, 22-25 \approx 3-4, subhyalinis vel pallide fla-
vescentibus.

Hab. in ramulis Ligustri prope Münster (NITSCHKE).

11. **Lophiostoma vexans** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7532
pag. 89, fig. 60. — Ascis cylindricis vel subcylindricis, raro sub-
clavatis, 130-160 \approx 16-24; sporidiis fusiformibus vel subcylindra-
ceis, 3-5-septatis, fuscis, 35-45 \approx 9-10.

Hab. in Salice prope Münster (NITSCHKE). — «Affine *L. macrostomo*».

12. **Lophiostoma anisomerum** Nitsch. in Lehm. Syst. Bearb. Pyr. 7533
Loph. pag. 86, fig. 56. — Ascis cylindricis vel subclavatis, 100-
130 \approx 11-13; sporidiis subcylindræis vel ovoideis, 3-5-septatis,
rarius muriformibus, plerumque didymis ac nonnihil anisomeris,
20-28 \approx 8-9, fuscis.

Hab. in cortice salicino prope Münsters (NITSCHKE). — «An *Lophidium?*»

13. **Lophiostoma Galeopsidis** Nitsch. in Lehmann Syst. Bearb. Pyren. 7534
Loph. pag. 40, fig. 13. — Ascis plerumque late clavatis, 90-105
 \approx 15; sporidiis subcylindræis vel fusoideis, 20-27 \approx 6-8, obscure
fuscis, interdum guttulatis.

Hab. in caulibus Galeopsidis ejusdam prope Münster (NITSCHKE).

14. **Lophiostoma Spartii** Nitsch. in Lehm. Syst. Bearb. Pyren. *Loph.* 7535
pag. 36, fig. 21; ascis anguste vel latiuscule clavatis vel subcy-
lindricis, 60-80 \approx 9-10; sporidiis fusiformibus, acutis vel obtusiu-
sculis, 3-raro 5-septatis, fuscis, 21-24 \approx 4,5-5.

Hab. in capsulis Sarothamni scoparii prope Münster (NITSCHKE).

15. **Lophiostoma biforme** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7536

pag. 69, fig. 47. — Ascis clavatis, 160-24; sporidiis bififormibus, α subcylindraceis, 3-septatis, distincte torulosis, dilute fuscis, 36 \approx 8-10; β fusiformibus, utrinque obtusiusculis, plerumque 5-raro 3-septatis, pallide fuscis, cellulis apicalibus, subhyalinis, 30-46 \approx 9-11.

Hab. in ligno quercino putri in Germania. — Sporidia in ascis non visa; verisimiliter duæ species.

16. **Lophiostoma Galii** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 753 pag. 41, fig. 14. — Ascis cylindræo-clavatis, 100 \approx 11; sporidiis fusiformibus, obtusis vel rarius obtusiusculis, sæpe inæquilateralibus, 5-septatis, tandem fuscis, 20-30 \approx 5-7.

Hab. in caulibus Galii Molluginis pr. Münster (NITSCHKE). — «An cum *L. caulium* comparandum?»

17. **Lophiostoma Dipsaci** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 753 pag. 40, fig. 12. — Ascis oblongo- vel anguste clavatis, 90-120. 11-13; sporidiis fusiformibus, acutis, vel obtusiusculis, 5-septatis, flavis, 24-31 \approx 5-6.

Hab. in Dipsaci silvestris caulibus emortuis Münster (NITSCHKE). — «Affine videtur *L. Galii*».

18. **Lophiostoma prominens** Nitsch. in Lehm. Syst. Bearb. Pyren. *Loph.* 753 pag. 38, fig. 10. — Ascis oblongo-clavatis, 93-100 \approx 12-13; sporidiis clavatis, parte superiore crassiori, 5-rarissime 3-septatis, flavescentibus, 22-30 \approx 4-5.

Hab. in caulibus Lychnidis dioicæ pr. Münster (NITSCHKE).

19. **Lophiostoma palustre** Nitsch. in Lehm. Syst. Bearb. der. Pyr. 754 *Loph.* pag. 45, fig. 19. — Ascis clavatis, 75-90 \approx 11-13; sporidiis anguste fusiformibus, 5-septatis, loculis mediis sæpe nonnihil turgidioribus, 21-30 \approx 5-6, obscure fuscis.

Hab. in culmis Phragmitis (?) in Germania. — «Cum *L. perverso* comparandum».

20. **Lophiostoma parvulum** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 754 pag. 42, fig. 15. — Ascis latiuscule vel rarius oblongo-clavatis, 100-120 \approx 12-14; sporidiis anguste fusiformibus vel subcylindraceis, dein 3-septatis, 6-guttulatis et demum 5-septatis, 24-27 \approx 6, pallide v. sordide flavescentibus.

Hab. in caulibus Sedi maximi prope Münster (NITSCHKE). — «Affine videtur *L. caulium*».

21. **Lophiostoma Phragmitis** Nitsch. in Lehmann Syst. Bearb. Pyr. 754 *Loph.* pag. 44, fig. 18. — Ascis latiuscule vel oblongo-clavatis, 110-120 \approx 14-15; sporidiis clavatis, parte superiore crassiore, ob-

tusioresque, 5-septatis, primo pallide flavescentibus, dein fuscis, 27 \approx 6-7.

Hab. in culmis *Phragmitis communis* prope Schwerin (NITSCHKE).

22. **Lophiostoma Sauteri** Nitsch. in Lehm. Syst. Bearb. Pyren. *Loph.* 7543
pag. 67, fig. 45. — Ascis cylindraceutis vel anguste elliptico-rotundatis, rarius subclavatis, 78 \approx 10; sporidiis fusiformibus, obtusiusculis, 5-septatis, fuscis, 21 \approx 6-7.

Hab. in Berberide prope Steyr Germ. (NITSCHKE),

23. **Lophiostoma nigricans** Nitsch. ad Otth. Lehm. Syst. Bearb. Pyr. 7544
Loph. pag. 71, fig. 49. — Ascis anguste clavatis, subrectis, 100-140 \approx 16; sporidiis fusiformibus, 5-7-septatis, medio constrictis, 36-42 \approx 7-8, pallide fuscis.

Hab. in ligno salicino putri in Germania. — «An cum *L. Balsamiano* comparandum?»

24. **Lophiostoma Nitschkei** Lehm. Syst. Bearb. Pyr. *Loph.* pag. 72, 7545
fig. 49. — Ascis non visis; sporidiis polymorphis; typice fusiformibus, rarius ellipsoideis, 7-septatis, tandem fuscis; 33-35 \approx 6-10.

Hab. in ramis *Aceris campestris* prope Münster.

25. **Lophiostoma Typhæ** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7546
pag. 26, fig. 5. — Ascis oblongo-clavatis, 90-110 \approx 10-11, p. sp. 70-90; sporidiis anguste fusiformibus, obtusiusculis, raro appendiculatis, fuscis, 20-27 \approx 5-7.

Hab. in culmis *Typhæ*, Münster (NITSCHKE). — «Affine *L. vaganti*».

27. **Lophiostoma commutatum** Nitsch. in Lehm. Syst. Bearb. Pyr. 7547
Loph. p. 37, fig. 22. — Ascis anguste vel latiuscule clavatis vel subcylindraceutis, 80-85 \approx 10-12; sporidiis late obtuseque ellipsoideis, fusiformibus vel subcylindricis, interdum nonnihil apiculatis, sæpe subobovatis, 3- rarius 4-5-septatis, fuscis, 16-19 \approx 6-7.

Hab. in *Ononide spinosa*, Münster (NITSCHKE).

28. **Lophiostoma Ulicis** Nitsch. in Lehm. Syst. Bearb. der Pyr. *Loph.* 7548
pag. 21, tab. I, fig. 1. — Ascis clavatis, 80-90 \approx 11; sporidiis fusiformibus, appendiculatis, curvatis, 5-7-septatis, fuscis, 30-32 \approx 5-6 μ . longis.

Hab. in ramis *Ulicis europæi*, Münster (NITSCHKE). — Affine *L. intermedio*.

29. **Lophiostoma Diaporthe** Nitsch. in Lehm. Syst. Bearb. *Loph.* p. 7549
28, fig. 8. — Ascis oblongo-clavatis, 80-95 \approx 11-15; sporidiis an-

guste fusoides vel subcylindraceis, 1-septatis, fuscis, 25-30 \approx 5-6. appendiculatis; appendiculis 4-5 μ . longis.

Hab. in caulibus *Pastinacæ sativæ*, Beckhaus (NITSCHKE).

30. **Lophiostoma Lappæ** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* p. 26, fig. 4. — Ascis cylindrico-clavatis 112 \approx 14, p. sp. 96; sporidiis anguste fusiformibus vel subcylindricis, dilute fuscescentibus vel fuscis, appendiculatis, 20-32 \approx 5-6, appendicula 8 μ . longa.

Hab. in caulibus *Lappæ* prope Schwerin Germ. (NITSCHKE). «*L. simillimo* proximum».

32. **Lophidium brachystomum** (Nitsch.) Berl. et Vogl. *Lophiostoma brachystomum* Nitsch. in Lehm. Syst. Bearb. Pyren. *Loph.* p. 88, fig. 59. — Ascis cylindraceis, 130-180 \approx 14-16; sporidiis plerumque ovoideis, 5-raro 7-septatis, muriformibus, 28-36 \approx 11-12, hyalinis.

Hab. in cortice putrescente *Populi* et *Salicis* in Germania. — «Affine videtur *L. curto*».

33. **Lophidium Crouanii** (Nitsch.) Berl. et Vogl. *Lophiostoma Crouanii* Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* pag. 53, fig. 53. *Lophium caulium* Crouan Finist. pag. 29. — Ascis cylindraceis draceis, 90-100 \approx 10; sporidiis oblongis vel subcylindraceis, 5-7-septatis, sæpe parum muriformibus, 23-30 \approx 8-10, fuscis.

Hab. in caulibus *Aquilegiæ*, Münster (NITSCHKE).

- *2. **Schizothyrium Rhododendri** Pat. in Rev. Myc. 1886, p. 180. — Orbiculare, applanatum, 2-3 mm. longum, 1-2 mm., latum, ex epidermide longitudinaliter rupta vix prominens; ascis octosporis, 120-150 \approx 13-15; sporidiis monostichis, ovoideis, levibus, hyalinis, continuis, 13-16 \approx 7-10; paraphysibus copiosissimis, filiformibus, flexuosis, ascos superantibus.

Hab. in cortice *Rhododendri*, Yunnan Sinarum (AB. DELAVAY).

2. **Glonium cænobiticum** Duby in herb. Rehm Rev. Hyst. Dub. p. 37. — Peritheciis sessilibus, non immersis, gregariis, linearibus, obtusis, rectis, rima longitudinali divisis, parallelis, 3 mm. longis, $1\frac{1}{2}$ mm. lat.; ascis crassis, clavato-ellipsoideis, 60 \approx 15; sporidiis octonis, distichis, clavatis, acutiusculis, hyalinis, bicellularibus, mucos subtiliter obvolutis, 15 \approx 5-6; paraphysibus sursum ramosis, epithecium brunneum formantibus.

Hab. in *Jasmino fruticante*, S. Antoine de Galamus Pyr. or.

4. **Hysterium Notarianum** Rehm Rev. Hyst. Dub. pag. 21, *Hysterium* spec. Duby in herb. — Peritheciis gregariis; primo fere omnino immersis dein sessilibus, elongatis, obtusis, depressis, rima

profunda, subtili signatis, longitudinaliter striatis, 2-2,5 mm. longis, 1 mm. lat.; ascis clavatis, 90 \approx 10; sporidiis octonis, distichis, fusioideis, rectis, luteo-brunneis, 2-4-6-7-cellularibus, granulosis, cellulis duabus superioribus latioribus, 15-21 \approx 6.

Hab. ad truncos quercinos in montanis in Sardinia (De Notaris). — Loculus major subinde a septo longitudinaliter diviso videtur.

1. **Trybliidiella Steigeri** (Duby) Rehm Revis. Hyst. pag. 29, *Hysterium Steigeri* Duby in herb. — Peritheciis erumpentibus, primitus hysteroideis, nigris, 3 mm. longis, 1 mm. lat., dein subcurvatis, sæpe stelleformibus, 8 mm. long. 1-3 mm. lat., labiis primitus arcte conniventibus, longitudinaliter haud transverse striatulis; ascis cylindræis octosporis; sporidiis monostichis, oblongis, obtusis, rectis vel subcurvatis haud constrictis, 3-4-septatis, fuscis, 30 \approx 10-12, paraphysibus filiformibus (?) apice septatis et subfuscis, 3-5 μ .

Hab. ad cortices in vicinia urbis Paranagua Brasiliæ.

3. **Gloniella pyrenaica** Rehm Rev. Hyst. Dub. p. 34. — Peritheciis in maculis ligni denigratis immersis, sparsis, rectis, 2-3 mm. longis, $\frac{1}{4}$ mm. latis; ascis clavatis, 70 \approx 15; sporidiis octonis, distichis, fusiformibus, subacutis et subcurvatis, hyalinis, 4-cellularibus, 18 \approx 5; paraphysibus ramosis, fuscidulis.

Hab. ad Loniceram Periclymenum, S. Antoine de Galamus Pyren. or.

7. **Gloniella Stenogramma** (Dur. et Mont.) Rehm Rev. Hyst. Dub. pag. 5, *Hysterium Stenogramma* Duby in herb. Sacc. Syll. II, p. 747. — Sporidia clavata, hyalina, recta, obtusa, 3-septata, 10-12 \approx 4-4,5; paraphyses ramosæ, ascos obovatos, sessiles, crasse tunicatos, 36 \approx 24 obvallantes.

7. **Gloniopsis decipiens** De Not. -- Sacc. Syll. II, p. 775. *Var. Cisti* Rehm Rev. Hyst. Dub. p. 13. — Peritheciis subsessilibus, elongatis, subobtusis, rectis vel subcurvatis, atris, medio subtiliter rimosis, 1-2 $\frac{1}{2}$ mm. longis, $\frac{1}{2}$ mm. lat.; ascis clavatis, crassis, octosporis, 90 \approx 15; sporidiis distichis, ellipsoideis, medio subconstrictis, transverse 5-septatis, cellulis mediis, imprimis superioris sporidii partis, simpliciter horizontaliter divisis, hyalinis, 18-20 \approx 6-7; paraphysibus ramosis, superne fuscis.

Hab. ad truncos emortuos *Cisti ladaniifolii* prope Olten Helv.

10. **Gloniopsis levantica** Rehm Rev. Hyst. Dub. p. 6, *Hysterium* sp. Duby in herb. — Peritheciis....; ascis clavatis, crassis, 90 \approx 18;

sporidiis octonis, distichis, fusiformibus septemseptatis, septulo longitudinali divisis, hyalinis 21-24 \approx 9; paraphysibus tenuibus, sursum ramosis.

Hab. in sarmentis Rubi, Ile du Levant (Hyeres) (MULLER).

12. **Gloniopsis Verbasci** (Duby) Rehm Rev. Hyst. Dub. pag. 11, *Hysterium Verbasci* Duby in Herb. — Peritheciis elongatis, 1-3 mm. long., $\frac{1}{2}$ - $\frac{3}{4}$ mm. lat., acutis, non striatis; hypothecio brunneo; ascis clavatis, crassiusculis, 70 \approx 15-18; sporidiis 6-8, distichis, elongato ellipsoideis, obtusis, rectis vel parum curvatis, transverse primo 3- dein 7-septatis, loculis 1-2-longitudinaliter divisis, hyalinis 15-17 \approx 7-8; paraphysibus filamentosis, 3 μ . crassis, epithecium brunneum formantibus, sursum incrassatulis. 7559

Hab. in Verbasco in..... (locus non indicatus).

14. **Hysterographium hiascens** Rehm. — Sacc. Syll. II, p. 780. *Var.* 5771
depressum Winter in Rev. Myc. 1886. p. 212. — Peritheciis superficialibus, dense stipatis, ellipsoideis, rarius oblongis, plus minusve depressis, plerumque rectis, labiis tumidulis, conniventibus, striatulis, opacis, atris 0,5 mm. longis; sporidiis interdum usque 28 μ . elongatis, 7-10-septatis. — Ad lignum putridum prope Melbourne Australiæ (READER).
20. **Hysterographium Rehmanium** Berl. et Vogl. *Hysterographium* 7560
 spec. Rehm Rev. Hyst. Dub. p. 22. — Peritheciis sparsis, sessilibus, ellipsoideis, demum superficialibus, rima longitudinali apertis, subcompressis, obtusiusculis, 2 mm. long., 1 mm. lat.; ascis crassis, clavatis, 150 \approx 30 octosporis; sporidiis distichis, ovato-ellipsoideis, transverse 8-10-septatis, longitudinaliter 3-4-septatis, luteis vel brunneis, 30-36 \approx 15; paraphysibus ramosis.

Hab. in ramulis..... S. Antoine de Galamus Pyr. or.

2. **Robergea singularis** (Duby) Rehm Rev. Hyst. Dub. p. 4, *Ostropa* 7561
cinerea var. *singularis* Duby in herb. — Gregaria, verrucas in ligno denudato, albas, 2-4 mm. long., 1 mm. lat., $\frac{1}{2}$ mm. alt., ellipticas v. hemisphaericas, anguste cinereo-limbatis formans; verrucis vertice 1-2 maculas rotundas, subconcasas, punctiformes, fuscidulas, medio dilutiores, sine ostiolo conspicuo gerentibus; nucleolo sub maculis transverse fere horizontaliter in longitudinem 2-3 mm. in ligno sito; ascis 600-700 \approx 7-8; sporidiis, filiformibus, 500 \approx 1; paraphysibus tenerrimis.

Hab. ad ramos exsiccatas Rhodis typhini in Helvetia (?).

- * 1. **Didymosphæria scabella** (Quel.) Berl. et Vogl. *Sphaeria scabella* 7562
 Quel. 13 suppl. pag. 9, tab. VIII, fig. 24. — Peritheciis cor-

neis, lenticularibus, 400–500 μ . diam., mammiformibus, granulosis vel vix spinulosis, nigris; ostiolo conoideo, umbilicato, vix prominulo; sporidiis lanceolatis, 30 μ . longis.

Hab. in ramis denudatis putrescentibus *Hederæ*, Jura.

1. **Parodiella circumdata** (Kunze) Rehm Rev. Hyst. Dub. p. 30. *Hyst. 7563*
sterium circumdatum Kunze in herb. Duby. — Peritheciis in medio macularum nigrescentium, oblongarum vel rotundarum paginæ foliorum superioris gregarie sessilibus, subrotundis, corrugatis, nigrofuscis, poro conspicuo deficiente, $\frac{1}{3}$ mm. diam.; ascis clavatis, 8-sporis, 60–70 \approx 9; sporidiis distichis, oblongis, obtusis, rectis, bicellularibus, utraque cellula plerumque 1-nucleata, medio interdum subconstrictis, fuscis, tenuiter mucore gelatinoso obductis, 12–15 \approx 5; paraphysibus teneris, filiformibus hyalinis.

Hab. in foliis *Palmarum* (?) (herb. SCHWABRICHEN).

HORMOSPHERIA Lév. in Ann. Sc. Nat. 1863, p. 297 (Etym. *hormos* monile et *Sphæria*). — Perithecia carnosia, grumosa, unilocularia, sporangiis 3–4 repleta. Sporangia membranacea, tenuia, subglobosa, sporidiis concatenatis fæta.

1. **Hormosphæria tessellata** Lév. in Ann. Sc. Nat. 1863, pag. 257. — *7564*
 Peritheciis gregariis, discretis, erumpentibus, globosis, tessellatorimosi, maculis albidis, orbicularibus, vel irregularibus, ambitu limitato, primo albis, nitoris argentei, demum nigris, opacis, paginam superiorem foliorum occupantibus insidentibus, ostiolis (quando conspicuis) papillatis; sporangiis membrana tenuissima anhistâ, plus minusve globosis, in perithecii cavitate liberis, pallide viridibus; sporidiis globosis, concatenatis, levibus, hyalinis.

Hab. ad folia *Thibaudia* floribundæ, Bagota, Paramo San Fortunio Novæ Granat. (LINDIG). — «Genus valde paradoxum; an inter *Algas Nostochineas* locandum?»

SPHÆROPSIDÆ

- *21. **Phyllosticta arbutifolia** Ell. et Mart. in Journ. of Myc. 1886, *4630*
 pag. 129. — Maculis epiphyllis, minutis, 1 mm. vel minus, diam., albis, in pagina inferiore foliorum; peritheciis sæpe uno in centro cujusdam maculæ, subastomis, emergentibus, atris, 70–80 μ . diam.; sporulis subglobosis, hyalinis, 6–8 μ . longis.

Hab. in foliis vivis *Piri arbutifolia*, Newfield Amer. bor.

- *23. **Phyllosticta gossypina** Ell. et M. in Journ. of Myc. 1886, p. 129. 4631
 — Maculis brunneolis, pallidis vel vix albis, irregularibus, 3-5 mm. latis, margine rufo-purpureo, lato cinctis, sæpe folium decolorantibus; peritheciis nigris, subglobosis, collapsis, membranaceis, innato-erumpentibus, vix prominulis, epiphyllis, sparsis, in maculis parvis, 65-95 μ . diam.; sporulis hyalinis, ovoideis, utrinque obtusis, 2,5-3,5 \approx 1,5-2,5,
Hab. in foliis emortuis *Gossypii* herbacei in Amer. bor. (PROF. L. F. SCRIBNER).
- *29. **Phyllosticta ludoviciana** Ell. et Mart. in Journ. of Myc. 1886, 4632
 pag. 130. — Peritheciis amphigenis, in parte superiore magis prominulis, brunneis, laxis, erumpentibus, 150 μ . diam., in areolis, rufo-brunneis, sæpe lateralibus vel in maculis ovoideis vel subangularibus, obscure subtiliterque marginatis, definitis, sparsis; sporulis ovoideis, hyalinis, 5-8 \approx 2-3.
Hab. in foliis vivis *Quercus aquaticæ*, Louisiana Americæ borealis.
- *33 **Phyllosticta Diapensiæ** Pat. in Rev. Myc 1884, p. 181. — Ma- 4633
 culis epiphyllis, albidis; peritheciis minutis, globulosis, nigris; sporulis numerosissimis, hyalinis, tenuissimis, 3 \approx 1.
Hab. in foliis *Diapensiæ*, Yunnan Sinarum (AB. DELAVAY).
- *34. **Phyllosticta sidæcola** Cooke in Grevillea XIV, p. 39. — Epi- 4634
 phylla; maculis brunneis, indistinctis, demum centro pallidioribus, irregularibus vel confluentibus; peritheciis punctiformibus, membranaceis, brunneis, minutis; sporulis ellipsoideis, enucleatis, hyalinis, 4 \approx 2.
Hab. in foliis languidis *Sidæ napeæ*, Kew Britanniae.
- *35. **Phyllosticta saccharina** Ell. et Mart. in Journ. of Myc. 1886, 4635
 pag. 130. — Maculis amphigenis, definitis, parvis, 1-2 mm. diam., albis, margine rubiginoso-brunneo, irregulariter sparsis; peritheciis epiphyllis, in pagina superiore conspicuis, lenticularibus atris, 100-120 μ . diam.; sporulis oblongis, 3,5-4,5 \approx 1-1,3, hyalinis.
Hab. in foliis vivis *Aceris saccharini*, Missouri Americæ borealis.
- *36. **Phyllosticta Ginkgo** Brun. Liste Sphærops. p. 7. — Peritheciis am- 4636
 phigenis, appropinquatis et hinc inde maculas minutas formantibus, punctiformibus, atris; sporulis minutis, ovoideis, hyalinis, 3-8,5 \approx 2.
Hab. in foliis delapsis *Ginkgo bilobæ*, Rochefort Galliae.
38. **Phyllosticta potamia** Cooke in Grevillea XIV, p. 40. — Maculis 4637
 pallidis, ochraceis, dein brunneis, indistincte marginatis; perithe-

ciis præcipue in pagina inferiore, punctiformibus, atris, subinde protuberantibus, nitidis; sporulis ellipsoideis, hyalinis, 10-12 \approx 3.

Hab. in foliis Potamogeti, Lyndhurst, Hantg Britanniae.

40. **Phyllosticta Aizoon** Cooke in Grevillea XIV, p. 40. — Epiphylla; maculis parvis, suborbicularibus, brunneis, obscure marginatis; peritheciis minutis, membranaceis, brunneis, immersis; sporulis ellipsoideis, continuis, hyalinis. 3 \approx 1,5. 4638

Hab. in foliis Sedi Aizoonis, Kew Britanniae.

- *56. **Phyllosticta adusta** Ell. et Mart. in Journ. of Myc. 1886, p. 130. — Maculis amphigenis, pallidis vel griseis, margine definito, subtili, luteo-brunneo cinctis, sæpe marginalibus, 1-4 cm. latis vel marginem foliorum longe occupantibus; peritheciis amphigenis, atris, subglobosis, laxè aggregatis, subinde confluentibus, epidermide mox rupta tectis, 175-240 μ . diam.; sporulis hyalinis, oblongis vel subcylindraceis, sæpe bi- vel trinucleatis, 10-16 \approx 4-7; basidiis, 7-10 μ . longis. 4639

Hab. in foliis Citri Aurantii gelu tactis Green Cove Springs, Florida Amer. bor. — Sporulis latioribus a *P. marginali* distinguenda.

- *81. **Phyllosticta Cyrillæ** Ell. et Mart. in Journ. of Myc. 1886, p. 130. — Maculis latis, margines, apicem basimque foliorum tegentibus, primo rufo-brunneis dein griseo-brunneis; peritheciis atris, subglobosis, pertusis, valde immersis, dein erumpentibus, sæpe epiphyllis, aggregatis, 110-140 μ . diam.; sporulis hyalinis, ovoideis, granulosis, 8-10 \approx 5-7. 4640

Hab. in foliis vivis Cyrillæ racemifloræ, Green Cove Springs, Florida Amer. bor.

- *70. **Phyllosticta Æsculi** Ell. et Mart. in Journ. of Myc. 1886, p. 130. — Hypophylla, in maculis latis, indefinite limitatis; peritheciis punctiformibus, minutis, 40-50 μ . diam., sparsis, brunneis; sporulis oblongo-cylindraceis, hyalinis, 3-4 \approx 1. 4641

Hab. in foliis vivis Æsculi glabræ, Missouri Amer. bor. — A *P. sphæropsidea* sporulis valde minoribus differt.

- *300. **Phyllosticta Tokutaroi** Spieg. in Rev. Myc. 1886, p. 183. — Maculis sparsis solitariis, irregulariter orbicularibus, parvulis, 2-3 mm. diam., centro pallescentibus, areola sordide intenseque castaneo-fusca, indeterminata, latiuscula cinctis; peritheciis paucis, prominulo-subexertis, globoso-depressis, 250 μ . d., atris, glabris, v. subpapillois, ostiolo parum manifesto, in senectute lacero-dehiscente, coriacellis, contextu sinuoso-parenchymatico, olivaceo-atro, sub-

pellucido donatis; basidiis fasciculatis, obclavato-elongatis, $25 \approx 2-3$, hyalinis, monosporis, continuis; sporulis ellipticis v. ovoideis rectis v. inæquilateralibus, $5-6 \approx 2-2\frac{1}{2}$, hyalinis.

Hab. ad folia viva Polygoni multiflori in dumetis prope Tokio Japon.

- *33. **Phoma Sambuci** Pass. in Journ. hist, Nat. Bord. 1835, p. 135, 4643
Brun. List. Sphær. p. 10. — Peritheciis approximatis, punctiformibus, parvis, nigris; sporulis lineari-lanceolatis, enucleatis, hyalinis, $10 \approx 1,5-2$.

Hab. in ramis decorticatis Sambuci nigræ, Saintes Galliæ, 102. **Phoma depressa** (Lév.) Sacc. Syll. III, p. 82. *Var.* **fructicola** 481
Brun. Liste Sphærops. p. 11. — Sporulis $10-12 \approx 3$. In fructibus exsiccatis Syringæ vulgaris, Saintes Galliæ.

131. **Phoma lirelliformis** Sacc. Syll. III, pag. 87. *Var.* **Viburni-Opuli** 510
Brun. Liste Sphærops. p. 11. — Sporulis elongato-oblongis, subfusoides, $8 \approx 2-3$, utrinque guttuligeris. In caulibus emortuis decorticatisque Viburni Opuli, Saintes Galliæ. — *Var.* **Weigeliæ-roseæ** Br. l. c. — Sporulis ovoideo-oblongis, biguttulatis, $8 \approx 3$; basidiis duplo longioribus. In ramis emortuis decorticatisque Weigeliæ roseæ, Saintes Galliæ.

- *146. **Phoma Brunaudi** Berl. et Vogl. *Phoma Staphyleæ* Brun. Liste 4644
Sphærops. p. 12 (non Cooke). — Maculis stromaticis, subcircularibus vel irregularibus, nigrescentibus, linea atra, subinde distinctissima cinctis; peritheciis cortice innatis, minutis, sparsis vel vix appropinquatis, primo tectis, dein vix erumpentibus; sporulis oblongis, rectis, $8 \approx 2,5-3$; basidiis 15-20, rectis vel hamatis,

Hab. in ramis emortuis Staphyleæ Colchicæ, Saintes Galliæ. — «An diversa a *Phoma Staphyleæ* Cooke?»

- *324. **Phoma lirellata** Sacc. Syll. III, p. 118. *Var.* **Centranthi** Brun. 703
Liste Sphærops. p. 15. — Peritheciis sparsis, vel in series parallelas congestis, subglobosis, compressis, subinde difformibus, nigris, tectis, dein subsuperficialibus, poro perspicuo pertusis, macula stromatica, elongata, irregulari, atra, vel atro-brunnea, sæpe linea nigra limitata, insidentibus; sporulis ovoideis vel ovoideo-oblongis, $6-8 \approx 2-3$, biguttulatis; basidiis filiformibus, 15-16.

Hab. in caulibus emortuis Centranthi rubri, Saintes Galliæ.

- *407. **Phoma Sumacis** Brun. Liste Sphærops. p. 11. — Peritheciis 4645
globulosis, atris, primo tectis, dein erumpentibus, perforatis, minutis; sporulis ovoideis, hyalinis, minutis, $2,5-3 \approx 2$.

Hab. in caulibus emortuis Rhœis glabræ, Pons Galliæ. — Affinis *Ph. Ebuli*, verisimiliter ut hujus varietas habenda.

- *422. **Phoma nebulosa** (Fr.) Mont. — Sacc. Syll. III, p. 135. *Var. Cerastii* Pass. in Journ. hist. Nat. Bord. 1885, p. 135. Brun. Liste Sphærops. p. 17. — Sporulis bacillaribus, rectis, utrinque obtusis, $15 \approx 2,5$. In caulibus et ramulis *Cerastii trivialis*, Saintes Echilais Galliæ.

- *400. **Phoma Salviæ** Brun. Liste Sphærops. pag. 16. — Peritheciis sparsis vel approximatis, primo tectis dein erumpentibus, globulosis, parvis, nigris, macula linea stromatica nigra cincta insidentibus; sporulis oblongis, hyalinis, biguttulatis, $7-8 \approx 2-2,5$; basidiis filiformibus, $15 \approx 1$.

Hab. in caulibus emortuis decorticatis *Salviæ officinalis*, Saintes Galliæ.

- *598. **Phoma Typhæ** Pass. in Brun. Liste Sphærops. p. 20. — Peritheciis sparsis, punctiformibus, depressis, nigris, primo epidermide tectis dein liberis; sporulis cylindraceis, rectis, hyalinis.

Hab. in foliis *Typhæ latifoliæ*, socia *Pleospora Typhæ* Rochefort Galliæ.

- *599. **Phoma depressula** Sacc. Bomm. et Rouss. in Rev. Myc. 1886, p. 193. — Peritheciis numerosis, sparsis, vix prominulis, nigris, sub epidermide atrata, lucida nidulantibus, poro pertusis; sporulis subclavatis, hyalinis, granulosis, $15-16 \approx 4-5$; basidiis brevibus, simplicibus, monosporis.

Hab. in *Scirpo cæspituloso* prope Bruxelles Belgii.

- *3. **Dendrophoma Gleditschiæ** Pass. in Journ. hist. nat. Bord. 1885, p. 136, Brun. List. Sphærops. p. 21. — Peritheciis membranaceis, carbonaceis, sparsis, vel gregariis, globulosis, erumpentibus, nigris; sporulis bacillaribus, hyalinis, $10-12 \approx 3-3,5$; basidiis longe ramosis, ramis in ramulos divisis.

Hab. in ramis, emortuis *Gleditschiæ Triacanthi*, Saintes Galliæ.

- *7. **Dendrophoma teres** Berl. s. n. — Peritheciis globoso-conoideis, minutis $100-120 \mu$. d., basi hyphis fuliginis cinctis, contextu laxo parenchymatico, sursum ostiolatis; sporulis numerosis, ovoideis, enucleatis, in cirrum expulsis, $3 \approx 1,5$; basidiis tereti-fusoideis, denticulatis vel brevissime ramosis, furcatisque; denticulis sporulas sustentibus, crassiusculis, subinde brevissimis.

Hab. in ramis emortuis *Mori albæ*, Fiumicello Ital. bor.

- *8. **Dendrophoma Mori** Berl. s. n. — Peritheciis ligno immersis, parte su-

periore pellucida, pertusa, conoidea, tantum prominulis; sporulis sphaeroideis vel vix ovoideis enucleatis, 3-4 \approx 3, denticulis basidiorum brevibus insertis vel acrogenis; basidiis cylindraceis septatis, ad septa denticulato-dilatatis, vel nodulosis, 40-50 \approx 3,5.

Hab. in ligno emortuo Mori albæ, Fiumicello Ital. bor.

1. **Asteroma Solidaginis** Cooke in Grevillea XIV, p. 40, — Peritheciis minutis, in maculis obscuris suborbicularibus collectis, mycelio tenui, brunneo, crustaceo, reticulato, plus minusve radiante insidentibus; sporulis ellipsoideis, minutis, hyalinis, continuis.

Hab. in foliis vivis Solidaginis ellipticæ, Kew Britannia.

- * 1. **Vermicularia Eleocharidis** Pat. in Rev. Myc. 1886, pag. 181. — Minuta; peritheciis epidermice tectis, apice fasciculo parvo setarum septatarum, 50-65 μ . long. ornatis; sporulis hyalinis, continuis, fusoides, rectis vel curvulis, uno apice acute mucronatis, 15-17 \approx 5.

Hab. in Eleocharide, Yunnan Sinarum (AB. DELAVAY).

- * 13. **Vermicularia acuum** Oud. Contr. Flor. Myc. Pays-Bas XI, p. 28. — Peritheciis seriatim dispositis, nigris, 100-120 μ . diam., subsphaericis, sursum plus minusve conoideis, contextu parenchymatico, minuto, setis raris, carnis, atris 4-septatis ornatis, astomis; sporulis hyalinis, ellipsoideis, 7 \approx 3,5.

Hab. in acubus Abietis excelsæ, Putten Hollandiæ.

5. **Placosphaeria Onobrychidis** (D. C.) Sacc. Syll. III, p. 245. *Var. minuta* Brunaud Liste Sphaerops. pag. 24. — Stromatibus 4-5 mm. longis, 2-3 mm. latis. In foliis et caulibus Onobrychidis sativæ, Saintes Cozes Pons Gallia. — *Var. exappendiculata* Brun. l. c. Stromatibus crustaceis, nigris vel brunneo-nigris, ovoideis, oblongis vel irregularibus, minutis, totum folium vel partem ejus tegentibus, sæpe cauliculis, intus fuscescentibus; sporulis subsphaeroideis vel ovoideis, irregularibus, hyalinis, 7-8 \approx 4-5, exappendiculatis. In p. sup. et inf. foliorum et in caulibus Onobrychidis sativæ, Arces Gallia.

- * 1. **Fusicoccum Malorum** Oud. Contr. Flor. Myc. Pays-Bas, XI, p. 29. — Stromatibus verruciformibus, nigris, erumpentibus, forma variis, superficie valde inæquali, intus spurie plurilocularibus, loculis circumcirca basidiis rectis longiusculis vestitis, singulis sporulas fusiformes, hyalinas, continuas, utrinque angustatas, 7-9 \approx 2-3, seriatim gerentibus.

Hab. in epicarpio Malorum putrescentium, Amsterdam Hollandiæ.

- * 2. **Fusicoccum asperum** (Bonord.) Berl. et Vogl. *Coronium asperum* Bon. Abh. Geb. Myk. p. 132. — Gregarium; pustulis oblongis seu ellipticis, stromate ceraceo, griseo, disco pallido, erumpente, poro simplici pertuso; basidiis virgato-ramosis; sporulis longis, fusiformibus, utrinque acutissimis, curvatis, hyalinis. 4656
Hab. in ramis *Quercus* in Gueſtphalia.
- * 3. **Fusicoccum umbrinum** (Bonord.) Berl. et Vogl. *Coronium umbrinum* Bon. Abh. Geb. Myk. pag. 132. — Gregarium; stromate ovato, subtus plano, umbrino, cortici adnato, epidermide fissa erumpente, ostiolo simplici pertuso; sporulis fusiformibus, minutis, hyalinis, uno latere rectis, altero curvatis; pustulis ellipticis. 4657
Hab. in cortice *Coryli* in Gueſtphalia.
- * 8. **Fusicoccum macrosporum** Sacc. et Briard in Rev. Myc. 1886, p. 156. — Stromate parum elevato, convexo, obtuso, epidermidem elevante atque demum rumpente, eaque cincto, pluriloculari, nucleis albis faretis; sporulis oblongis, hyalinis, guttulatis, granulosisque, obtusis, sed utrinque vix attenuatis, 44-48 \approx 12-14; basidiis hyalinis, brevissimis. 4658
Hab. in ramis emortuis delapsisque *Fagi silvaticæ* socio *Asterosporio Hoffmanni*, Troyes Galliæ.
- * 9. **Fusicoccum Brunaudi** Pass. in Journ. hist. nat. Bord. 1885, p. 136. 4659
 Brun. Liste Sphærops. p. 25. — Pulvinatum, erumpens, sursum et intus album, obscure locellatum; sporulis cylindræco-fusiformibus, hyalinis, 17-18 \approx 2,5-3.
Hab. in ramis crassioribus *Quercus*, Pessines Cozes Bougnaud Galliæ.
- * 60. **Sphæropsis Jasmini** Pat. in Rev. Myc. 1886, pag. 182. — Peritheciis punctiformibus, nigris, epidermide tectis; sporulis ovoideis rotundatis, brunneis, bi-trinucleatis, 6-7 \approx 6. 4660
Hab. in ramulis emortuis *Jasmini*, Yunnan Sinarum (Ab. DELAVAY).
- * 61. **Sphæropsis Evolvuli** Pat. in Rev. Myc. 1886, pag. 182. — Peritheciis epidermide tectis, nigris, globulosis, 200 μ . diam.; sporulis rufo-brunneis, ovoideis, 1-guttulatis, 10 \approx 8. 4661
Hab. in caulibus exsiccatis *Evolvuli*, Yunnan Sinarum (Ab. DELAVAY).
- * 74. **Sphæropsis Rostrupii** Berl. et Vogl. *Sphæropsis* sp. Rostrup Unders. Svamp. Rhizoct. p. 19, tab. I, fig. 1-5. — Peritheciis sparsis, pseudoparenchymaticis, rufo-brunneis; sporulis ovoideis, vel 4662

sphæroideis, rufescentibus, basi apiculatis, guttulis 1-3 pallidioribus præditis, 6-8 \approx 4-6.

Hab. in radicibus Trifolii hybridi in Islandia.

- *80. **Sphæropsis caricina** Pass. in Journ. hist. Nat. Bord. 1885, p. 136, 406
Brunaud Liste Sphærops. p. 28. — Peritheciis sparsis, minutis, globulosis, nigris, tectis, ostiolo epidermidem perforante donatis; sporulis ellipsoideis vel ovoideis, fuligineis, continuis (an semper?), 18-22 \approx 10-12,5; basidiis brevibus, subæqualibus, hyalinis.

Hab. in foliis emortuis Caricis ripariæ, Saintes Galliæ.

1. **Coniothyrium olivaceum** Bon. in Fuck. — Sacc. Syll. III, p. 305. 173
Var. **phyllogena** Sacc. in Rev. Myc. 1886, pag. 193. — A typo differt peritheciis phyllogenis, minoribus, sporulis obovatis, 7 \approx 4, fuligineis. In foliis vivis Rhododendri, Fontainebleau Galliæ.
29. **Coniothyrium australe** Sacc. Syll. III, pag. 311. *Var.* **Mespili** 173
Pass. in Journ. hist. Nat. Bord, p. 136, Brunaud Liste Sphærops. p. 29. — Peritheciis epidermide tectis, dein erumpentibus; sporulis ovoideis, brunneis, centro guttulatis, 12,5-15 \approx 8-10. In ramis emortuis Mespili germanicæ, Pessines Galliæ.
- *1. **Haplosporella obscura** Pass. in Journ. hist. Nat. Bord. 1885, 406
p. 136. Brunaud Liste Sphærops. p. 29. — Stromate carbonaceo, pulvinate, per epidermidem stellatim ruptam erumpente, sursum granuloso-rugoso, intus pluriloculare; loculis (peritheciis?) subglobosis; sporulis ovoideis, uno apice acutis, fuligineis, 10-12 \approx 5; basidiis longitudine variis, sæpe brevibus, filiformibus, hyalinis.

Hab. in ramis emortuis Castaneæ vulgaris, Saintes Galliæ.

11. **Diplodia atrata** (Desm.) Sacc. Syll. III, p. 331. *Var.* **Pseudoplatani** 18
Brun. Liste Sphærops. p. 30. — Sporulis 22-26 \approx 11-12. In ramis emortuis Aceris Pseudoplatani, Saintes Galliæ.
14. **Diplodia Kœlreuteriæ** Sacc. Syll. III, pag. 331. *Var.* **minor** Bru- 18
naud Liste Sphærops. pag. 30. — Sporulis 20-25 \approx 10, ad septum constrictis. In ramis emortuis Kœlreuteriæ paniculatae, Saintes Galliæ.
63. **Diplodia Cruris-Galli** Brun. Liste Sphær. pag. 32. — Peritheciis 40
sparsis vel gregariis, primo tectis dein erumpentibus, globulosis, vel globuloso-depressis, nigris, perforatis; sporulis oblongis, 1-septatis, fuligineis, medio constrictis, 22-28 \approx 10-12.

Hab. in ramis emortuis Crategi Cruris-Galli, Saintes Rochefort Galliæ.

71. **Diplodia Cesarorum** Fuck. — Sacc. Syll. III, p. 341. *Var.* **major** 18
Brun. Liste Sphærops. pag. 32. — Sporulis ovoideo-oblongis, 35-

38 = 15-17, 1-septatis, septo non vel vix constrictis, fuliginis, primo continuis, granulosisque, pedicellatis. In ramis emortuis *Cerasi Avium*, *Saintes Galliae*.

87. **Diplodia Ribis** Sacc. Syll. III, p. 344. *Var. Ribis-malvacei* Brunaud Liste Sphærops. p. 33. Sporulis 28-30 = 12-12,5. In ramis emortuis *Ribis malvacei*, *Saintes Galliae*. — *Var. Ribis-aurei* Br. l. c. Sporulis 28 = 12. In ramis emortuis *Ribis aurei*, *Saintes Galliae*. — *Var. Ribis-sanguinei* Brun. l. c. Sporulis 22-25 = 12-15. In ramis emortuis *Ribis sanguinei*, *Saintes Galliae*.

113. **Diplodia laurina** Sacc. Syll. III, pag. 318. *Var. minor* Pass. in Journ. hist. Nat. Bord. p. 136, Brunaud Liste Sphærops. p. 35. — Sporulis 18-20 = 10-12, septo non vel vix constrictis. In ramis emortuis decorticatisque *Lauri nobilis*, *Saintes Galliae*.

137. **Diplodia ditior** Sacc. et Roum. Syll. III, pag. 352. *Var. petiolorum* Brun. Liste Sphærops. pag. 36. — Sporulis 30 = 14, medio valde constrictis. In petiolis *Platani orientalis*, *Saintes Galliae*.

*235. **Diplodia Medicaginis** Brun. Liste Sphærops. pag. 37. — Peritheciis sparsis vel gregariis, subglobosis, nigris, primo tectis dein erumpentibus; sporulis ovoideo-elongatis, utrinque sæpe subacutis, 1-septatis, medio non constrictis, loculis uniguttatis, brunneis, 25 = 10.

Hab. in caulibus emortuis *Medicaginis sativæ*, *Saintes Galliae*.

*263. **Diplodia Frumenti** Ell. et Ev. in Journ. of Myc. 1886, p. 103. — Peritheciis globosis, subinde ostiolo cylindraceo, crassiusculo præditis, subcæspitosis vel sæpe seriatis, rimis longitudinalibus immersis; sporulis ellipsoideis, brunneis, 1-septatis, 15-18 = 12; basiidiis crassiusculis.

Hab. in culmis emortuis *Zeæ Maydis* in America boreali. — Certe cum *D. Zeæ* neque comparanda.

*69. **Botryodiplodia Mali** Brun. Liste Sphærops. p. 38. — Peritheciis numerosissimis, gregariis, parvis, stromate corticolo, nigro, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., suborbiculari vel irregulari, ruguloso, tecto dein erumpente immersis; sporulis obovoideis, primo continuis, 1-septatis, 20 = 8, ad septum non vel vix constrictis.

Hab. in cortice emortuo truncorum *Mali* *Saintes Galliae*.

*1. **Ascochyta moricola** Berl. s. n. — Peritheciis minutis, $\frac{1}{5}$ mm. d., globosis, globosove-conoideis, in ostiolum breve, subobtusum desinentibus, tectis; sporulis fusoideis, utrinque acutis, 1-septatis ad septum non vel vix constrictis, 10 = 3, pallidissime luteis.

Hab. in ramulis emortuis Mori albae, Fiumicello Ital. bor. socio *Cnidialyria fuscidulo*. — Ab omnibus speciebus ramicolis facile distinguenda.

- *275. **Diplodina Iridis** Pass. in Journ. hist. Nat. Bord. 1885, p. 136. — Brunaud Liste Spheroys. p. 41. — Maculis nullis: peritheciis punctiformibus, sparsis, nigris: sporulis oblongis, utrinque rotundatis, ad medium 1-septatis, hyalinis, 18-20 = 5.

Hab. in foliis emortuis Iridis Pseudacori, Saintes, Saint-Cézaire Galliae.

- *288. **Hendersonia Acanthi** Pat. in Rev. Myc. 1886, p. 182. — Peritheciis epidermide tectis, minutis, ostiolo lato apertis: sporulis primo viridulis, continuis, dein rufo-brunneis, 3-septatis, 16-20 = 6-8.

Hab. in caulis emortuis Adathodæ, Yunnan Sinarum (Ab. DELAYAY). — Verisimiliter status pycnidicus *Leptosphaeria Acanthi*.

- *290. **Hendersonia stictica** Lév. in An. Sc. Nat. 1863, pag. 209. — Peritheciis gregaris, epiphyllis, punctiformibus, prominulis, convexis, basi applanatis, intus extusque nigris, macula albida, limitata insidentibus: basidiis simplicibus, sporulis ovato-fusiformibus, incoloribus, 3-5-septatis, diametro quadruplo quintuplove longioribus.

Hab. ad folia Thibaudicæ rupestris, Bogota, Monserrate Novæ Gran.

- *297. **Hendersonia bicolor** Pat. in Rev. Myc. 1886, p. 182. — Maculis epiphyllis, saepe orbicularibus, cinereis, margine ruguloso cinctis: peritheciis vix prominulis, nigris, luculis: sporulis ovoideis, 8-12 = 5-6, utrinque parum curvatis, biseptatis, loculis duobus rufis, alio hyalino attenuatoque.

Hab. in foliis Rhododendri, Yunnan Sinarum (Ab. DELAYAY).

KELLERMANNIA Ell. et Ev. in Journ. of Myc. 1886, p. 153 (Etyim. a cl. Dr. W. A. KELLERMAN generis detectore). — Perithecia immersa, membranacea, ostiolata. Sporulae cylindraceae, latae, septatae, apice appendicula lesiniformi praeditae.

1. **Kellermannia yuccogena** Ell. et Ev. in Journ. of Myc. 1886, p. 151. *Discula anomala* Sacc. Syll. III, p. 677. — Perithecia membranacea, circiter 2 mm. diam., globosa, matrice immersa, vix conspicua, ostiolo papilliformi, annata, atra, epidermidem vix erumpentia: sporulae cylindraceae, granulosae, 45-50 = 10-12, sursum in setam lesiniformem, 18-25 μ . longam contractae.

Hab. in foliis emortuis Yuccae angustifoliae, Manhattan, Kansas Amer. bor.

3. **Kellermannia Sisyrinchii** Ell. et Ev. in Journ. of Myc. 1886, p. 111. 4674
 — Peritheciis sparsis, minutis, 150 μ . diam., epidermide tectis, subglobosis, parte superiore prominulis dein collapsis, apice perforatis, membranaceis, contextu dense parenchymatico, quam *K. Polygoni* pallidior; sporulis oblanceolatis, hyalino-luteolis, 3-septatis, 50-60 \approx 5-6, cum appendicula circiter sporulae dimidia equante.
Hab. in Sisyrinchio bello, Berkeley, Cala Amer. bor.
2. **Kellermannia Polygoni** Ell. et Ev. in Journ. of Myc. 1886, p. 111. 4675
 Peritheciis erumpentibus, membranaceis, contextu laxo parenchymatico, atris, depresso globosis, $\frac{1}{2}$ mm. diam., ostiolo papillato, perforato; sporulis lanceolatis, 1-septatis, 30-40 \approx 3-4 cum appendicula, basi rotundatis, hyalino-luteolis, primo granulosis et nucleatis, gradatim citra medium in appendiculam lesiniformem, rectam, gracilem contractis.
Hab. in caulibus emortuis *Polygoni polymorphi*, Blue Canon, Cala Amer. bor. (HARKNESS).
- * 21. **Camarosporium Eucalypti** Winter in Rev. Myc. 1883, p. 212. 4673
 — Peritheciis in macula irregulari, saepe angulata, pallide fusca vel cinereo, fusca determinata, linea obscuriori limitata, usque 7 mm. diam. gregariis vel aggregatis, plerumque epiphyllis, erumpentibus, globosis, atris, membranaceis, poro pertusis, 130-160 μ . diam., saepe confluentibus; sporidiis numerosissimis, late ovoideis, vel piriformibus, medio vel extra medium transverse uniseptatis, una cellula demum septo longitudinali, saepe obliquo praedita, fusciculis, guttulis, 12,5-14 \approx 7-9, stipite filiformi, brevi hyalino suffultis.
Hab. in foliis *Eucalypti*, prope Melbourne Australiae (H. WATTS COMM. READER).
- * 70. **Stagonospora virens** Ell. et Mart. in Journ. of Myc. 1886, p. 120. 4677
 — Peritheciis nigris, subglobosis, gregariis vel sparsis, hypophyllis, 130-160 μ . diam.; sporulis hyalinis, ovatis, utrinque acutis, uniseptatis, 15-16 \approx 4-6.
Hab. in foliis *Quercus virentis*, Green Cove Springs in America boreali (Prof. F. L. SCRIBNER).
82. **Stagonospora Anemones** Pat. in Rev. Myc. 1886, p. 181. — Peritheciis sparsis, $\frac{1}{2}$ -1 mm. diam., nigris, lucidis, primo epidermide tectis, demum liberis, ostiolo prominulo donatis; sporulis cylindraceis, uno apice vix attenuatis, hyalinis, rectis vel vix curvulis, 3-septatis, 26-30 \approx 3-4.
Hab. in petiolis emortuis *Anemones*, Yunnan Sinarum (AB. DELAVAY).

- * 1. **Septoria Melastomatum** (Lév.) Berl. et Vogl. *Rhabdospora Melastomatum* Lév. in Ann. Sc. Nat. 1863, p. 299. — Peritheciis minutis, puncto minoribus, sparsis, globosis, epidermide tectis, prominulis, vertice pertusis, macula alba, arida fusco-cincta insidentibus; sporulis linearibus, continuis, cylindricis, utrinque obtusis, hyalinis.

Hab. ad folia Melastomatis ejusdam in Nova Granata.

- * 1. **Septoria Primulæ** Bucknall in Grevillea XIV, pag. 40. — Epiphylla; maculis pallidis, orbicularibus, brunneo-marginatis, sparsis; peritheciis paucis, punctiformibus, semiimmersis, atris, centro pallidioris macularum insidentibus; sporulis linearibus, rectis, hyalinis, 47 μ . longis.

Hab. in foliis Primulæ, Leigh Vood in Britannia.

- * 1. **Rhabdospora curvula** Berl. s. n. — Peritheciis tectis, globoso-conoideis, dein erumpentibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d., atris, sursum in ostium obtusum perforatum desinentibus; sporulis cylindræis, sinuosis, curvulis vel falcatis, 25-28 \approx 1-1,5; basidiis longitudine variis, ramosis, basi sensim incrassatulis, septatis, 25-30 \approx 1, basi 3 μ . crassis, ramis apice etiam duas sporulas sustinentibus.

Hab. in ramis Mori albæ; Fiumicello Ital. bor.

- * 1. **Discella albomaculans** Peck in 35 Rep. Stat. Mus. 1884, p. 137. — Peritheciis punctiformibus, hemisphæricis, prominulis, in macula alba, indefinita gregariis, atris, rima irregulari vel radiata apertis; sporulis numerosis, oblongis, obscure uniseptatis, 10-12 \approx 3, hyalinis.

Hab. in ramulis emortuis Vitis in montibus Helderberg in America boreali.

- * 2. **Discella hysteriella** Peck in 35 Rep. Stat. Mus. 1884, p. 137. — Peritheciis hysteriiformibus, inter fibras ligni nidulantibus, rima longitudinali vel elliptica demum apertis, nigris; sporulis numerosis, oblongis utrinque obtusis, obscure uniseptatis, 7,5-10 \approx 3-4, hyalinis.

Hab. in ligno decorticato, North Greenbush Amer. bor.

- OLLULA** Lév. in Ann. Sc. Nat. 1863, pag. 299 (Ætym. ab *olla*). — Perithecia membranacea, concava, late aperta, basi puncto matrici adnata. Discus e basidiis ramosis, apice monosporis formatus.

1. **Ollula pezizoidea** Lév. in Ann. Sc. Nat. 1863, pag. 299. — Peritheciis levibus, albis, disco aurantiaco; sporulis oblongis, continuis, incoloribus, diametro triplo quadruplove longioribus.

Hab. ad cortices, Villeta, la Vega, Nov. Granat. — Fungillus hic exacte faciem minusculæ *Pezizæ aurantiacæ* exhibet.

HYPHOMYCETEÆ

* 1. **Fusidium Mimosæ** Pass. et Roum. Rev. Myc. 1885, pag. 178. — 3664

Cæspitulis pulveraceis, glomeratis vel vage sparsis, albidis; conidiis cylindraceo-lanceolatis, rectis vel arcuatis, hyalinis, 10 ≈ 2,5.

Hab. in endocarpio leguminum fracidorum *Mimosæ Julibrissin* in Gallia (*Reliquiæ Prostii*).

REPERTORIUM

SPHÆROPSIDEARUM, MELANCONIEARUM ET HYPHOMYCETUM

SECUNDUM MATRICES

(Additis speciebus in **Appendice** descriptis).

Numeri 4213-4684 citantur 213-684; numeri vero asterisco notati, et illi *Hyphomycetum* et *Pyrenomycetum* ex integro citantur.

Obs. A. indicat *Aposphæria*. — Alt. *Alternaria*. — Am. *Amerosporium*. — Amph. *Amphisphæria*. App. *Appendicularia*. — Ar. *Arthriniium*. — Arthr. *Arthrosporium*. — As. *Aschochyta*. — Ast. *Asterina*. — Aste. *Asteroma*. — Bas. *Basidiella*. — Bot. *Botryotiplodia*. — C. *Chætophoma*. — Ca. *Camarosporium*. — Cercosp. *Cercospora*. — Cer. *Cercosporella*. — Ch. *Chalara*. — Cy. *Cytospora*. — Clav. *Clavularia*. — Clon. *Clonostachys*. — Col. *Collonema*. — Coll. *Colletotrichum*. — Co. *Coniothyrium*. — Con. *Coniosporium*. — Cor. *Corethrospis*. — Cory. *Coryneum*. — Cosc. *Coscinaria*. — Cry. *Cryptosporium*. — Cyl. *Cylindrosporium*. — Cyli. *Cylindrium*. — Cylin. *Cylindrina*. — D. *Dothiorella*. — Da. *Dorluca*. — Dact. *Dactylium*. — Dactyl. *Dactylosporium*. — Dendr. *Dendrophoma*. — Diap. *Diaporthe*. — Diat. *Diatrypellia*. — Di. *Diplodia*. — Dic. *Dichomera*. — Did. *Didymosphæria*. — Didy. *Didymaria*. — Didym. *Didymella*. — Dim. *Dimerosporium*. — Dip. *Diplodiella*. — Dipl. *Diplodina*. — Disc. *Discella*. — Eph. *Ephelis*. — Epic. *Epicoccum*. — End. *Endothia*. — Ex. *Excipula*. — Fusar. *Fusarium*. — F. *Fusicoccum*. — Fu. *Fusi-*

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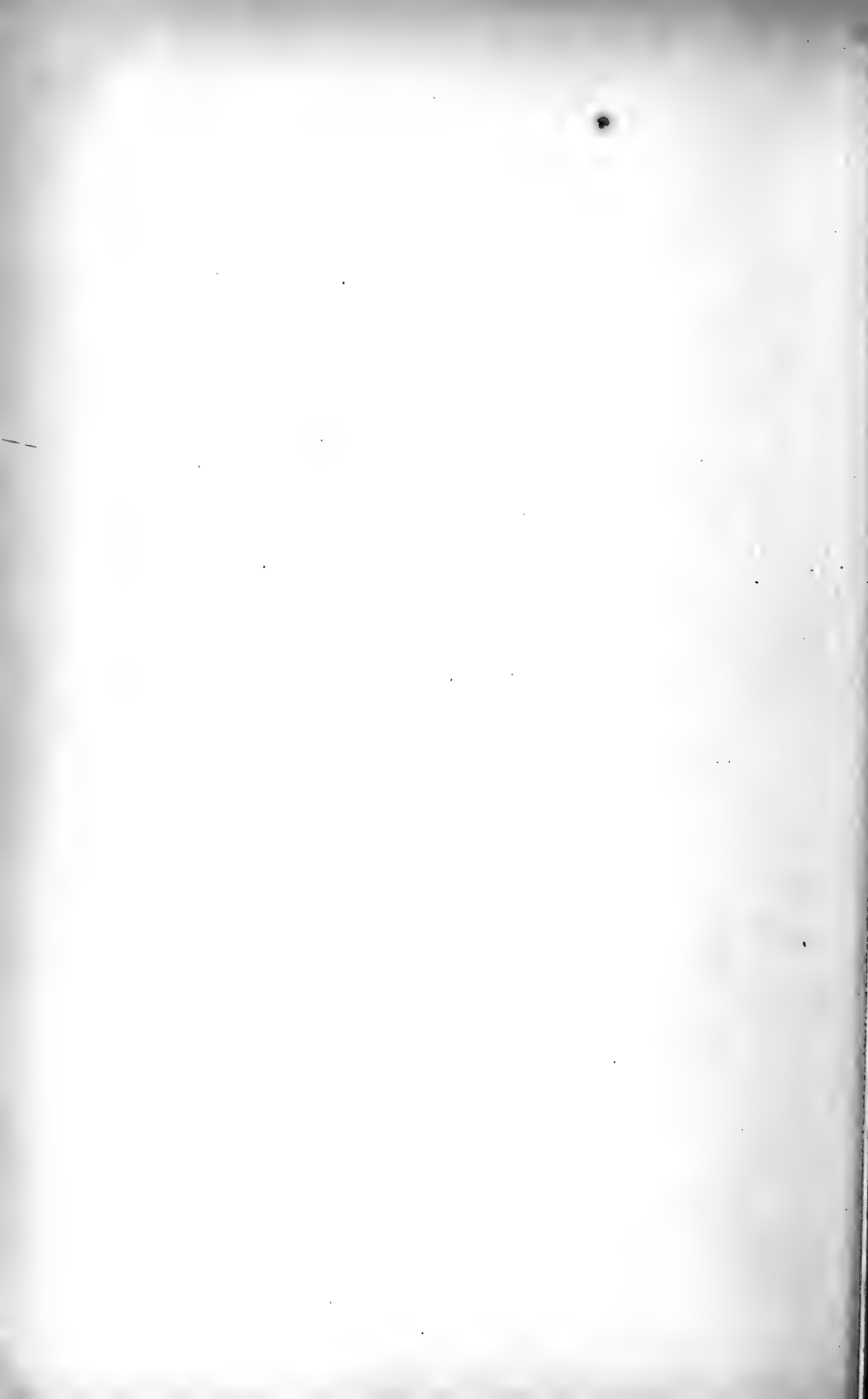
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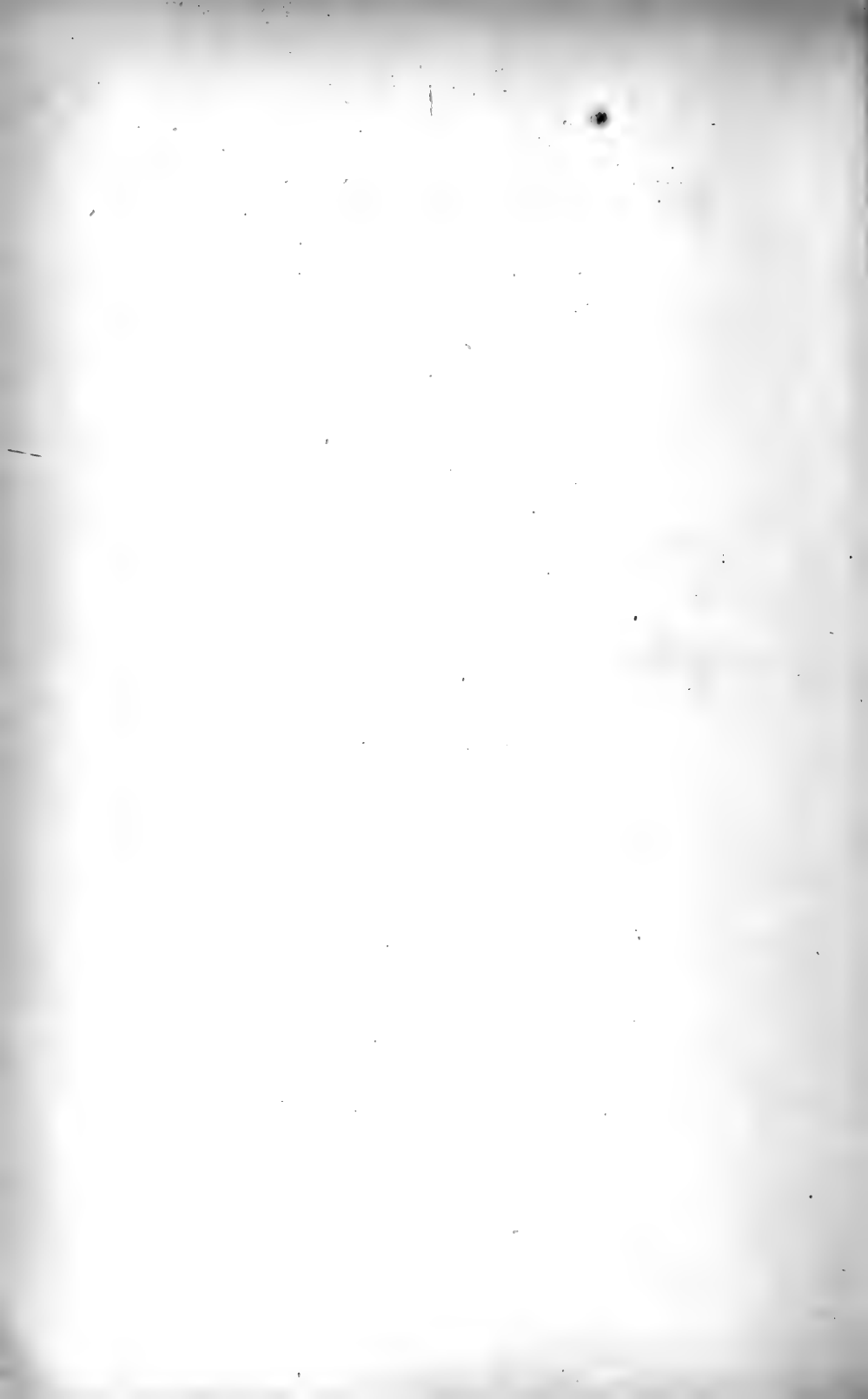
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