

hyalinis, 18-24 = 12-20 teleutosporis obscure cinnamomeis ellipsoideis, constrictulis, levibus non v. vix umbonatis, 24-28 = 18-20, 1-septatis, pedicello cylindræo deorsum attenuato, antice chlorinulo, ceterum hyalino 50-100 = 5, suffultis.

*Hab.* ad folia viva Chloridis cujusdam, Paraguari, Amer. austr. — Species sequens homonyma verisimiliter est etiam eadem: *Puccinia Chloridis* Dietel Hedw. 1892, p. 290: soris amphigenis, sparsis, minutis, ellipticis vel circularibus; uredosporis ovoideis, 20 = 15, membrana flaccida echinulata præditis; teleutosporis forma variis, breviter ellipticis v. oblongis, utrinque conoideo-attenuatis basi v. apice rotundatis, medio vix constrictis, membrana levi, 3  $\mu$ . cr., apice plerumque paulo incrassata instructis; sporis 27-43 = 18-22; pedicello firmo, supra infuscato 100  $\mu$ . ca. long. — In foliis Chloridis verticillatæ, Kansas, Amer. bor.

79. *Puccinia longicornis* Pat. et Har. Bull. Soc. Myc. 1891, p. 143. 1143

— Soris uredosporiferis, numerosis, sparsis, per epidermidem fissam erumpentibus, ochraceis, minutis, rotundatis; uredosporis globosis vel ovatis v. piriformibus, pedicellatis, echinulatis, melleis, episporio crasso 24-36 = 20-24, paraphysibus immixtis clavatis hyalinis; soris teleutosporiferis, sparsis, solidis, prominulis, rotundato-mammiformibus ad 1 mm. lat., ferrugineis; teleutosporis fusiformibus, ad septum leniter constrictis, dilute castaneis, appendicula obtusa, incrassata, hyalina, ad 30  $\mu$ . long., præditis, 80-120 = 14-20; pedicellis hyalinis, tenuibus, flexuosis, persistentibus, usque ad 200  $\mu$ .; soris utriusque forma hypophyllis.

*Hab.* ad folia Bambusæ in Japonia.

80. *Puccinia Schottmülleri* P. Henn. Hedw. 1893, p. 61, t. VII, f. 1. 1146

— Soris compactis, coriaceo-crustaceis, firmis, elevatis, rimosis, corticiiformibus 0,5-1 mm. cr., confluentibus, ad 10 cm. long. ad marginem liberis fere revolutis, subincrassatis, flavis v. alutaceis; uredosporis ellipsoideis, subglobosis v. ovoideis, apicibus rotundatis v. depressis, hyalino subflavescentibus, levibus, medio vix constrictis 24-35 = 21-28, episporio levi 2  $\mu$ . cr., pedicello filiformi, flexuoso, hyalino usque ad 350  $\mu$ . long., 2-2,5  $\mu$ . cr.

*Hab.* ad culmos vivos Bambusæ spec. in Japonia.

81. *Puccinia erythræensis* Pазschke in Henn. F. Æthiop. p. 109. — 1147

Soris hypophyllis, linearibus v. ellipticis, diutius tectis, maculas rubreas generantibus; uredosporis globosis v. oblongis pallide brunneis, episporio aculeis sparsis circ. 1  $\mu$ . alt. et crass. ornato præditis 24-35 = 24-28; teleutosporis oblongis, utrinque rotundatis, apice

interdum incrassatis, medio constrictis, levibus, brunneis 35-42 = 18-24; stipite hyalino persistente 40-80  $\mu$ . long. interdum laterali suffultis, paraphysibus clavatis, hyalinis usque ad 32  $\mu$ . long. et in superiore parte usque ad 17 cr. intermixtis.

*Hab.* in foliis vivis Andropogonis spec., in Colonia Erythræa Abyssiniæ.

82. **Puccinia Agropyri** E. et Ev. Journ. Myc. VII, 1892, p. 131. — 1118

Soris uredosporiferis epiphyllis, angustis, oblongis v. linearibus, brevibus, cinnamomeis, leniter elevatis; uredosporis subglobosis, ovoideis v. ellipsoideis, pallidis, 20-25 = 18-22, episporio crassiusculo et levi, breviter stipitatis; soris teleutosporiferis hypophyllis, oblongis v. linearibus, brevibus, nigris epidermide colorata fere semper obtectis; teleutosporis cylindraceo-clavatis, 60-75 = 20-25, modice constrictis, pallidis, truncatis, apice latioribus sed vix incrassatis, interdum oblique truncatis v. rotundatis aut etiam obtuse acuminatis, pedicello brevi suffultis.

*Hab.* in foliis Agropyri glauci, Montana Amer. bor.

83. **Puccinia montanensis** Ell. Descrip. new sp. Fung. Journ. of Mycol. 1893, pag. 274. — 1149

Soris teleutosporiferis sæpius linearibus et usque 1 cm. v. ultra confluentibus, copiosissimis, hypophyllis, nigris, primo epidermide tectis, mox nudatis, non prominulis, sæpius paraphysatis; teleutosporis ovoideis v. ellipsoideis, 25-50 = 15-22, subsessilibus, ad septum leniter constrictis, apice rotundatis v. applanatis, valde incrassatis, non papillatis, saturatius coloratis.

*Hab.* in foliis Elymi condensati, Helena, Montana Amer. bor. (F. D. KELSEY).

84. **Puccinia Distichlydis** E. et E. New sp. north Amer. Fung. in 1150

Proceed. Acad. S. N. Philad. 1893, p. 152. — Soris teleutosporiferis 2-10 = 1-2 mm., erumpentibus, nudis, fere nigris; teleutosporis oblongis v. oblongo-ellipsoideis, 45-70 = 15-20, medio constrictis, pallide brunneis dein saturate castaneis, episporio levi, apice incrassatis et regulariter rotundatis v. acuminatis; pedicello 80-100 = 6-7, valido, persistente, flavido-hyalino.

*Hab.* in Distichlyde maritima, Helena Montana, Americæ borealis.

85. **Puccinia Redfieldiæ** Trac. Descrip. new spec. Pucc. and Urom. Journ. 1151

Mycol. 1893, VII, 281. — Soris ovoideis, subinde lineari-confluentibus, nigris; teleutosporis atro-brunneis, late ellipsoideis v. ovoideis, constrictis, episporio levi, apice incrassato, 23-26 = 40-45; pedicello colorato, majusculo, spora duplo v. triplo longiore.

*Hab.* in foliis *Redfieldiæ flexuosæ*, Kansas Amer. bor.

(G. VASEY).

86. *Puccinia Bartholomewii* Dietel Hedw. 1892. p. 290. — Amphigena; soris nudis, pulvinatis, ellipticis v. oblongis,  $\frac{1}{3}$ -2 mm. long., interdum confluentibus; uredosporis globosis v. ovoideis, flavo-brunneis, dense et breviter echinulatis 24 = 22; soris teleutosporiferis fusco-atris; teleutosporis utrinque rotundatis, medio vix constrictis, apice parum incrassatis, levibus, longe pedicellatis (ad 140  $\mu$ .), obscure brunneis; sporis 32-40 = 20-24. 1152

*Hab.* in foliis *Boutelouæ oligostachyæ*, Kansas Amer. bor.

87. *Puccinia Agrostidis* Plowr. in Grev. Vol. 21, p. 110. *Æcidium* 1153  
*Aquilegite* Pers. Cfr. Syll. VII. pag. 776. — Soris uredosporiferis læte aurantiacis, elongatis v. linearibus, maculis flavidis insidentibus, amphigenis circ 1 mm. long.; uredosporis globosis v. ovoideis, hyalinis echinulatis, contentu aurantiaco, 20-25  $\mu$ . diam.; soris teleutosporiferis parvis, epidermide tectis, subinde elongatis, nunc annulatum dispositis, atro-brunneis; teleutosporis atro-brunneis, levibus, cylindræis v. subclavatis apice incrassato, truncato-rotundato, deorsum attenuatis, validiuscule constrictis, sessilibus 40-45 = 12-20.

*Hab.* æcidia in *Aquilegia vulgari*, uredosporæ et teleutosporæ in *Agrostide alba* et *A. vulgari* in Anglia.

88. *Puccinia Magelhænica* J. Peyr. in Magn. Die von Peyr. in Tirol. 1154  
gesamt. pag. 17. — Soris uredosporiferis amphigenis, parvis, rotundatis v. elongatis, subinde confluentibus, aureis, clavato-v. globoso-paraphysatis; uredosporis globosis v. ovoideis, 20,5-24,5 = 16,5-19,5; soris teleutosporiferis minutis, nigris, epidermide diu tectis, lineari-paraphysatis; teleutosporis loculo supero depresso, episporio leniter incrassato.

*Hab.* æcidia (*Æcidium Magelhænicum* Berk.) in *Berberide vulgari* uredosporæ et teleutosporæ in *Arrhenatero elatior* in Tirolia.

89. *Puccinia Aristidæ* Trac. Descr. new spec. Pucc. and Urom. Journ. 1155  
Mycol. 1893 VII. 281. — Raro amphigena, sæpe in facie interiore foliorum vaginæ; soris ex ovato anguste ellipsoideis, subinde confluentibus, ex epidermide lacera prominentibus; uredosporis brunneo-flavis, subglobosis v. ovoideis, episporio crasso, minute tuberculato, 23-27 = 23-32; teleutosporis dilute brunneis, late ovoideis, leniter constrictis, episporio levi, apice incrassato, 25-28 = 40-45; pedicello dilute colorato, attenuato, spora circ. duplo longiore.

*Hab.* in foliis *Aristida*e pungentis, Turkestan.

90. **Puccinia Tepperi** Ludw. in *Zeitschr. Pflanzenkr.* 1892, pag. 132. 1156

— Uredosporis ellipsoideis v. piriformibus, verrucosis, pallidis, 27-30 = 20-23, aparaphysatis; soris teleutosporiferis usque ad 3 cm. long., firmis, crasse pulvinatis, ellipsoideis, atro-brunneis; teleutosporis subcylindratis, basi rotundatis v. raro cuneatis, apice rotundatis v. subincrassatis, pallide flavido-brunneis v. luteolis, 45-65 = 20-23, episporio 2  $\mu$ . cr., pallide flavo-brunneo, levi, apice 5  $\mu$ . cr., contentu granuloso, valde constrictis; pedicello hyalino, 180-200  $\mu$  long., basi 2-3  $\mu$ . cr., apice 7-8  $\mu$ . cr.

*Hab.* in Phragmite communi prope Grange in Australia meridionali (J. C. O. TEPPER)

91. **Puccinia torosa** Thüm. *Mycoth. Un. n.* 1725, *Diagn. Mycoth. Univ.* 1157

*Cent.* XVI-XVIII, p. 5. *Zeitschr. Pflanzenkr.* 1892, p. 131, 133.

— Soris epiphyllis maximis, sparsis, 3 cm. long., 1.5 cm. lat., subcutaneis dein liberis, crassis, induratis, spadiceo-atris; teleutosporis tereti-clavatis, apice subtruncatis, medio profunde constrictis, 53-56 = 22-24; pedicello subhyalino 55 = 6.

*Hab.* in foliis vaginisque *Arundinis Donacis* in promontorio Bonæ Spei Africæ australis. (MAC OWAN).

92. **Puccinia virgata** E. et E. New sp. north Amer. *Fung. in Pro.* 1158

*ceed. Acad. S. N. Philad.* 1893, p. 154. — Soris teleutosporiferis amphigenis sed in hypophyllo diffusioribus, linearibus, sæpe 1 cm. v. ultra long. erumpentibus et epidermide lacera lateraliter marginatis, atro-castaneis; teleutosporis sæpe cuneatis, clavatis v. oblongis, 40-70 = 18-22, loculo supero brevior, ellipsoideo v. subgloboso, atro, infero longiore, angustiore et dilutius colorato, apice rotundatis, obtusis v. subtruncatis et subinde subrugosis; episporio apice incrassato sed non papillato.

*Hab.* in foliis emortuis *Panici virgati*, Rockport, Kansas Amer. bor.

93. **Puccinia Digraphidis** Soppitt, *Zeitschr. f. Pflanzenkr.* 1892, p. 343, 1159

*Æcidium Convallariæ* Schum. *Cfr. Syll.* VII, p. 828. — Uredosporis rotundatis, 23-25  $\mu$ . diam., raro ellipsoideis; teleutosporis 32-52 = 15-22.

*Hab.* in *Phalaride* prope Bremen Germaniæ. — Status uredo-teleosporus.

94. **Puccinia coronifera** Klebahn *Zeitschrift. für Pflanzenkr.* 1893, 1160

p. 135, t. III, f. 6-9. *P. coronata* Corda, *Cfr. Syll.* VII, p. 623, ex parte.

*Hab.* stat. teleut. in Lolio, Avena, Festuca, Holco. æcidia in Rhamno cathartica pr. Bremen. — Differt a *P. coronata* æcidiis in Rhamno nec in Frangula; soris amplioribus, sæpe flexuosis, uredosporis paullo majoribus, h. e. 18-24 = 12-17; teleutosporæ non differunt.

95. **Puccinia Phlei-pratensis** Eriks. et Henn. in Zeitschr. für Paras. 1161  
1894, p. 140. — Acervulis elongatis, confluentibus, atro-brunneis, erumpentibus; teleutosporis fusoido-clavatis, medio leniter contractis, rotundatis v. acutatis, castaneis 38-52 = 14-16; uredosporis oblongo-piriformibus, aculeolatis, flavidis, 18-27 = 15-19.

*Hab.* in foliis vaginisque Phlei pratensis in Dania et Succia. *Uredo* adest.

90. **Puccinia dispersa** Eriks. et Henn. in Zeitschr. für Parasitenk. 1162  
1894, p. 257. — Acervulis epidermide tectis, sparsis, brunneis; uredosporis globoso-ellipsoideis, aculeolatis, flavidis 19-29  $\mu$ . diam., teleutosporis plerumque hypophyllis, paraphysatis, clavatis, asymmetricis, breve stipitatis 40-50 = 14-18.

*Hab.* in Gramineis cultis pr. Stockholm. — *Acidium Anchusæ* est status æcidiosporus.

91. **Puccinia lateritia** Schwein. Journ. Acad. Scienc. 1853, p. 281 1163  
(Amer. bor.)

92. **Puccinia Lecokiæ** Kotschy in Ung. et Kotsch. Ins. Cypern. (in 1164  
Lecokia in Insula Cypro).

93. **Puccinia Solani** Schwein. Journ. Acad. Nat. Scienc. 1853, p. 281 1165  
(Amer. bor.)

94. **Puccinia Sydowiana** Zopf in Sydow Myc. march. n. 40 (Borussia?) 1166

95. **Puccinia Sinedrellæ** Lager. in Sydow Ured. n. 373 (in Sinedrella in Æquatoria). 1167

96. **Puccinia Wrightii** Berk. et Curt. in U. S. Expl. Exped. (Am. bor.) 1168

97. **Puccinia compacta** Kunze in Weigelt Exs. Ofr. Grev. XX, p. 110 1169  
(Surinam).

**UROPYXIS** Schröt. — Syll. VII, p. 735.

1. **Uropyxis Steudneri** P. Magn. Berich. d. deut. bot. Gesellsch. 1892, 1170  
p. 193, *Diorchidium Steudneri* P. Magn. Zwei neue Ured. p. 1, t. V, f. 1-11. — Soris teleutosporiferis amphigenis, pulvinatis, non pulverulentis, atro-brunneis; teleutosporis late ellipsoideis, 44,4 = 36, episporio minute verrucoso, stipite prælongo sub spora eximie globoso-inflato.

*Hab.* in foliolis Osmocarpi bibracteati in Abys. (STEUDNER).

2. **Uropyxis Naumanniana** Magn. Berb. Ured. p. 320, t. XIX, f. 8-12. 1171  
— Soris punctiformibus, sparsis; teleutosporis oblongis,  $50,2 \approx 19,4$ , exosporio dense minute verrucoso; stipite valde inflato,  $90 \approx 20$ , apice constricto.

*Hab.* in Berberide buxifolia in insula Desolationis Amer. austr.

**DASYSPORA** B. et C. — Syll. VII, p. 313.

1. **Dasyspora foveolata** B. et C., Syll. IX, p. 313, *Puccinia gregaria* 1172  
Kunze in sched. [in Herb. Brux.], *Puccinia Winteri* Pazschke Hedw. 1890, p. 157 (teste Magnus).

*Hab.* in foliis vivis Xylopiæ cujusdam in Brasilia; in foliis sempervirentibus plantæ incertæ gujanensis, Surinam, socio *Oidio parasitico* Kunze in sched. quod mihi videtur Erinei forma (WEIGELT, 1827). — Teleutosporæ cinnamomeæ,  $30-35 \approx 18-20$ , aciculis hyalinis,  $8-9 \approx 1$ , crebris eximie utrinque ornatae, breve decidue stipitatae.

**GYMNOSPORANGIUM** Hedw. — Syll. VII, p. 736, IX, p. 314.

1. **Gymnosporangium Nidus-avis** Thaxt. Bull. n. 107 Connect. Agr. 1173  
Stat. p. 6. — Spermogoniis subaurantiacis; æcidiis hypophyllis v. sæpius petiolicolis v. fructicolis, dense congestis, brunneis, primo subulatis dein fimbriatis, peridiis e basi divisis, segmentis paullum divergentibus; æcidiosporis levibus, globosis v. irregulariter ex ovoideo oblongis, circ.  $25 \mu$ . diam.; soris teleutosporiferis primo pulvinatis, irregulariter globosis v. ovoideis, saturate rubro-brunneis demum indefinite expansis, aurantiacis, teleutosporis 1-septatis late irregulariterque ex ovoideo subellipsoideis v. fusoides, apice rotundatis v. subattenuatis,  $55 \approx 25$ ; pedicellis primo apice inflatis.

*Hab.* spermogonia et æcidia in *Amelanchiere canadensi*, teleutosporæ in *Junipero virginiana*, Connecticut Amer. bor.

**PUCINIOSIRA** Lagerh. Berichte D. B. G. 1891, p. 344 (Etym. *Puccinia* et *seira* catena). — Teleutosporæ transverse 1-septatae, catenulatae, pseudoperidio cinctae, omnino hyalinæ, contentu subinde læte colorato. Æcidiosporæ et uredosporæ ignotæ. Evolutio tremelloidea.

1. **Puccinosira Triumfettæ** Lagerh. l. c. — Soris hypophyllis, erumpentibus, parvulis v. subelongatis; teleutosporis ovoideis v. subelongatis, medio constrictis, hyalinis, exosporio levi,  $21-30 \approx 12-16$ .

*Hab.* in foliis *Triumfettæ* in republica Æquatoriæ.

2. **Puccinosira Solani** Lagerh. l. c. — Soris hypophyllis v. petiolicolis dense gregariis, majusculis, rotundatis, aurantiacis; teleutosporis elongatis v. ovoideis, apice sæpe acuminatis, medio non constrictis, exosporio levi, apice incrassato, contentu aurantiaco, 45-54 = 21-30.

*Hab.* in foliis Solani sp. in republica Æquatoriæ.

**TRICHOPSORA** Lagerh. Ber. D. B. G. 1891, p. 347 (Etym. *thrix* pilus et *psora* ob formam cylindricam teleutosporarum). — Teleutosporæ calamiformes, inter se coalitæ, 1-septatæ, evolutione tenuiter 3-septatæ.

1. **Trichopsora Tournefortiæ** Lag. l. c. — Spermogoniis contentu rubro; soris teleutosporiferis inordinatis; teleutosporis 84-105 = 12-15, exosporio hyalino, apice incrassato, contentu aurantiaco.

*Hab.* in foliis, caulibus et floribus Taurnefortiæ sp. in republica Equatoriæ.

**CHRYSOPSORA** Lagerh. Berichte D. B. G. 1891, p. 345 (Etym. *chrysos* aurum et *psora*). — Evolutio tremelloidea; teleutosporæ transverse 1-septatæ, elongato-cylindrææ, quoque loculo (sæpius supero tantum) germinatione tenuiter 3-septato.

1. **Chrysopsora Gynoxidis** Lag. l. c. — Soris teleutosporiferis sæpius hypophyllis v. petiolicolis, plus minus pulvinatis, læte miniatis, annulos clausos regulares sæpius efformantibus; spermogoniis minute gregariis, contra soros teleutosporiferos appositis; teleutosporis elongato-cylindræeis, 195-200 = 30-40, medio subconstrictis, exosporio levi, hyalino; pedicello persistenti, longo, gelatinoso.

*Hab.* in foliis Gynoxidis pulchellæ in republica Equatoriæ.

**PHRAGMIDIUM** Link — Syll. VII, p. 742. IX, p. 315.

1. **Phragmidium circumvallatum** Magn. in Berichte der deutsch. bot. Gesell., 1894, p. 84. — Soris teleutosporiferis hypophyllis, maculiformibus, nigris, paraphysibus elongato-inflatis, circ. 100  $\mu$ . long., 1-seriatis cinctis; teleutosporis plerumque 4-5-septatis, raro 2-3-septatis v. continuis, loculis poris 3 germinativis præditis, loculo supero in apicem subulatum, hyalinum, 9-12  $\mu$ . producto, 68-79 = 30, stipite crasso, truncato, deorsum verrucoso-incrassato, 66  $\mu$ . long. suffultis.

*Hab.* in foliis Gei heterocarpi prope Egon in Armenia turcica.

2. **Phragmidium Laceianum** Barcl. Addit. Ured. 220, t. 4, f. 3. — Pu- 1179  
 stulis uredineis, hypophyllis, læte aurantiis, copiosis, discretis, sub-  
 circularibus; uredosporis ovoideo-piriformibus, læte aurantiis, spi-  
 nosis, 20-24 = 16-18; pustulis teleutosporeis nigricantibus, orbicu-  
 laribus, hypophyllis; teleutosporis 5-ocularibus, levibus, apice ro-  
 tundatis, incrassatis, minute papillatis, 94-130 = 40-50.

*Hab.* in foliis *Potentillæ argyrophyllæ* pr. Simla Indiæ  
 (LACE).

3. **Phragmidium biloculare** Diet. et H. Bot. Gaz. 1894, p. 305. — Soris 1180  
 hypophyllis et cauli-petiolicolis, uredineis aurantiacis, uredosporis  
 ovoideis 22-30 = 15-23 laxe papillosis; soris teleutosporeis atro-  
 brunneis; teleutosporis typice bilocularibus, rarius trilocularibus,  
 ellipsoideis, utrinque rotundatis, flavo-brunneis, grosse tuberculatis  
 (subinde sublevibus) 39-44 = 20-28; stipitibus hyalinis, 60  $\mu$ . longis.

*Hab.* in *Potentilla gelida*, Skamania count. Amer. bor.  
 (SUKSDORF).

4. **Phragmidium nepalense** Barcl. Addit. Ured. 220, t. 4, f. 2. — Pu- 1181  
 stulis uredineis subcircularibus, aurantiis, hypophyllis; sporis glo-  
 boso-ovoideis 22-28 = 17-22, levibus; soris teleutosporeis minoribus,  
 nigricantibus; teleutosporis atro-brunneis, bi-quinque-ocularibus  
 plerumque 4-ocularibus, minutissime papillatis, 60-68 = 24-26, longe  
 stipitatis.

*Hab.* in foliis *Potentillæ nepalensis*, Mattiana pr. Simla  
 Indiæ.

5. **Phragmidium octoloculare** Barcl. Addit. Ured. 221, t. 4, f. 1. — 1182  
 Pustulis teleutosporeis hypophyllis, orbicularibus, atris; teleuto-  
 sporis plerumque 8-ocularibus, grosse tuberculatis, apice minute  
 hyalino-papillatis, ad septa leviter constrictis, 94-130 = 23-25.

*Hab.* in foliis *Rubi rosæfolii* pr. Simla Indiæ.

6. **Phragmidium tuberculatum** Müll. Syll. Fung. VII, p. 747. — var. 1183  
*Rosæ-arvensis* Mass. Contrib. Flor. Veron. p. 137. — Soris teleu-  
 tosporiferis epicaulinis, late subpulvinatis, primum epidermide bul-  
 lata tectis dein rimose erumpentibus; teleutosporis cylindraceutis,  
 atro-fuscis, verrucosis, 3-5-septatis, apice rotundatis, mucronulo  
 hyalino sæpe abrupte apiculatis, 40-82 = 28-32, stipite hyalino 100-  
 120  $\mu$ . long. e medio ad basim clavato-incrassato (ubi 20-22  $\mu$ . cr.)

*Hab.* in ramulis pedunculisque *Rosæ arvensis* prope Tre-  
 gnago, Italia boreal.



**XENODOCHUS** Schlecht. — Syll. VII, p. 750.

1. **Xenodochus Clarkianus** Barcl. Addit. Ured. 222, t. 4, f. 4 e 5. — 1184

Soris æcidialibus deformantibus, læte aurantiis; sporis oblongo-cuboideis dense verrucosis 26-31 = 22-26; soris teleutosporicis serius orientibus, nigricantibus, nudis; teleutosporis cylindraceutis, 4-locularibus, loculis 16 = 3, pallide brunneis.

*Hab.* in foliis *Astilbis rivularis* in silva Cheog pr. Simla Indiæ (Doct. CLARK). — Teleutosporæ subinde longitrorsum divisæ, hinc species atypica.

**ROSTRUPIA** Lag. — Syll. IX, p. 316.

1. **Rostrupia Scleriæ** Pазschke Hedw. 1892, p. 96. — Soris uredo- 1185

sporiferis epiphyllis, sparsis, rotundatis, tectis, maculas fuscas indeterminatas generantibus; soris teleutosporiferis hypophyllis, sparsis, rotundis, longe v. semper tectis; uredosporis ovalibus, aculeis sparsis crassiusculis ornatis, pallide ochraceis 20-27 = 16-20; teleutosporis cylindraceutis, biseptatis, rectis v. parum curvulis, ad septa parum constrictis, vertice non incrassatis, apiculatis, pallide fuscis 54-75 = 11-14, pedicello brevi brunneo suffultis.

*Hab.* ad folia viva *Scleriæ* spec. Itajahy, in Brasilia.

2. **Rostrupia Schweinfurthii** P. Henn. F. Afr. I, p. 371 (*Pucciniastrum*) 1186

*Puccinia Schweinfurthii* (Henn.) Magn. Ured. Col. Erit. p. 44, c. iconib. — Maculis flavis; soris teleutosporiferis rotundatis sæpissime in crustam confluentibus, hypophyllis, clavatis, fusco-brunneis v. fusco-olivaceis; teleutosporis 2-5-locularibus, irregularibus, polymorphis, constrictis, oblongo-clavatis v. fusiformibus, ochraceis 30-80 = 10-24; loculis clavatis, cuboideis v. breviter cylindraceutis, diversa longitudine, loculo superiore obtuso v. apice 1-9 dentibus acutis, palmatis v. stellato-radiatis coronato, rarissime lateraliter 1-apiculato; loculo inferiore plerumque cuneato v. elongato-clavato, pallidiore sæpe hyalino; pedicello flavescenti, hyalino 2-11 = 2-5; episporio levi, 1-3  $\mu$ . cr. ochraceo.

*Hab.* ad folia *Rhamni Staddo* in Abyssinia.

**COLEOSPORIUM** Lév. — Syll. VII, p. 751. IX, p. 317.

1. **Coleosporium Pini** Gall. Journ. of Myc. 1891, p. 44. — Amphi- 1187

genum; maculis flavis, 4-25 mm. v. ultra long.; soris rubido-aurantiacis, 1-5 mm. long. v. dum confluentibus usque ad 10 mm. v. ultra; teleutosporis irregulariter clavatis, levibus, 1-3-septatis, 70-125 = 18-25.

*Hab.* in foliis Pini inopis pr. Washington Amer. bor.

**CHRYSOMYXA** Ung. — Syll. VII, p. 759, IX, p. 317.

1. **Chrysomyxa Arctostaphyli** Diet. Bot. Gaz. 1894, p. 303. — Soris 1188  
hypophyllis, congregatis, depressis, forma irregularibus, 160-240  $\mu$ .  
crassis; sporis oblongis, 18  $\mu$ . long.

*Hab.* in foliis, quæ brunneo maculantur, *Arctostaphyli* Uvæ-  
Ursi, Wisconsin Amer. bor. (DAVIS).

2. **Chrysomyxa Chiogenis** Diet. Bot. Gaz. 1894, p. 303. — Maculis 1189  
flavidis v. nullis; soris hypophyllis sparsis; soris uredineis melleis;  
uredosporis catenulatis, ovoideis, 22-29 = 15-21, subhyalinis, verru-  
cosis; soris teleutosporeis aurantiacis. cereis, 95-120  $\mu$ . crass.; teleu-  
tosporis 8-12  $\mu$ . diam.

*Hab.* in *Chiogene serpyllifolia*, Wisconsin Amer. bor.  
— *C. Pirolæ affini*.

**TRIPHFRAGMIUM** Link — Syll. VII, p. 768, IX, p. 318.

1. **Triphragmium Cedrelæ** Hori in Yatabe Icon. fl. japon. I, 2, (1892) 1190  
p. 150, t. 38, f. B 1-4. — Soris uredosporiferis amphigenis, sparsis  
maculas rubras efficientibus, aurantiacis, pulverulentis; uredosporis  
globosis, 17-21  $\mu$ . diam., aurantiacis, granulosis, echinulatis; soris  
teleutosporeis, amphigenis, sparsis, irregulariter gregariis, pulve-  
rulentis, atris; teleutosporeis subglobosis, radiatim trilocularibus, ad  
septa constrictis, obscure brunneis, granuloso-farctis, 35-40  $\mu$ . diam.,  
primo hyalinis et guttulas brunneas foventibus, loculis binis supe-  
rioribus, episporio processibus semel vel bifurcis, brunneolis ad  
7  $\mu$ . longis exorato, pedicello hyalino, cylindræo, incurvo, ru-  
guloso, 30-70 = 5-10.

*Hab.* in foliis vivis *Cedrelæ sinensis* in horto botanico  
Tokyo et ad Honjo Japoniæ (S. HORI). — E sectione *Hemitri-*  
*phragmii*.

**SPHÆROPHRAGMIUM** Magn. Ber. d. deut. bot. Gesell. 1891, p. 121,  
t. VI, f. 18-26 (Etym. *sphæra* et *phragma* septum). — Teleuto-  
sporæ 4-pluriloculari-clathratæ, ovato-sphæroideæ. Cetera *Tri-*  
*phragmii*.

1. **Sphærophragmium Acaciæ** (Cooke) Magn. l. c. *Triphragmium* 1191  
*Acaciæ* Cooke — Syll. VII, p. 769. — Teleutosporeæ 6-9-cellulari-  
clathratæ, eximie glochidiato-spinosæ.
2. **Sphærophragmium Dalbergiæ** Dietel, Hedw. 189, p. 30. — Soris 1192

uredosporiferis hypophyllis, singulis macula flavida insidentibus vix 200  $\mu$ . diam., basi folii parenchymate laxo immersis initio epidermide tectis dein ea annulatim cincta; uredosporis ex ovoiden piriformibus, pallide brunneo-flavidis, exosporio tenui, breviter remoteque aculeato, poris 2 germinantibus prædito, obvolutis 23-35 (rarius ultra)  $\approx$  13-20, paraphysibus copiosis, pallide flavidis, sursum non incrassatis, medio transverse septatis, circ. 9  $\mu$ . cr.: scriis teleutosporiferis magnitudine seros præcedentes non superantibus telentosporis 4-8-cellulari-muriformibus, subquadrangularibus, exosporio verrucis conicis tecto cinctis, 36-43  $\approx$  32-43, atro-brunneis pedicello æquilongis

*Hab.* in foliis Dalbergiæ armatæ ad inanda Natali Africæ occid.

**RAVENELIA** Berk. — Syll. VII, p. 770, IX, p. 318 — Notas diagnosticas paucissimas rebus; exstat enim generis absoluta monographia, iconibus illustrata, cl. DIETELII in Hedw. 1894, quæ *necessario* comparanda est.

1. *Ravenelia appendiculata* Lagerh. et Diet. Hedw. 1894, p. 65, f. 18. 1193  
*Hab.* in foliis Phyllanthi in Æquatoria. — Capitula 60-80  $\mu$ . diam., in diametro 4-5-spora; sporæ 18  $\mu$ . diam.
2. *Ravenelia pygmæa* Lagerh. et Diet. Hedw. 1894, p. 67, f. 19. 1194  
*Hab.* in Phyllantho? pr. Guayaquil Æquatoriæ. — Capitula 3-8-spora, 32-55  $\mu$ . diam.; uredosporæ 22-29  $\approx$  16-20.
3. *Ravenelia texensis* Ell. et Gall. in Diet. Hedw. 1894, p. 63, f. 13. 1195  
*Hab.* in Desmantho, Texas, Amer. bor. — Capitula 55-60  $\mu$ . diam., in diametro 5-6-spora.
4. *Ravenelia Lonchocarpi* Lagerh. et Diet. Hedw. 1894, p. 67, f. 17. 1196  
*Hab.* in foliis vivis Lonchocarpi campestris in Brasilia. — Capitula 60-100  $\mu$ . diam.; sporæ in quoque diametro 4-5, castaneæ 20  $\mu$ . diam.
5. *Ravenelia Holwayi* Diet. Hedw. 1895, p. 61, f. 26. 1197  
*Hab.* in Prosopide juliflora in California — Capitula 75-105  $\mu$ . diam. in quoque diametro 5-6-spora.
6. *Ravenelia Entadæ* Lagerh. et Diet. Hedw. 1894, p. 62, f. 9. 1198  
*Hab.* in Entada polystachya, Panama. — Capitula 100-130  $\mu$ . diam. in quoque diametro 7-9-spora.
7. *Ravenelia versatilis* (Peck) Diet. Hedw. 1894, p. 38 et 368, f. 11. 1199  
*Uromyces* Peck — Syll. VII, p. 582.  
*Hab.* in Acacia Greggii et forte etiam in A. micrantha

in California Mexico et Arizona. — Capitula castanea, 60-90  $\mu$ . diam., in diametro 5-7-spora; sporæ 14-19  $\mu$ . diam.

8. **Ravenelia Farlowiana** Diet. Hedw. 1894, p. 369.

1200

*Hab.* in foliis *Acaciæ anisophyllæ* et *A. crassifodiæ* in Mexico (PRINGLE). — Capitula castanea, subhemisphærica 85-105  $\mu$ . diam. ex 7-9 sporis in diametro formata; sporæ 10-16  $\mu$ . lat.

9. **Ravenelia decidua** (Peck) Holw., Diet. Hedw. 1894, p. 370, *Uromyces deciduus* Peck 45 Rep. p. 25 (status uredineus).

1201

*Hab.* in foliis *Prosopidis pubescentis* in Amer. bor. — Ab affini *R. Holwayi* uredosporis multo minoribus, 24-34 = 11-14, recedit.

- 10 **Ravenelia mexicana** Tranzschel et Dietel in Hedw. 1894, p. 370.

1202

*Hab.* in foliis *Calliandræ grandifloræ* in Mexico (PRINGLE). — A *R. echinata* et *R. Lagerheimiana* forma appendicularum, sporarum et numero (15-20) sporarum, ex quibus capitula conflata sunt, facile distinguenda species.

11. **Ravenelia Indigoferæ** Tranzschel et Dietel Hedw. 1894, p. 369.

1203

*Hab.* in foliis *Indigoferæ Palmeri* in Mexico (PRINGLE). — A *R. Tephrosiæ* capitulis sporarum minoribus et altius verrucosis distinguenda; sporæ in diam. 4-6, castaneæ, 21-27  $\mu$ . lat.

12. **Ravenelia Volkensii** P. Henn. in Diet. Hedw. 1894, p. 62, f. 28.

1204

*Hab.* in *Acaciæ* spec. in Usambara Africæ orient. — Capitula 45-75  $\mu$ . diam., ex 10-20 sporis constantia.

13. **Ravenelia inornata** Diet. Hedw. 1894, p. 61, f. 25.

1205

*Hab.* in *Acacia horrida* in apice Bonæ Spei. — Capitula 120-175  $\mu$ . diam. in quoque diametro 8-11-spora; *Æcidium inornatum* Kalchbr. Syll. VII, p. 787 est hujus status æcidiosporus.

14. **Ravenelia Mac-Cwaniana** Pazschke in Diet. Hedw. 1894, p. 59, f. 4.

1206

*Hab.* in foliis *Acaciæ horridæ* in capite Bonæ Spei. — Capitula 60-120  $\mu$ . diam. in quoque diametro 4-7-spora. *Æcidium ornamentale* Kalchbr. forte status æcidiosporus.

15. **Ravenelia Albizziæ** Diet. in Hedwigia 1894, vol. 33, p. 23, f. 22.

1207

*R. minima* Sacc. Fung. Abyss. Penzig. p. 3, fig. 2, nec Cooke.

*Hab.* in foliis *Albizziæ* in Abyssinia (PENZIG). — Differt a *R. minima* Cooke capitulis teleutosporiferis 12-18-sporis, stipite composito.

16. **Ravenelia Woodii** Pazschke in Diet. Hedw. 1894, p. 48, fig. 20.

1208

*Hab.* in foliis *Leguminosæ* cujusdam in capite Bonæ Spei (WOOD). — Paraphyses apice 10-20  $\mu$ . cr.; capitula 115-140  $\mu$ . diam.; sporæ circ. 6 in quoque diametro, 17-30  $\mu$ . diam.

17. **Ravenelia Lagerheimiana** Diet. Hedw. 1894, p. 65, f. 15. 1209  
*Hab.* in foliis *Calliandræ* in Æquatoria. — Capitula 56-65  $\mu$ . diam. ex decem sporis composita.
18. **Ravenelia echinata** Lagerh. et Diet. Hedw. 1894, p. 65, f. 16. 1210  
*Hab.* in foliis *Calliandræ* in Æquatoria. — Capitula 60-70 = 55-62, plerumque 14-spora.
19. **Ravenelia microcystis** Pазschke Hedw. 1894, p. 65, fig. 8. — 1211  
 Soris subcuticularibus, epiphyllis, maculas rufo-fuscas generantibus; soris uredosporiferis parvis, in annulos concentricos dispositis, plus minusve confluentibus; uredosporis oblongis v. ovatis, aculeatis, flavo-brunneis 17-24 = 9-12; soris teleutosporiferis irregulariter dispersis, non concentricè dispositis, parvis, nigris; capitulis orbicularibus planiusculis, levibus, castaneis 8-10-sporis, 58-123  $\mu$ . diam.; teleutosporis unicellularibus 5-6 angulatis, 12-14  $\mu$ . lat.; cystis (eodem numero quo sporæ) globosis, parvis; hyphis fulciantibus in stipitem compositum non conjunctis.  
*Hab.* in foliis vivis *Cassiæ* in Brasilia.
20. **Ravenelia cassiæcola** Atkins, Bot. Gaz. 1891, p. 313, Diet. Hedw. 1212  
 1894, p. 60, fig. 23. — Caulicola v. hypophylla; soris ad folia rotundatis v. oblongis, 1 mm. long., ad caules oblongis, sæpe per cm. 1-10 v. ultra confluentibus; pseudo-peridio e cellulis arcte cohærentibus, angulosis, parvis, flavido-brunneis efformato; uredosporis hyalinis, sordide flavis v. fulvis, ovoideis v. rotundis, minute asperulatis, 9-13 = 12-16; teleutosporis e fulvo atro-brunneis, 30-100  $\mu$ ., e loculis 5-30, cuneatis, 18-23 = 20-30, extus spina brevi, hyalina sæpe præditis, efformatis.  
*Hab.* in *Cassia nyctitante*, Anhurn, Alabama Amer. bor.

**ALVEOLARIA** Lagerh. Ber. D. B. G. 1891, p. 346 (Etym. ab *alveolo*).  
 — Teleutosporæ tantum notæ, discoideæ, e loculis numerosissimis, prismaticis, verticalibus, constitutæ. Evolutio tremelloidea.

1. **Alveolaria Cordiæ** Lag. l. c. — Soris hypophyllis v. petiolicolis, 1213  
 rotundis, sæpe annulos concentricos efformantibus v. elongatis, columnaribus; teleutosporis 120-150  $\mu$ . diam., 40-50  $\mu$ . alt., loculis 30-60, prismaticis, 15-24  $\mu$ . diam., exosporio levi et flavido, contentu hyalino.  
*Hab.* in foliis *Cordiæ* sp. in republica Æquatoriæ.
2. **Alveolaria andina** Lagerh. Ber. D. B. G. 1891, p. 347. — Teleu- 1214  
 tosporibus 180-210  $\mu$ . diam., circ. 70  $\mu$ . alt., loculis valde numerosis, contentu læte aurantiaco.

*Hab.* in foliis *Cordia* sp. in republica *Æquatoria*.

**ÆCIDIDIUM** Pers. — Syll. VII, p. 774, IX, p. 319.

1. **Æcidium Englerianum** P. Henn. et Lind. F. *Æthiop.* I, p. 110, 1215  
Lindau Bemerk. *Æc.* Engler. p. 43, t. II. — *Æcidii*s amphigenis  
et cauliculis; pustulis magnis, duris, diverse efformatis, evolutis  
globosis, lobato-racemosis v. cornuformibus usque ad 5 cm. diam.  
ochraceis; pseudoperidiis primo obtectis dein apertis, discoideo-cu-  
pulatis, margine crasso involuto, ochraceo-flavis, usque ad 1 mm.  
diam.; *æcidiosporis* ellipsoideis, subglobosis v. ovoideis, polygoniis,  
flavis 20-28 = 16-21.

*Hab.* in foliis vivis caulibusque *Clematidis* spec., in Abyssinia.

2. **Æcidium Solms-Laubachii** Boy. et Jacz. Mat. Mycol. Montpellier. p. 23. 1216

*Hab.* in *Adonide* æstivali, Saint-Martin-de-Londres pr.  
Montpellier (SOLMS LAUBACH). — Sporæ 22,5 = 17,5.

3. **Æcidium orbiculare** Barcl. Addit. Ured. 227, t. 4, f. 6. — Cauli- 1217  
foliicolum, hypertrophias majusculas gignens; pseudoperidiis ela-  
tis cylindræis, ore minute serrato 0,7 mm. long.; *æcidiospo-*  
*ris* aurantiacis verrucosis, globoso-ovoides v. angulosis, 19-25 =  
14-20.

*Hab.* in *Clematide* grata, *C. orientali*, *C. puberula*  
pr. Simla Indiæ (LACE et WATT).

4. **Æcidium circinans** Erikss. in Bot. Centralbl. 1891, n. 36, p. 297. — 1218

Maculis parvis, orbiculatis, per totam folii superficiem sparsis, su-  
perne luteis et centro spermogoniferis, inferne *æcidii*feris; pseudo-  
peridiis 10-30 circinatim dispositis, non confluentibus, poculifor-  
mibus, longis, margine vix revoluta partitoque, albidis; *æcidiosporis*  
pallidis 18-25  $\mu$ . diam.

*Hab.* in foliis *Aconiti Lycoctoni* in Scandinavia. — Hoc  
*Æcidium* videtur idem esse ac *Æcidium Aconiti-Napelli* (DC.)  
in Rabenh. Winter Fung. Europ. n. 2627, teste ipso auctore.

5. **Æcidium Æthionematis** P. Magn. Beitr. Pilze Kleinasien p. 491, 1219  
fig. 3-6. — *Æcidii*s hypophyllis, sparsis v. dense gregariis, minu-  
tis; *æcidiosporis* episporio levi, 16-17  $\mu$ . diam.

*Hab.* in foliis *Æthionematis Buxbaumii* pr. Amasia in  
Asia Minore.

6. **Æcidium erectum** Dietel Hedw. 1892, p. 291. — Peridiis in utra- 1220  
que pagina foliorum et in caulibus interdum paulo deformatis, ma-  
culis sæpe purpureis insidentibus, densiuscule gregariis, cylindri-  
cis, rectis, margine irregulariter denticulato v. integro; *æcidiospo-*

ris polyhedricis, aurantiacis, membrana achroa, subtilissime verrucosa præditis, 18-20 = 16-18.

*Hab.* in foliis et caulibus *Sedi reflexi*, pr. Bozen, in Tirolia.

7. *Æcidium Cunninghamianum* Barcl. Addit. Ured. 224, t. 4, f. 7. — 1221

Acervulis epiphyllis; pseudoperidiis prælongis, cylindricis, 3-5 mm. long.; æcidiosporis globoso-ovoideis, obtuse verrucosis, 26-28 = 24-28; cellulis peridialibus elongatis, spinulosis 58-60 = 24-26.

*Hab.* in foliis *Cotoneastri bacillaris* pr. Simla Indiæ. — Status *Gymnosporangii*.

8. *Æcidium Rosæ-abyssinicae* P. Henn. F. *Æthiöp.* I, pag. 111 — 1222

Æcidiis hypophyllis, singularibus, valde sparsis, rotundatis, usque ad 3 mm. diam.; maculis luteis violaceo-marginatis; pseudoperidiis confertis, pallide flavis, paraphysibus hyalinis usque ad 35  $\mu$ . long. non involutis; æcidiosporis subglobosis, ellipsoideis raro subclavatis, acutangulis, hyalino-flavescentibus, dense verrucosis, 15-35 = 18-24.

*Hab.* in foliis vivis *Rosæ abyssinicae*, in Abyssinia.

9. *Æcidium Arunci* DC. Fl. Franc. 3 éd. II, p. 243. — Pseudoperi- 1223

diis gregariis, hypophyllis, macula sordide flava insidentibus, exiguis primum mamillatis, obtuse conicis, demum cupulato-cylindraceis, ore recto v. vix reflexo, leniter vel non fimbriato, pallide luteis; æcidiosporis globosis vel rotundato-polygonis, episporio hyalino crassiusculo, dense et tenuiter muricato, plasmate luteolo granuloso, 20-24  $\mu$ . diam.

*Hab.* ad folia *Spirææ Arunci*, in Gallia.

10. *Æcidium Cytisi* Voss Mat. Pflz. Krain, V, p. 239. — Pseudope- 1224

ridiis gregariis, hypophyllis, plerumque in circulum dispositis; in macula lutea v. fusca, raro in petiolis et pagina superiore, ore albo dilacerato; æcidiosporis globosis v. polygoniis, episporio levî, crasso, hyalino, nucleo luteo, 22-24  $\mu$ . diam. v. 31  $\mu$ . long.

*Hab.* ad folia *Cytisi hirsuti* in Carnioliâ.

11. *Æcidium Lupini* Peck 46 Rep. p. 33. — Maculis numerosis par- 1225

vis, orbicularibus, primo flavido-viridibus, demum purpureo-brunneis; spermogoniis epiphyllis, centralibus; æcidiis hypophyllis, confertis, brevibus; æcidiosporis globosis, verruculosis, aurantio-flavis, 25-40  $\mu$ . lat.

*Hab.* in foliis vivis *Lupini perennis*, Karner Amer. hor.

12. *Æcidium Cassiæ* Bres. Rev. Myc. 1891, p. 66. — Æcidiis hy- 1226

pophyllis in greges suborbiculares collectis, 2-3 mm. diam.; pseudoperidiis dense gregariis, adpressis, cupulatis, margine subfim-

briato, pallide aurantiacis, intus flavidis; æcidiosporis flavidis, subglobo-angulatis, 20-30 = 20-22.

*Hab.* ad folia Cassiæ occidentalis, in insul. S. Thomæ Africæ. — An *Æc. Cassiæ* Ell. et K. North Am. Fungi n. 1825 (in Amer. boreali) idem sit, nescio.

13. *Æcidium Talini* Speg. Fl. Guar. nonn. p. 24, n. 67. — Pseudo- 1227  
peridiis maculiculis, epiphyllis, dense aggregatis, minutis, orbiculatim dispositis, albo-cremeis; cellulis membranæ minute papillatis 20-25 = 10-15; æcidiosporis globosis vel obtuse angulosis, 16-17  $\mu$ . diam.

*Hab.* ad folia viva Talini patentis pr. Posta-cuè, Amer. austr.

14. *Æcidium Peyritschianum* P. Magn. Die von Peyr. in Tirol. ge 1228  
samml. Pilze pag. 34. — Spermogoniis plus minus in macularum centro dispositis; æcidiis hypophyllis, dense gregariis, pseudoperidio subregulari.

*Hab.* in Oxalide corniculata pr. Bozen Tirolis.

15. *Æcidium xanthoxylinum* Speg. Fl. Guar. p. 24, n. 68. — Maculis 1229  
orbicularibus, amphigenis, rufescentibus, subdeterminatis, 5-6 mm. diam.; pseudoperidiis hypophyllis, concentricè denseque gregariis, minutis, flavescentibus, 250-800  $\mu$ . diam.; æcidiosporis subglobo-levibus 16-18  $\mu$ . diam.

*Hab.* ad folia viva Xanthoxyli cujusdam prope Paraguai Amer. austr.

16. *Æcidium Garckeanum* P. Henn. F. Afr. p. 372. — Maculis flavis 1230  
rotundatis; pseudoperidiis hypophyllis immersis in greges dispositis, albis, tenerrimis, cupulatis v. cupulato-cylindræis, margine reflexo laciniatis; æcidiosporis subglobo- v. ellipsoideis, polyhedricis, hyalinis, granulatis 24-27  $\mu$ . diam. episporio hyalino 2  $\mu$ . cr.

*Hab.* ad folia Hibisci micranthi et H. crassinervii in Abyssinia.

17. *Æcidium Malvastri* Ell. et Trac. Journ. of Myc. 1891. p. 43. — 1231  
Hypophyllum; maculis dilute flavis; æcidiis gregariis, subcircinatis, brevibus, margine expanso angusto; æcidiosporis subglobo- v. ovoideis, episporio tenui, minute tuberculato, 15-18 = 18-22; spermogoniis ignotis.

*Hab.* in foliis Malvastri Munroani, Albuquerque, New Mexico Amer. bor. (TRAGY).

18. *Æcidium Gauræ* E. et E. New West Amer. Fung. in Erythea 1232  
p. 205. — Maculis amphigenis, suborbicularibus, 3-8 mm.



supra rubido-purpureis, dein flavis et rubido-purpureo-cinctis; spermogoniis melleis v. flavis, prominentibus, maculas in epiphyllis occupantibus; æcidiis hypophyllis, innato-erumpentibus, confertis,  $\frac{1}{4}$ - $\frac{1}{2}$  mm. parvis, mox apertis et lacero-marginatis; æcidiosporis globosis, levibus, 14-17 diam., aurantiacis.

*Hab.* in foliis *Gauræ parvifloræ*, Fort Collins Amer. bor.

19. *Æcidium Ludwigæ* E. et E. New sp. north Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, pag. 155. — Maculis amphigenis, supra purpurascentibus, subtus obscurioribus, sparsis v. subconfluentibus, 1-3 mm. diam.; æcidiis amphigenis, in hypophyllo copiosioribus, solitariis v. sæpius in tubercula 1-2 mm. diam. aggregatis, minutis,  $\frac{1}{4}$  mm. diam., margine sublacero-dentato, suberecto, cellulis subquadrangularibus v. pentagoniis, circ. 15  $\mu$ . diam., marginalibus 20  $\mu$ . diam.; æcidiosporis aurantiacis, subglobosis v. subangularibus, 12-15  $\mu$ . diam.

*Hab.* in foliis *Ludwigæ sphaerocarpeæ*, Ellendale, Sussex Amer. bor.

20. *Æcidium Œnotheræ* Mont. Fl. Chil. VIII, 37. — Pseudoperidiis amphigenis, præcipue hypophyllis, cupulatis, parum præminentibus, margine recto v. vix reflexo, obscure et tenuissime simbriato, ochraceo-flavo; spermogoniis æcidiis mixtis; æcidiosporis rotundis, hyalinis, episporio tenui, plurinucleatis, levibus, 12-16  $\mu$ . diam.

*Hab.* ad folia *Œnotheræ tenellæ*, in Chili Amer. austr. — Cfr. Syll. VII, p. 789, ubi diagnosis e Montagnei Syll. deprompta satis differt a præsentem, quæ e Mont. Flora chilensi exit.

21. *Æcidium Aschersonianum* P. Henn. Malpighia 1891, pag. 89. — Pseudoperidiis numerosis per totam superficiem foliorum sparsis, flavo-ochraceis, primo globosis dein hemisphærico-cupulatis, depressis, margine integro-inflexo; maculis nullis; æcidiosporis subgloboso-ellipticis v. polygoniis, pallidis v. flavescentibus, 20-26 = 18-24; episporio hyalino crasso, levi; spermogoniis epiphyllis, gregariis, rufescenti-brunneis.

*Hab.* in foliis *Kundmanniæ siculæ* in insula Maita.

22. *Æcidium Umbelliferarum* Boy. et Jacz. Mont. Myc. Montpell. p. 22. — Maculis flavis oblongis; pseudoperidiis hinc inde aggregatis, margine lacero, albidis; æcidiosporis subglobosis, tenuiter verrucosis, flavo-aurantiis, crasse tunicatis, 25-27 = 22,5.

*Hab.* in foliis petiolisque *Anethi Fæniculi*, Grammont pr. Montpellier Galliæ.

23. *Æcidium Cissi* Wint. — Syll. VII, p. 811. — var. **physaroides**

P. Henn. F. *Æthiop.* 1, p. 111. — *Æcidii*s amphigenis et cauliculis, sparsis, maculis atrosanguineis fuscescentibus usque ad 2 cm. diam.; pseudoperidiis sparsis, pulvinatis, elevatis, diutius clausis, rotundatis, aliis elongatis confluentibusque usque ad 1 mm. diam., atrofuscis, cinereis, dein cupuliformibus, margine albo, membranaceo, laciniato, reflexo; *æcidiosporis* subglobosis v. ellipsoideis interdum angulatis, hyalinis, flavescentibus, minute granulatis, 8-12 = 7-9.

*Hab.* in foliis vivis caulibusque *Cissi* quadrangularis in Abyssinia.

24. *Æcidium Vangueriæ* Cooke — Syll. VII, p. 795. — var. *abyssinica* P. Henn. F. Afr. pag. 372. — Maculis nullis; pseudoperidiis hypophyllis, gregariis sparsis elevatis, non subimmersis, cupuliformibus, albidis intus flavis, margine reflexo, albido-lacerato; *æcidiosporis* angulatis, rotundatis, flavis, granulatis 14-17,5, peridio 1  $\mu$ . cr., hyalino. 1238

*Hab.* ad folia *Vangueriæ* edulis in Abyssinia.

25. *Æcidium Vieillardii* Har. Bull. Soc. Myc. 1891, p. 149. — *Æcidii*s amphigenis, præcipue hypophyllis, sparsis; pseudoperidiis secus orbem dispositis, minutis, vix prominulis, in macula brunnea areolata insidentibus, non v. vix confluentibus, ore recto crasso integro; *æcidiosporis* rotundato-angulatis, verrucosis, episporio flavidulo sat tenui, plasmate (in sicco) hyalino, punctulato, 12-16  $\mu$ . diam. 1239

*Hab.* ad folia *Rubiaceæ* cujusdam, in Nova Caledonia.

26. *Æcidium columbiense* E. et E. New West Amer. Fung. in Eryth. pag. 206. — Hypophyllum æqualiter sparsum; *æcidii*s expanso-apertis, 300-400  $\mu$ . diam., dentato-marginatis; spermogoniis inter *æcidia* sparsis; *æcidiosporis* aurantiacis, globosis, ellipsoideis v. subangulatis, levibus, 15-20  $\mu$ . long. 1240

*Hab.* in foliis *Hieracii* sp., Columbia Britannica Amer. bor.

27. *Æcidium Conyzæ* P. Henn. F. *Æthiop.* 1, p. 113. — *Æcidii*s hypophyllis, sparsis v. gregariis, subflavis v. cinereis, maculis fuscis; pseudoperidiis cupuliformibus, pallidis dein fuscescentibus; *æcidiosporis* subglobosis v. ellipsoideis, acutangulis, verrucosis, subhyalinis, 20-28 = 18-22. 1241

*Hab.* in foliis vivis *Conyzæ* *Dioscoridis*, in Abyssinia.

28. *Æcidium guttatum* Kunze in sched. [in Herb. Brux.] Sacc. Fung. herb. Brux. n. 4. — Maculis orbicularibus purpurascentibus, distinctis; pseudoperidiis subimmersis, circinatim congestis, hypogenis; *æcidiosporis* albidis polygonis, nucleatis, 9-10  $\mu$ . diam. levibus; cellulis peridialibus polygonis, asperulis, pallidis, 12-15  $\mu$ . diam. 1242

*Hab.* in foliis plantæ *Compositæ* (?), Surinam (WEIGELT).

29. *Æcidium flavescens* Barcl. Addit. Ured. 226, t. 4, f. 8. — Acer- 1243  
vulis hypophyllis, pallidis, maculas flavas in aversa pagina gignen-  
tibus; pseudoperidiis confertis, brevibus, margine stellatis; æcidio-  
sporibus globoso-ovoideis, pallide aurantiis, 20-22 = 14-16.

*Hab.* in foliis *Senecionis rufinervis* in silva Massobra pr.  
Simla Indiæ.

30. *Æcidium Trientalis* Tranzschel in Zeitschr. Pflanzenkr. 1892, 1244  
p. 103 et in Gobi Rostp. S. Petersb. 1891, p. 116. — Maculis nul-  
lis; æcidiis hypophyllis, irregulariter gregariis; pseudoperidiis bre-  
viter cylindræis, revolutis lacero-marginatis; æcidiosporibus poly-  
goniis, minute verrucosis, 17  $\mu$ . diam.

*Hab.* in Trientali europæa, Lewaschewo, prope Petersburg  
Rossiæ.

31. *Æcidium rhytismoideum* B. et Br. — Syll. VII, p. 807. — var. 1245  
*Mabæ* P. Henn. F. *Æthiop.* p. 111, t. V, f. 13. — Maculis orbi-  
cularibus, rhytismoideis usque ad 25 mm. diam., hypophyllis;  
pseudoperidiis e crusta nigra oriundis, plerumque orbiculariter dis-  
positis vel sparsis, oblongis, graphidoideis v. punctiformibus, ele-  
vatis, primo nigris, crustaceis, dein longitudinaliter erumpentibus,  
margine membranaceo latiusculo, albo, reflexo, e cellulis globoso-  
quadrangularibus, raro penta-v. hexagoniis, hyalinis, 12-20 = 12-  
15 formato; æcidiosporibus subglobosis v. ellipsoideis plus minus an-  
gulatis levibus, flavo-aurantiis v. hyalino-flavescentibus, 11-15 =  
8-13.

*Hab.* in foliis vivis *Mabæ abyssinicæ*, in Abyssinia.

32. *Æcidium Oleæ* P. Henn. Hedw. 1893, p. 217. — Maculis sparsis, 1246  
incrassatis, fuscis, æcidiis hypophyllis, pseudoperidiis gregariis, bre-  
vibus, diutius clausis tuberculiformibus, dein apertis, subimmersis,  
cupuliformibus, fuscis; æcidiosporibus ellipsoideis, ovoideis v. subglo-  
bosis, reticulato-verrucosis, hyalino-fuscescentibus, 20-28 = 13-17.

*Hab.* ad folia *Oleæ javanicæ*, in Java.

33. *Æcidium Ocimi* P. Henn. F. *Æthiop.* I, pag. 112. — Maculis ro- 1247  
tundatis v. nervos sequentibus, flavis v. fuscescentibus; æcidiis hy-  
pophyllis, sparsis, rotundatis; pseudoperidiis minutis, confertis,  
aureo-ochraceis, cupuliformibus, margine pallidiorè, reflexo, cellulis  
contextu pelygoniis, hyalinis, granulatis, 18-28 = 15-25; æcidiospo-  
ris subellipsoideis v. subglobosis e mutua pressione angulatis, levi-  
bus, aureo-ochraceis, 17-24 = 17-20.

*Hab.* in foliis vivis *Ocimi suavis*, in Abyssinia.

34. *Æcidium Dichondræ* Har. Bull. Soc. Myc. 1891, p. 149. — *Æci-* 1248  
*diis* amphigenis, non confluentibus, pseudoperidiis minutis, paullum  
 præminentibus, flavidis, ore lacerato reflexo; æcidiosporis rotun-  
 dato-polygonis, levibus, episporio hyalino, plasmate (in sicco) pal-  
 lide luteo, 16-20  $\mu$ . diam.  
*Hab.* ad folia *Dichondræ* cujusdam, in Chili.
35. *Æcidium Wittmackianum* P. Henn. F. *Æthiop.* I, p. 112. — Ma- 1249  
*culis* fuscis, æcidiis in foliorum, petiolorum, bractearumque pagina  
 inferiore; pseudoperidiis sparsis plerumque concentrice dispositis,  
 cinereis, diutius tectis dein erumpentibus, cupuliformibus, contextu  
 e cellulis triangularibus usque pentagonis, hyalinis, granulosis; æci-  
 diosporis subglobosis v. angulatis, hyalinis, granulosis, 15-17 = 14-16.  
*Hab.* in foliis vivis *Dichopteræ* maculatæ, in Abyssinia.
36. *Æcidium convolvulinum* Speg. Fl. Guar. nonn. p. 22, n. 64. — Hypo- 1250  
*phyllum*, in maculis deciduis gregarium, albido-flavescens; cellulis  
 pseudoperidii obovatis, grosse rugoso-papillosis, 30-40 = 20-24; æci-  
 diosporis subglobosis, levibus, subhyalinis, 18-22 = 18-20.  
*Hab.* ad folia viva *Convolvuli* cujusdam pr. *Posla-que*  
 Amer. austr.
37. *Æcidium Chelones* Girard Bull. Torr. Club. V, p. 40. 1251  
*Hab.* in foliis *Chelones* glabræ Massachusett Amer. bor.
38. *Æcidium Wilcoxianum* Thüm. Myc. Univ. 2226. 1252  
*Hab.* in foliis *Phlogis* divaricatæ et *Phl. Douglasii*,  
 Amer. bor.
39. *Æcidium Cordiæ* P. Henn. F. Portor. Sint. p. 491. — Maculis ampli- 1253  
*genis*, rotundatis, aurantiacis dein fuscis; æcidiis hypophyllis, sparsis,  
 pseudoperidiis gregariis, concentrice dispositis, subimmersis, primo  
 hemisphæricis, tectis, dein poculiformibus, flavis; æcidiosporis sub-  
 globosis sæpe angulatis, hyalino-flavescentibus, granulosis 28-38 =  
 28-35.  
*Hab.* in foliis *Cordiæ* bullatæ, in insula S. Domingo.
40. *Æcidium oldenlandianum* Ell. et Trac. Journ. of Myc. 1891, p. 43. 1254  
 — Hypophyllum; æcidiis in quoque grege paucis, 80-100  $\mu$ . long.,  
 ore parce fisso nec recurvo; æcidiosporis globosis, nunc subangu-  
 latis, episporio tenui, levi, læte flavo, 14-16  $\mu$ . diam.  
*Hab.* in foliis *Houstoniæ* (*Oldenlandiæ*) cæruleæ, Starkville  
 in Mississippi Amer. bor.
41. *Æcidium Stenhammaræ* Rostr. Beiheft. Bot. Centr. 1893, p. 2. 1255  
*Hab.* in *Stenhammaria* maritima, Jütland bor. — *Æcidio*  
*Pucciniæ Rubiginis* simillimum sed pseudoperidio minus evoluto.

42. *Æcidium Heliotropii* Boy. et Jacz. Mat. mycol. Montpell. p. 23. 1256  
*Hab.* in *Heliotropio europæo*, Montpellier. — *Æcidiosporæ* 27, 5 = 22,5.
43. *Æcidium Phaceliæ* Peck Bull. Torr. Bot. Cl. 1884, p. 50, Sacc. 1257  
*F. herb.* Bruxell. n. 3. — Maculis fulvo-ochraceis; pseudoperidiis hypophyllis, confertis, erumpentibus, breve poculiformibus, subintegris, sordide flavis, cellulis peridialibus rugulosis, 25-30  $\mu$ . d., *æcidiosporis* subglobosis, levioribus, 13  $\mu$ . d., pallide fusco-ochraceis.  
*Hab.* in foliis *Phaceliæ circinatæ* (ut videtur) Utah Amer. bor: (M. E. JONES).
44. *Æcidium Dietelianum* P. Henn. F. *Æthiop.* I, p. 112, t. V, f. 14. 1258  
— *Æcidiiis* folia tota sæpeque ramulos et fructus occupantibus, aurantiacis; pseudoperidiis dense gregariis sed non confluentibus, cupulatis dein elongato-cylindræis, incarnato-aurantiacis, usque ad 2 mm. long., 1 mm. diam., margine vix laceratis nec reflexis, apice apertis, pseudoperidii cellulis ellipsoideo-polygoniis usque ad 35 = 25, hyalinis, granulatis, margine incrassatis; *æcidiosporis* ellipsoideis v. subglobosis, e mutua pressione sæpe angulatis, 15-26 = 15-20, læte aurantiacis, episporio subhyalino levi.  
*Hab.* in foliis, caulibus et fructibus *Withaniæ somniferæ*, in Abyssinia.
45. *Æcidium Solani-unguiculati* P. Henn. F. *Æthiop.* I, p. 112. — 1259  
Maculis flavo-fuscescentibus; *æcidiiis* amphigenis, sparsis, pseudoperidiis gregariis, cupulatis, flavescentibus 0,2-0,3 mm. diam.; *æcidiosporis* subglobosis v. ellipsoideis, acutangulis, hyalinis flavescentibus 18-26 = 15-18.  
*Hab.* in foliis vivis *Solani unguiculati*, in Abyssinia.
46. *Æcidium Uleanum* Pазschke Hedw. 1892, p. 95. — *Æcidiiis* ma- 1260  
culis rotundatis, usque ad 1 cm. lat., in pagina inferiore foliorum irregulariter dispersis, pallidioribus insidentibus, in pagina superiore maculas indeterminatas, læte purpureas, centro pallidiores, generantibus; pseudoperidiis congestis, in annulos concentricos dispositis cylindræis, 0,5 mm. alt. pallide flavis membrana tenui, margine irregulariter laciniato, in statu sicco fragilibus, e cellulis polyhedricis, 33-45 = 27-30, compositis; *æcidiosporis* ellipticis, pallidis, subtiliter punctatis, episporio paululum incrassato præditis, 27-35 = 25-32.  
*Hab.* in foliis *Solani spec.*, Tuberao in Brasilia.
47. *Æcidium ochraceum* Speg. Fl. Guar. nonnulli p. 25, n. 70. — 1261  
Maculis amphigenis indeterminatis, pallescenti-ochraceis; pseudo-

peridiis hypophyllis dense circinatis, ochraceis; æcidiosporis globosis levibus, hyalinis, 20-24 = 20.

*Hab.* ad folia viva Tabernæmontanæ cujusdam pr. Paraguari, Amer. austr.

48. **Æcidium asclepiadinum** Speg. Fl. Guar. nonn. p. 26, n. 71. — 1262

Pseudoperidiis totum hypophyllum, petiolos et caules obtegentibus, dense constipatis, majusculis, albidis; æcidiosporis ellipticis v. globosis, levibus, subhyalinis, 20-22 = 18-20.

*Hab.* ad folia, caules, inflorescentias *Morreniæ* cujusdam prop. Asuncion Amer. austr.

49. **Æcidium Mori** Barcl. Addit. Ured. 225, *Cœoma Mori* Barcl. olim. 1263

— Acervulis aurantiis, amphigenis, pseudoperidiis obsolete; æcidiosporis læte aurantiis, globoso-ovoideis, levibus, 14-17 = 14-16; cellulis peridialibus hexagonis spinuloso-tuberculatis, 22 = 18-19.

*Hab.* in foliis *Ficus palmatæ* (nec *Mori*) pr. Simla Indiæ.

50. **Æcidium pumilio** Kunze in sched. in Herb. Brux., Sacc. Fung. 1264

herb. Brux. n. 5. — Maculis suborbiculatis, fuscis; pseudoperidiis minutissimis in acervulos rotundos densissime congestis, brevibus, late hiantibus, hypogenis; æcidiosporis pallidis minutis, globoso-polygonis, 12-14 = 9-12, levibus; cellulis peridialibus globoso-angulosis, asperulis, 26-24  $\mu$  diam. pallidis.

*Hab.* in foliis plantæ Gujan. e familia *Urticacearum* (nisi *Bailleriæ asperæ*, observante Reichenbach), Surinam (WEIGELT, 1827). Color acervorum senilium fuscus.

51. **Æcidium Litseæ** Pat. Champ. Asiat. p. 3. — Tuberculis hypo- 1265

phyllis, sparsis, globosis, lignosis 1-2 mm. lat., ex 6-10 verrucis conoideis, aggregatis, rufo-brunneis, compositis; pseudoperidiis tectis dein erumpentibus, vix exsertis, pallide fulvis, tenuibus, contextu parenchymatico e cellulis tabulari-polygonis 20-30 = 25-35, crasse truncatis, levibus, hyalino-flavis, composito; æcidiosporis elongato-angulosis, 60-70 = 15-20, granulosis, episporio crasso, hyalino.

*Hab.* in foliis vivis *Litseæ glaucæ* in insula Nippon.

52. **Æcidium Lauterbachii** Henn. Fung. Nov. Guin. II, p. 23. — Ma- 1266

culis fuscis, orbicularibus, hypophyllis usque ad 1 cm. diam.; pseudoperidiis gregariis cupulato-applanatis, dein margine fimbriato, albis, contextu cellulis plerumque pentagonis, pallidis; æcidiosporis subglobosis, acutangulis, denso verrucosis, hyalinis, 25-35 = 20-28, episporio incrassato, verrucoso.

*Hab.* in foliis *Urticacearum* lignosarum Novæ Guinæ.

53. **Æcidium calyculatum** Speg. Fl. Guar. nonn. p. 25, n. 69. — Ma- 1267

culis irregularibus amphigenis indeterminatis fuscescentibus; pseudoperidiis hypophyllis laxè gregariis, longiuscule exsertis, calyciformibus, pallescenti-albis; æcidiosporis globosis, minutis, levibus, farctis 16-18 = 14-16.

*Hab.* ad folia arbusculæ cujusdam in silva pr. Caa-guazu, in America austr.

**RÆSTELIA** Reb. — Syll. VII, p. 833.

1. *Ræstelia Photiniæ* P. Henn. Hedw. 1894, p. 231. — Maculis rufo-brunneis v. atris, rotundatis; soris hypophyllis v. fructicolis, bullatis, duris; pseudoperidiis aggregatis, subcylindræis v. subcupulatis, margine involutis, subincrassatis, fusco-brunneis; æcidiosporis subglobosis, minute granulosis, fuscis, 18-24 = 16-22. 1268

*Hab.* in foliis fructibusque *Photiniæ levis*, Yokohama Japoniæ.

**PERIDERMIIUM** Lév. — Syll. VII, p. 835, IX, p. 326.

1. *Peridermium Barteti* Vuill. Rech. sur les rouilles des pins, Nancy 1894, p. 4. 1269

*Hab.* in acubus *Pini montanæ* pr. Luchon Galliæ (BARTET).  
— Sporæ inæquales 33-52 = 14-22.

**UREDO** Pers. — Syll. VII, p. 838, IX, p. 327.

1. *Uredo Derridis* P. Henn. Hedw. 1893, p. 217. — Soris amphigenis orbiculariter dispositis, pulvinatis, compactis, firmis, confluentibus, atro-fuscis; uredosporis ovoideis, ellipticis v. subglobosis, brunneo-fuscis 20-26 = 15-18; episporio incrassato, dense aculeato 3-5  $\mu$ . cr. 1270

*Hab.* ad folia *Derridis bantamensis*, Java.

2. *Uredo pallidula* Cooke et Mass. in Grev. vol. 22, p. 37. — Soris pallidis, convexis, gregariis, irregulariter erumpentibus dein epidermide lacera cinctis, amphigenis; uredosporis subhyalinis, levibus, 12-14 = 8-10. 1271

*Hab.* in foliis, ramis et leguminibus *Cassiæ*, Brisbane Australiæ (BAILEY).

3. *Uredo notabilis* Ludw. Centralbl. 1890, n. 27. — Soris epiphyllis, magnis, rufo-brunneis, in phyllodiis detortis et inflatis tubercula ca. 3 cm. diam. efficientibus; uredosporis ellipticis, rufo-brunneis 36-43 = 20-25, episporio 2,5-3  $\mu$ . cr. reticulato (areolis reticuli pentagonalibus v. hexagonalibus medio mammillatis) pedicello ca. 46  $\mu$ . long., hyalino, superne interdum incrassato. 1272

*Hab.* in phyllodiis *Acaciæ notabilis* in Australia merid.

4. *Uredo californica* E. et E. New West Amer. Fung. in Eryth. 1273

p. 205. — Soris plerumque hypophyllis, 0.5 mm. v. minus diam., mox nudis sæpe subconfluentibus, olivaceis. folii paginam expallentibus; uredosporis globosis v. ellipsoideis, subhyalinis, vix aculeolatis. 15-20 = 10-14.

*Hab.* in foliis *Viciæ giganteæ*, Mill Valley Californiae.

5. *Uredo kansensis* Kell. et Sw. in Journ. of Myc. 1889, p. 77 — 1274

Maculis amphigenis, viridi-flavis dein pallide brunneis; soris præcipue hypophyllis, valde prominentibus, primo  $\frac{1}{4}$ - $\frac{3}{4}$  mm, dein ob confluentiam 1-3 mm. diam., fusco-viridulis, paraphysisibus hyalinis, 50-90 = 13-20 (apice), copiosis cinctis; uredosporis subglobosis v. ellipsoideis, fuscis, sæpius eximie papillatis, 17-35 = 15-22; pedicellis hyalinis, densis, 30-50 = 5; spermogoniis amphigenis, in macularum centro, potius numerosis, atris, superficialibus, depressis, papillatis, 75-100  $\mu$ . diam.

*Hab.* in foliolis *Amorphæ fruticosæ*, Rooks county et Manhattan, Kansas Amer. bor.

6. *Uredo Vignæ* Bres. Rev. Myc. 1891, p. 66. — Soris minutis, pu- 1275

stuliformibus, hypophyllis, rarissime amphigenis, luride rufescentibus, in maculis concoloribus, suborbicularibus, dispositis, primo pseudoperidio diu persistenti tectis; uredosporis membrana achroa, laxè aculeolata præditis, subsphærico-angulatis 22-24 = 18-20, v. obovato-elongatis 20 = 12, paraphysisibus nullis.

*Hab.* ad folia *Vignæ luteæ*, in insul. S. Thomæ.

7. *Uredo Acænæ* Ellis North Amer. Fungi n. 3150. 1276

*Hab.* in foliis *Acænæ trifidæ*, Point Isabell, Alameda Co. California, Amer. bor.

8. *Uredo Zygophylli* P. Henn. F. Æthiop. I, p. 113. — Soris ampli- 1277

genis et cauliculis, gregariis, rotundatis, pulvinatis, compactiusculis, fuscis; uredosporis subglobosis, ellipsoideis raro ovoideis, levibus, ochraceis, brunneis v. subfuscis, 20-30 = 17-28; episporio valde incrassato, flavo.

*Hab.* in foliis caulibusque *Zygophylli decumbentis*, in Ægypto. — Ab *Uromycete vesiculoso* Wint. in *Zygoth. amophilo*, uredosporis densissime verrucosis, episporio tenui differt.

9. *Uredo zygophyllina* Sacc. *Uredo Zygophylli* Jaczewski Bull. Soc. 1278

Myc. 1893, p. 47, t. III, f. IV. — Soris uredosporiferis in greges numerosos sparsis; uredosporis brunneis, globulosis, 35-37  $\mu$ . diam.; exosporio levi.

*Hab.* ad *Zygophyllum cornutum*, in Algeria — Videtur diversa ab *U. Zygophylli* Henn.



10. **Cæoma Comandræ** Peck Bull. Torr. Cl. 1884, p. 50. — Maculis 1279  
pallidis, indefinitis; soris amphigenis, confertis, primo epidermide  
tectis; uredosporis subglobosis, ovatis v. ellipsoideis, aurantiacis,  
23-60 = 20-23.

*Hab.* in foliis Comandræ pallidæ; Utah Amer. bor.

11. **Uredo Erythroxyli** Graziani in Bull. Soc. Myc. 1891, p. 153. — 1280  
Soris umbrinis, hypophyllis, multis v. paucis, epidermide tectis dein  
erumpentibus, minutis, 200-700  $\mu$ . diam., sparsis, globosis v. con-  
fluentibus et tum irregularibus; maculis indeterminatis, plus mi-  
nus latis in pagina inferiore foliorum concoloribus, in pagina supe-  
riore fulvo-ferrugineis, contraposis; uredosporis ochraceo-umbri-  
nis, tenuiter echinatis, aliquando ellipsoideis, plerumque ovatis v.  
piriformibus, antice obtuse rotundatis, postice exalbescens, at-  
tenuatis truncatisque 25-30 = 14-21; pedicello rarissimo, subnullo;  
protoplasmate hyalino, 1-guttato; poris germinativis 3-5  $\mu$ . diam.,  
uno v. duobus, sæpius a latere dispositis, præminentibus.

*Hab.* in foliis Erythroxyli Cocæ in Peruvia et Bolivia,  
Amer. austr.

12. **Uredo Frankeniæ** Mont. Phyt. Canar. p. 90. — Pulvinulis teleu- 1281  
tosporiferis proeminentibus, atro-fuscis, teleutosporis, ellipticis, ob-  
longis v. subglobosis, utrinque rotundatis, apice incrassatis, levis-  
simis, vix v. non constrictis ad septa, 36-44 = 20-24; pedicello lon-  
giusculo, persistenti, hyalino, gracili, 70  $\mu$ .; uredosporis immixtis,  
episporio crassiusculo, globosis v. subglobosis, levibus 24-32  $\mu$ .

*Hab.* ad folia Frankeniæ pulverulentæ, Canaria.

13. **Uredo Gossypii** Lagerh. Journ. of Myc. 1891, p. 48. — Maculis 1282  
parvis, purpureo-brunneis, sparsis v. confluentibus; soris præsertim  
hypophyllis, flavescens; sporis ovoideis v. piriformibus, 24-30  
= 15-18, episporio æquali, pallide flavescens, echinulato, contextu  
ochreo; paraphysibus clavatis immixtis.

*Hab.* in foliis Gossypii sp. in Æquatoria Amer. austr.

14. **Uredo Eriocomæ** Ell. Descr. new Spec. Fun. Journ. of Mycol. 1283  
1893, p. 275. — Soris hypophyllis, oblongis, 1-4 mm. long., pul-  
vinatis, mox nudis, atro-castaneis; uredosporis globosis, 20-25  $\mu$ .  
diam. v. ovoideis 22-30 = 20-25, primo hyalinis, mox castaneis, epi-  
sporio crasso, subæquali, breviter tuberculato-spinuloso, pedicello  
brevi, æquali, hyalino.

*Hab.* in foliis Eriocomæ cæspitosæ in deserto Mohave,  
Kern county Californiæ.

15. **Uredo Schweinfurthii** P. Henn. F. Æthiop. l. p. 113, t. V, f. 11. 1284

— Soris epiphyllis, singularibus, rotundatis, sæpius gregariis, confluentibus, primo pustulatis epidermide tectis, griseis, maculis flavo-brunneis dein erumpentibus, pulverulentis, fusco-ochraceis; uredosporis globosis v. ellipsoideis, ochraceis 28-35 = 24-33; episporio atrobrunneo; verrucoso-aculeato, 2-3  $\mu$ . cr.

*Hab.* in foliis vivis Cirsii spec. in Abyssinia.

16. **Uredo similis** Ell. Descrip. new Spec. Fung. in Journ. of Mycol. 1235 1893, p. 275. — Soris amphigenis, orbicularibus,  $\frac{1}{2}$  mm. diam., flavis dein pallide brunneis, sparsis, applanatis, sine macula; uredosporis obovatis, 22-25 = 15-20, sursum rotundatis, subincrassatis et aculeolatis, deorsum angustatis et levibus, hyalinis dein flavis; pedicellis brevissimis.

*Hab.* in foliis Sycii vulgaris, Brookfield Amer. bor. (E. M. FISHER).

17. **Uredo Ipomœæ** Barcl. Addit. Ured. 228. — Pustulis hypophyllis 1286 albicantibus, irregularibus; sporis rotundo-cuboideis, levibus 17-20 = 14-16.

*Hab.* in foliis Ipomœæ hederacœæ, Sairi pr. Simla Indiæ (WATT). Dubia species ex ipso auctore.

18. **Uredo Jacquemontia** Henn. Fung. Nov. Guin. II, p. 23. — Soris 1287 hypophyllis, sparsis, diutius tectis, deinde epidermide cinctis erumpentibus, pulverulentis, ochraceis, maculis flavis; sporis ellipsoideis, ovoideis v. subglobosis, ochraceis v. fusco-brunneis 30-38 = 27-35, episporio hyalino aculeato 5-7  $\mu$ . incrassato, aculeis hyalinis usque ad 1  $\mu$ . longis.

*Hab.* in foliis Jacquemontia, Novæ Guineæ (L. KARNBACH).

19. **Uredo Ehretia** Barcl. Addit. Ured. 228. — Acervulis foliiculis 1288 subcircularibus, 1-8 mm. diam. v. petioliculis et foliiculis difformibus, hypertrophias generantibus, læte aurantiis; uredosporis ovoideis v. piriformibus, spinosis, apice incrassatis, 30-38 = 20-22.

*Hab.* in foliis petiolisque Ehretia serrata pr. Chakrata, Simla Indiæ.

20. **Uredo Colebrookia** Barcl. Addit. Ured. 227. — Pustulis copiosis- 1289 simis, aurantiis, hypophyllis, confluentibus; uredosporis pallide aurantiis, ovoideis, spinosis 20-28 = 17-20.

*Hab.* in foliis Colebrookia oppositifolia pr. Suni, Simla Indiæ (WATT).

21. **Uredo Arbuti** Diet. et Holw. Bot. Gaz. 1893, p. 256. — Soris hy- 1290 pophyllis, dense irregulariterque gregariis v. sparsis, non confluentibus,  $\frac{1}{5}$  mm. diam.; uredosporis piriformibus v. clavatis, hyalinis,

endoplasmate granuloso, aurantiaco faretis, echinulatis, 28-55 = 15-22.

*Hab.* in *Arbuto Menziesii*, Mount Tamalpais Californiæ (W. C. BLASDALE).

22. **Uredo Chimaphilæ** Peck 46 Rep. p. 33. — Maculis nullis; soris 1291 præcipue hypophyllis, sparsis v. confertis, epidermide diu tectis; uredosporis anguste ovato-oblongis v. subellipsoideis, 25-30 = 12, 5-18.

*Hab.* in floribus et foliis *Chimaphilæ maculatæ*, Amagansett Amer. bor.

23. **Uredo (Lecythea) pallens** Sacc., Fl. Myc. lusit. p. 8. — Soris hy- 1292 pophyllis, hinc inde dense et late gregariis, orbicularibus, minutis,  $\frac{1}{2}$ -1 mm. diam., depressis, epidermide demum cinctis, viridulo-ochroleucis; uredosporis ellipsoideis, basi apiculatis, 24 = 20, decidue pedicellatis, verruculosis, subhyalinis; paraphysibus clavato-capitatis levibus, hyalinis, capitulo 24-30 = 24, stipite 40-45 = 6.

*Hab.* ad folia languida *Vasconcelliæ hastatæ* in Horto botanico, Coimbra Lusitaniæ. — Ob affinitatem cum *Lecythea salicina*, verisimillime ad *Melampsoram* quamdam spectat.

24. **Uredo Cornui** Har. Bull. Soc. Myc. 1891, p. 147. — Soris mi- 1293 nutis, punctiformibus, secus orbem dispositis, macula pallidiore insidentibus; sporis ovatis v. rotundato-ovatis, echinulatis, dilute flavidis, episporio hyalino 24-32 = 16-20.

*Hab.* ad folia *Euphorbiæ* in insula oceanica Wallis.

25. **Uredo Ichnocarpi** Barcl. Addit. Ured. 228. — Pustulis læte au- 1294 rantiis hypophyllis; uredosporis ovoideis, grosse papillato-spinulosis, 20-24 = 16-21.

*Hab.* in foliis *Ichnocarpi fuscæ* pr. Simla Indiæ.

26. **Uredo Fici** Cast., Syll. VII, p. 847. — Var. *abyssinica* P. Henn. 1295 F. Æthiop. I, p. 113. — Maculis amphigenis, fusco-brunneis, irregulariter sparsis, 2-8 mm. diam.; soris hypophyllis, rotundatis, minutis, diutius tectis, ochraceis; uredosporis subglobosis, obovatis v. late clavatis, verrucis hyalino-flavescentibus 17-28 = 17-21.

*Hab.* in foliis vivis *Fici* spec., in Abyssinia.

27. **Uredo Celtidis** Pazschke Hedw. 1891, p. 199. — Sine maculis; 1296 soris fulvis, primo tectis dein liberis, pulveraceis et confluentibus, per totam paginam inferiorem foliorum irregulariter dispersis; uredosporis forma variis, ovatis v. piriformibus, sæpe inæquilateralibus, pallide fulvis, aculeatis, 22-23 = 13-20.

*Hab.* in foliis vivis *Celtidis* spec., in Brasilia.

28. **Uredo Pileæ** Barcl. Addit. Ured. 228. — Pustulis minutissimis, 1297  
pallide flavis, sparsis, hypophyllis; uredosporis ovoideis, dilutissime  
flavidis, prominenti-spinulosis, 20-25 = 14-20.

*Hab.* in foliis Pileæ trinerviæ in silva Mashobra pr. Simla  
Indiæ.

29. **Uredo** (Uromyces?) **Aloes** Cooke Grev. Vol. XX, p. 16. — Ma- 1298  
culis suborbicularibus v. confluentibus, pallidis; soris convexis, ma-  
gnis, circinantibus v. super maculas confertis, sæpe confluentibus,  
diutius obtectis; uredosporis ellipticis v. subglobosis, levibus, epi-  
sporio crasso, 25-30 = 20; pedicellis hyalinis.

*Hab.* ad folia Aloes, in Africa orientali.

30. **Uredo iridis** (Thüm.) Plowr. Brit. Ured. p. 257, *Uromyces* Thüm. 1299  
M. U. n. 2045, non *Uredo Iridis* DC. — Soris lineari-ovatis, sub-  
confluentibus, amphigenis, subcutaneis, dein nudis, castaneis; uredo-  
sporibus globulosis, raro subpiriformibus, echinulatis, brunneis, 30-  
35 = 20-25.

*Hab.* in foliis Iridis flavissimæ, spuria, pumilæ etc.  
in Sibiria, Germania, Britannia etc, ut plurimum in hortis. Cfr.  
Plowr. l. c.

31. **Uredo carnosæ** Speg. Fl. Guar. nonn. p. 22, n. 62. — Acervu- 1300  
lis minutis, hypophyllis, subolivaceis, carnosæ compactis, 300-600  
µ. diam.; uredosporibus globosis, levibus, fulvis, paraphysatis, 20-  
24 = 20.

*Hab.* ad folia viva Orchidææ cujusdam in silva Caaguazu,  
Amer. austr.

32. **Uredo Goodyeræ** Tranzschel Hedw. 1893, p. 240. — Pseudope- 1301  
ridio hemisphærico; uredosporibus ovoideis 23-33 = 12-14.

*Hab.* in *Goodyera repente* Rossia.

33. **Uredo armillata** Ludw. Bot. Centralbl. 1890, n. 27. — Soris rufo- 1302  
brunneis, confluentibus et culmos armillæ modo (ad altid. 3-25 mm.)  
circumambientibus, sparsim laciniis epidermidis tectis; uredosporibus  
rotundatis v. ellipticis v. piriformibus 23-30 = 15-20, spinosissimis,  
pallide brunneis.

*Hab.* in culmis Junci pallidi, Caromby Victoria Australia.

34. **Uredo Kärnbachii** Henn. Fung. Nov. Guin. II, pag. 23. — Soris 1303  
hypophyllis, gregariis, striiformibus v. linearibus sæpe confluenti-  
bus, diutius tectis dein erumpentibus, subpulverulentis, fusco-atris;  
uredosporibus ovoideis, subglobosis, rarius ellipsoideis, levibus, fusco-  
brunneis, 23-28 = 18-24, episporio 2-4 µ. cr.; pedicello hvalino,  
plus minus elongato 3-4 µ. cr.

*Hab.* in foliis *Andropogonis Schoenanthi*, Bismark Archipelagus Oceaniæ (L. KARNBACH).

- 35 **Uredo Aspidiotus** Peck 24 Rep. p. 88. Teste cl. Dietel in Bot. 1304  
Zeitschr. 1894, p. 46 differt ab *U. Polypodii*: uredosporis constanter majoribus, biformibus nempe tenui-tunicatis 32-48 = 16-26, et crassi-tunicatis 36-56 (-72) = 27-40. Nascitur in Europa et America, amphigena in foliis *Phegopteridis Dryopteridis*. — **Uredo Polypodii** (Pers.) DC., Sacc. Syll. VII, p. 857, genuina, in *Cystopteride fragili* et in *Woodsia* in Europa et America bor. habet uredosporas quoque biformes sed minores, nempe tenui-tunicatas 22-35 = 13-20 et crassi-tunicatas 26-38 = 18-29. — Teste vero B.M. Duggar, (Variab. in the spores of *Ur. Polypodii* in Proc. Amer. Acad. 1894, p. 396) species præcitatae essentialiter non differunt.

36. **Uredo Pteridis** Diet. et H. in *Erythea*, Aug. 1894.

*Hab.* in frondibus *Pteridis aquilinæ* in California. — Ab 1305  
*U. Polypodii* differre videtur uredosporis echinulatis.

- 37: **Uredo Cosmæ** Lowe. Cfr. Grev. XX, p. 109, (in *Cosmea leu-* 1306  
*cantha*, in ins. Madera).

38. **Uredo sphaerospora** Berk. et Curt. Cfr. Grev. XX, p. 110, (in 1307  
*Panico*, Pensilvania).

39. **Uredo ustulata** Berk. et Curt. Cfr. Grev. XX, p. 110, (in *Cy-* 1308  
*pero*, in Carolina).

40. **Uredo Wrightii** Berk. et Curt. Cfr. Grev. XX, p. 110, (in *Cro-* 1309  
*tone*, Texas, Amer. bor.).

41. **Uredo Zornia** Berk. Cfr. Grev. XX, pag. 110, (in *Zornia*, ins. 1310  
Mauritius).

42. **Uredo (Cæoma) Morotii** Har. et Poirault in Journ. de Bot. 1891, 1311  
p. 272. — Soris pro more hypophyllis rarius caulinis, pustulæformibus, deplanatis non v. vix confluentibus, aurantiacis (in matrice viva), cinereo-albidis in sicco; uredosporis hyalinis, densissime tuberculatis; episporio crassiusculo, difformibus, subglobosis, ellipticis vel prismatico-cylindricis (*Melampsoræ* instar), 16-22 = 12-20.

*Hab.* ad folia caulesque *Cardamines* spec., in Fennia. — *C. Tropæoli* affinis.

43. **Uredo (Cæoma) Berberidis** Lév.\* Ann. Sc. Nat. 1846, pag. 268. 1312  
Har. Bull. Soc. Myc. 1891, p. 148. — Spermogoniis amphigenis, rotundatis, rufescentibus, minutissimis, in macula rufescenti insidentibus, sparsis, sporulis globosis circ. 4  $\mu$ . diam.; soris plerumque gregariis 1-12, frequentius secus nervos dispositis, amphigenis

tuberculatis!

\* *Uredo berberidis* Lév. à cornulis hypophyllis solitariis gregariis pustulatis epidermide teckis, sporangis clavatis strobis glabris, sporis globosis laevibus luteis.

Pustules jaunes, sparses, composées d'un seul clinode ou de plusieurs clinodes, qui restent constamment recouvertes par l'épiderme. Les sporanges allongés pédicelés, contiennent manifestement une spore sphérique glabre et jaune.

quamvis rarius epiphyllis, rotundatis, prominulis, aurantiaco-flavis; uredosporis globosis v. ovoideis 20-28 = 18-20, punctulato-verrucosis, episporio hyalino (ad 6  $\mu$ . cr.) contentu dilute flavo; immixtis sporis aliis (ad paraphyses transeuntibus) et periphericis fusitoribus, utrinque acutatis, 80 = 12.

*Hab.* ad folia Berberidis buxifoliae in Chili (GAY — An eadem ac *Uredo? ecidiiformis* Speg.?

44. **Uredo** (*Cæoma*) **Rhois** P. Henn. Æthiop. p. 114, t. V, f. 12. — 1313  
Soris hypophyllis, gregariis confluentibusque. fusco-ochraceis, in maculis magnis flavis irregulariter dispositis; uredosporis subglobosis, plerumque leviter angulatis, verrucosis, flavis v. ochraceo-aurantiacis, 18-28 = 16-26.

*Hab.* in foliis vivis Rhois abyssinicae, in Abyssinia.

45. **Uredo** (*Cæoma*) **circumvallata** Magn. Berichte Deut. Bot. Gesell. 1314  
1891, p. 96, t. V, f. 12-20. — Maculis flavidis; soris irregulariter sparsis, saturate flavis, ob paraphyses piliformes periphericas albocinctis; uredosporis subovatis, 22-64 = 16-17, episporio baculis densis exasperato.

*Hab.* in foliis Gei heterocarpi in Armenia turcica (BORN-MÜLLER).

46. **Uredo** (*Cæoma*) **cyclostoma** Lév. Ann. Sc. Nat. 1846, pag. 268, 1315  
Her. Bull. Soc. Myc. 1891, p. 148. — Soris paginam inferiorem obtegentibus, numerosis, in greges congestis, pero circulari late apertis, sordide-flavescentibus; uredosporis ovatis v. limoniformibus, flavidulis, punctulato-verrucosis, 26-32 = 16-20.

*Hab.* ad folia Conyzæ in Chili (GAY).

47. **Uredo** (*Cæoma*) **Anthurii** Har. Journ. de Bot. 1892, p. 458. — 1316  
Soris amphigenis, præsertim epiphyllis, per totam superficiem foliorum sparsis nerviculisque, secus orbem et ferè regulariter ordine concentrico dispositis, hemisphæricis, æqualibus, primum et diu epidermide tectis, macula amphigena orbiculari lateque expansa aurantiaco-flava insidentibus, luteis; uredosporis subrotundatis ellipticisve, utrinque obtusis, episporio crassiusculo, echinulatis (parte superiore præsertim), luteis, 32-36 = 26-28; mycelio inter cellulas folii abundanter et conspicue excurrente.

*Hab.* ad folia Anthurii spec. in calidariis Musei Parisiensis, in Gallia.

*Genera incertæ sedis.*

**UREDINOPSIS** P. Magn. Atti Congr. Gen. p. 167, t. IV, Genus quoad locum systematicum forte prope *Phycomyceteas* locandum, ex *Protomycele? filicino* Niessl institutum.

1. **Uredinopsis filicina** (Niessl) Magnus l. c. *Protomyces? filicinus* 1317  
Niessl. Cfr. Syll. VII, p. 858.

**ULEIELLA** Schroeter Hedw. 1894, p. (65). (Etym. a cl. E. ULE botanico collect. brasiliensi). — Fungus pulveraceus, in phanerogamis parasitans. Massa sporarum (?) in basi foliorum nidulans, sacco e matrice formato inclusa, atra. Sporæ (?) majusculæ, plus minusve rotundatæ, membrana crassa, fusca, corpusculis (sporidiis?) rotundatis repletæ.

1. **UleIELla paradoxa** Schroet. l. c. — Massa sporarum (?) atra, grosse 1318  
pulveracea; sporis (?) globosis, ellipsoideis vel ovoideis, interdum basi attenuatis 20-36 = 14-27, membrana castaneo-fusca, punctulis excavatis exarata; corpusculis (sporidiis?) 6-8, rotundatis v. mutua pressione angulatis, 6-8  $\mu$ . cr. membrana levi præditis.

*Hab.* ad folia *Araucariæ* in Brasilia.

**ÆCIDICONIUM** Vuill. Compt. rend. Acad. sc. Paris 1892, Cfr. Bot. Centralbl. 1893, II, p. 43.

1. **Æcidiconium Barteti** Vuill. l. c. 1319

*Hab.* in foliis *Pini montanæ* in Gallia. — Conidia adsunt, teleutosporæ vero non evolvuntur.

**MICHENERA** B. et C. Cuban Fungi p. 333, Sacc. Syll. VI, pag. 652, Sec. Pat. Bull. Soc. Myc. 1891, p. 42, est *Uredinea!*

*Fam. 2. Ustilaginaceæ Tul.*

**USTILAGO** Pers. — Syll. VII, p. 451, IX, p. 282.

1. **Ustilago confusa** Masee Grev. XX, pag. 65. — Soris ovariiculis 1320  
mox denudatis, pulverulentis, violaceo-nigris; sporis dilute brunneo violaceis, subglobosis v. inæqualiter angulosis, 11-14  $\mu$ . diam, epi-  
sporio levissimo 1  $\mu$ . crass.

*Hab.* in Panicis paradoxii ovariiis, Victoria Australiæ — Ab *U. destruyente*, quacum confundebatur, distincta.

2. **Ustilago comburens** Ludw. Ueb. ein. Rost. und Brandpilze Austral. 1321  
— Soris atris pulverulentis in culmis et paniculis, quæ fere ex toto destruuntur; sporis globosis v. ellipsoideis 4-5 = 3-4, episporio pallide fusco, levi.

*Hab.* in culmis et inflorescentia Stipæ sp., in Australia merid.

3. **Ustilago Holwayi** Diet. Bot. Gaz. 1893 pag. 253. — Soris atro-brunneis, pulvereis, inflorescentiam omnino destruentibus; sporis subglobosis v. obovatis, brunneis, verrucis magnis, asperatis 8-13  $\mu$ . diam. 1322

*Hab.* in Hordeo pratensi, Camp Badger, California.

4. **Ustilago medians** Biedenkopf in Zeitschr. für Paras. 1894, p. 321. 1323

*Hab.* in spicis Hordei vulgaris prope Halle. — Inter *Ust. Hordei* et *U. Jensenii* media.

5. **Ustilago Stuhlmanni** P. Henn. F. Afr. II, p. 3. — Pulvere sporarum atro, soris ad apicem culmorum in rachidem confluentibus, eamque deformantibus, primo duris; sporis globosis, minute verrucosis fusco-brunneis 10-12. 1324

*Hab.* in Andropogonis spec. in Africa centrali.

6. **Ustilago Spinificis** Ludw. Ueb. ein. Rost. und Brandpilze Austral. 1325  
in Zeitsch. Pflanzenkr. 1893, p. 138. — Soris olivaceis flores inquinantibus ovariaque destruentibus; sporis globosis, sublevibus, 3,5-5  $\mu$ . diam., griseo-olivaceis, *Ustilaginis hypodytis* modo germinantibus.

*Hab.* in floribus et spicis Spinificis hirsutæ, in Australia merid.

7. **Ustilago Tricholænæ** P. Henn. F. Afr. II, p. 3. — Soris in ovariiis cornuformibus, atris, 2-4 cm. long. usque ad 1 cm. crass., cuticula tenui, levi (non hirsuta); sporis globosis, fusco-brunneis, punctatis, 8-10 diam. 1326

*Hab.* ad fructus Tricholænæ Teneriffæ in Arabia.

8. **Ustilago Taubertiana** Henn. Fung bras. Glazov. II, pag. 525. — Pulvere sporarum atro, in fructibus incluso, raro, erumpenti; sporis subglobosis v. subellipsoideis, acutangulis, olivaceo-fuscis, minute granulatis, 10-14 = 7-13, episporio fusco-brunneo, vix 5  $\mu$ . cr. 1327

*Hab.* in fructibus Rhynchosporæ tenuis in Brasilia.

9. **Ustilago Vuijckii** Oud. et Beijer. Over twee nog onbekunde fungi in Gewon. 1894, p. 55. — Soris recenter ex ovariiis evacuatis lateritiis; sporis globosis, distincte reticulatis (areolis penta-v. hexa-



gonis) 14-18  $\mu$ . diam., singulis secundum ætatis gradum  $\pm$  pro-  
 ctum fulvis, ferrugineis, ocnraceis, imo achromis; spori periphe-  
 ricis in orbem ordinatis centralibus inordinatis; areolis sporarum  
 2  $\mu$ . latis. cristis 1,5  $\mu$ . crassis; promycelio cylindrico v. anguste  
 clavato. 24 = 2-3, plerumque 3-septato, sporidiolis pleurogenis v.  
 acrogenis, ellipticis v. ovatis 3,5 = 2,5 hyalinis.

*Hab.* in ovariis Luzulæ campestris, pr. Voorschoten Hol-  
 landiæ

10. **Ustilago Liebmanni** P. Henn. Hedw. 1894, p. 230. — Soris in- 1329  
 clusis ex brunneo atris, ovaria destruentibus sed non deformanti-  
 bus; sporis globosis, atro-fuscis, granulatis, 12-16  $\mu$ . diam.

*Hab.* in ovariis Luzulæ, Mexico (LIEBMANN).

11. **Ustilago catenata** Ludw. in Zeitschr. für Pflanzenkr. 1893, p. 139. 1330  
 — Soris micæformibus mycelio et chlamydosporarum catenis con-  
 junctis, cinereo-nigris; sporis oblongis v. rotundato angulatis, 5-  
 6 = 4-6, episporio brunneo plus minus verruculoso.

*Hab.* in spicis Cyperi lucidi in Australia merid. — *U. oli-  
 vaceæ* affinis.

12. **Ustilago juncicola** Speg. F. Guar. pag. 15, n. 43. — Soris atris; 1331  
 sporis ovoideis, 10-12 = 8-9, compressis, episporio levi sed subgib-  
 bosu-undulato, opace fuligineo.

*Hab.* in ovariis Junci Chamissonis prope Guarapi Amer.  
 meridion.

13. **Uredo tonkinensis** P. Henn. Hedw. 1895, p. 11. — Maculis rufo- 1332  
 brunneis, amphigenis; soris hypophyllis rufo-brunneis, subellipticis:  
 uredosporis, 20-28 = 16-26, ovoideo-piriformibus, brunneis, verru-  
 culosis, paraphysibus 45-60 = 15-25 hyalinis.

*Hab.* in follis Andropogonis spec., Hanoi Tonkin (BALANSA).

14. **Ustilago bosniaca** G. de Beck, Schedæ ad Cryptog. exsicc. Cent. 1333  
 I. pag. 121, t. II, f. 1. — Inflorescentiæ partes superiores pedun-  
 culosque valde tumefaciens et replens, demum rumpens; massa  
 sporarum pulverea, atro-violacea; sporis ut plurimum globosis, mi-  
 nutissime verruculosis, 11-15  $\mu$ . diam., atro-violaceis.

*Hab.* in inflorescentia et pedunculis Polygoni alpini in  
 Mont. Vranica Planina Bosniæ, alt. 1600-1900 M. — Cl. G. de  
 Beck l. c. merito condidit pro *Ustilagine austro-americana* Speg.  
 nov. gen. *Melanopsichium* (t. II, fig. 2) et pro *Schröteria Cissi*  
 (D.C.) De Toni, nov. gen. *Mycosyrinx* (t. II, fig. 3).

15. **Ustilago esculenta** P. Henn. Hedw. 1895, p. 10. — Soris oliva- 1334  
 ceo-brunneis in culmis floribusque saccatis, tuberculiformibus, sphæ-

*ca) annulli novi v. critica, Nervis de Anagharo  
 atq. 1894. h. v. S.*

roideis v. elongatis bullato-inflatis plus minus cuticula pallida tectis; sporis subglobosis, 7-9 = 6-8, episporio brunneo, levi 1  $\mu$ . crass.

*Hab.* in inflorescentia adhuc clausa, quam deformat, *Zizania latifoliae*, Hanoi Tonkin. — *U. lineatæ* affinis (BALANSA).

**CINTRACTIA** Cornu. — Syll. VII, p. 480, IX, p. 285.

1. **Cintractia Eriocauli** Mass. Grev. XXII, p. 67. — Primo compacta, demum pulverea; soris magnitudine varia; sporis irregulariter angulatis demum globoso-angulatis, 12-16  $\mu$ . diam., episporio pallide brunneo, levi, circ. 2  $\mu$ . cr. 1335

*Hab.* in ovariis *Eriocauli fenestrati*, Boger in insula Madagascar (BARON).

2. **Cintractia Krugiana** Magn. Sep. Abdr. p. 490. — Sporis globosis, ovoideis v. 4-5-angulatis, 13-16  $\mu$ . diam. v. 16-68 = 10-34, episporio spiraliter verruculoso. 1336

*Hab.* in spicis *Rhynchosporæ giganteæ* prope Manati in insula Portorico.

**TILLETIA** Tul. — Syll. VII, p. 481, IX, p. 286.

1. **Tilletia rugispora** Ell. Descrip. new spec. Fung. in Journ. of Mycol. 1893. p. 275. — Soris griseo-tabacinis; sporis globosis, pallidiuscule brunneis, 15-22  $\mu$ . diam., tuberculoso-reticulatis, reticulis 1  $\mu$ . alt., 1,5  $\mu$ . lat. 1337

*Hab.* in ovariis *Paspali plicatuli*, Texas Amer. bor.

2. **Tilletia Elymi** Diet. et H. Bot. Gaz. 1894, p. 305. — Soris nigris ovaria destruentibus; sporis globosis, atro-olivaceo-brunneis, 24-28  $\mu$ . diam. episporio reticulato, reticulo 2,6-4  $\mu$ . alt. 1338

*Hab.* in ovariis *Elymi* spec. Skamania co. Amer. bor. (SUKS

DORE)

**ENTYLOMA** De Bary — Syll. VII, p. 487, IX, p. 286.

1. **Entyloma Eugeniæ** Cooke et Masee Grev. XIX, p. 92. — Soris pustulas atro-brunneas, applanatas, rotundas v. confluentes et angulosas, 0,5 mm. diam., formantibus, hypophyllis; sporis globosis v. oblongis vel angulosis 10-20 = 10-12, episporio crassissimo, levi, pallide brunneo. 1339

*Hab.* in foliis *Eugeniæ*, Brisbane Australiæ.

2. **Entyloma Trailli** Masee British Fung. p. 192. *Ent. Matricariæ* Trail in Plow. Brit. Ured. and Ustil. p. 291, nec Thüm. — Pustulis caulinis et foliicolis, subrotundo-ovatis minutis, conidiis (*Cy* 1340

*lindrosporii*) fusoido-filiformibus 15-20 = 1,5-2 pallide flavidis, obsolete 3-4-septatis; sporis immersis, rotundo-polygonis, 10-12  $\mu$ . diam., episporio levi 1,5  $\mu$ . cr., hyalino mox brunneo.

*Hab.* in *Matricaria inodora* in Britannia.

3. **Entyloma Nierenbergiæ** Lagerh. Bull. Soc. Myc. 1891, p. 171. — 1341  
Soris non callosis, maculas orbiculares pallidas formantibus; sporis sparsis, globosis v. angulato-globosis 9-12  $\mu$ . diam., membrana tenui levi, flavescenti; conidiis nullis.

*Hab.* in foliis *Nierenbergiæ spathulatæ*, Quito.

4. **Entyloma Veronicæ** (Halst.) Lagerh. Bull. Soc. Myc. 1891, p. 170. 1342  
— Conidiis fusiformibus, 27-30 = 2; sporis globulosis 9-12  $\mu$ . diam., hyalinis, levibus.

*Hab.* ad folia *Veronicæ peregrinæ*, Quito.

5. **Entyloma Calceolariæ** Lagerh. Bull. Soc. Myc. 1891, p. 170. — 1348  
Soris maculas orbiculares 2-6 mm. latas ex albido flavescentes formantibus; sporis angulato-globosis, appendiculatis 12-15  $\mu$ . diam., episporio luteolo, levi, in matrice viva germinantibus; conidiis nullis.

*Hab.* in foliis *Calceolariæ*, Quito.

6. **Entyloma nectrioides** Speg. Fl. Guar. nonnulli p. 16, n. 45. — 1344  
Epiphyllum, sparsum; soris tumidulis, orbicularibus, mediocribus, fulvo-aureis; sporis e globoso ellipsoideis, maximis, levibus, tunica hyalina concentrice striata, endoplasmate aureo.

*Hab.* ad folia *Leguminosæ?* cujusdam arboreæ pr. *Peribebuy* Brasiliæ.

7. **Entyloma Glaucii** Dang. Le Botaniste, 4 serie 1894, pag. 12 c. 1345  
icon.

*Hab.* in foliis *Glaucii* in Gallia. — Oosporæ intercellulares, globosæ v. globoso-ellipsoideæ, tunica crassiusculâ, colorata; maculæ in foliis subcirculares, amphigenæ. De colore et mensuris auctor silet.

**ÆDOMYCES** Sacc. in Trab. Sur. une Ustilaginée parasite de la betterave in Rev. génér. de botanique, 1894, n. 70 (Etym. *oideo* tumeo et *myces*). — De hoc mycete mox professor O. Mattiolo et auctor fusiozem illustrationem dabunt.

1. **Ædomyces leproides** Trab. l, c, cum tabula.

1346

*Hab.* in parte sup. radicum *Betæ vulgaris* var. *rapaceæ*, ubi tumores crassos, carnosos, colliculosos gignit. — Sporæ globoso-depressæ, umbrinæ, 45-50  $\mu$ . diam. e latere 30  $\mu$ . cr., intra cystas

sphæroideas conglobatæ, ramis mycelicis infra sporam vesiculosoinflatis suffultæ, acrogenæ et intercalares.

**SCHROETERIA** Wint. — Syll. VII, p. 550, IX, p. 288.

1. **Schroeteria Cissi** (DC.) De-Toni Syll. VII, 501. — var. **arabica** 1347  
P. Henn. Malp. 1891, p. 89. — Sporis 2-conjugatis, globosis v. polyhedricis, fusco-nigris 11-16  $\mu$ .; episporio crasso, levi; pedicello hyalino 2-5  $\mu$ . long.

*Hab.* intra petiolos et ramulos Cissi quadrangularis in Arabia.

**TOLYPOSPORIUM** Woron. — Syll. VII, p. 501.

1. **Tolyposporium Davidsonii** Diet. et H. Bot. Ges. 1894, pag. 305, 1348  
tab. 29, f. 5. — Sporis intra minutas gallas sphæricas duriusculas 0,7 mm. diam., in perigoniis matricis generatas, pulverulentibus, pulverulentis, læte brunneis tandem erumpentibus, in maculas polymorphas per 2-7 aggregatis; sporis oblongis v. isodiametricis hinc applanatis, extus dense verrucosis, 12-15 = 7-13.

*Hab.* in perigoniis Atriplicis spec., Los Angeles Californiæ (DAVIDSON).

**DOASSANSIA** Cornu. — Syll. VII, p. 502, IX, p. 288.

1. **Doassansia Sintenisii** Bres. in Bres. Henn. et Magnus Pilze Portorico Sinten. p. 489. — Soris plerumque amphigenis, rotundatis v. irregularibus, pustuliformibus, in maculis purpureis indeterminatis insidentibus; sporis rotundato-angulatis, sæpe conglobatis, aureo-fulvis, levibus 5-7  $\mu$ . diam., tegumento communi pallido parum distincto. 1349

*Hab.* in foliis Cedro-matshos (?) in insula Portorico (SINTENIS).

2. **Doassansia ranunculina** Davis Bot. Gaz. 1894, p. 416. 1350

*Hab.* in foliis raro petiolis Ranunculi multifidi in udis Wisconsin Amer. bor. — Maculæ brunneæ, 2-4 mm. diam.; sori subglobosi 100-200  $\mu$ . diam.; sporæ sphæroideæ v. subglobosæ, 6-10  $\mu$ . diam.; corticis cellulæ unistratosæ, sectione subquadrata, 10-15 = 8-12; promycelium et sporidiola adsunt.

3. **Doassansia Gossypii** Lagerh. Journ. of Myc. 1891, p. 49. — Soris 1351  
rotundatis punctiformibus, minimis, sparsis, atris arcte, conjunctis, ovalibus v. oblongis, 21-30 = 12-15, episporio levi, dilute luteolo, tegumento communi e cellulis minoribus, membrana fusca, levi constituto.

*Hab.* in foliis *Gossypii* spec. ad Balsapamba Æquatoria.

4. **Doassansia deformans** Setchell Exam. Doass. p. 44, t. I, f. 51-58 1352  
et II, f. 81. — Soris subglobosis, 100-140  $\mu$ . diam., pallidis; sporis 8-12 = 4-6; corticis cellulis depressis, distinctis; promycelio obconico, circ. 12  $\mu$ . long.; sporidiolis 5-6 in quoque verticillo, late fusoides.

*Hab.* in petiolis, foliis, pedunculis et ovaris *Sagittariæ* variabilis, Norwich et Cambridge Amer. bor

5. **Doassansia opaca** Setchell Exam. Doass. p. 43, t. II, f. 72-74. — 1353  
Macula orbiculari, utrinque subinflata, citrina; soris indistinctis, subcuboideis, confertis, 200-300 = 80-100, subglobosis, 10-15  $\mu$ . diam.; corticis cellulis irregularibus subcuboideis vel lateriformibus.

*Hab.* in *Sagittaria* variabilis, Newton, Massachussetts Amer. bor.

6. **Doassansia obscura** Setchell Exam. Doass. p. 43, t. I, f. 33-34 et 1354  
II, f. 75-77. — Macula citrina, indistincta v. nulla; soris in lineas verticales intra interstitia intercellularia subglobosis, 150-300 diam.; corticis cellulis obconicis, dilute brunneis; promycelio cylindraco, circ. 20  $\mu$ . long.; sporidiolis 5-7 in quoque verticillo, 16-17 = 1.5-2, sporidiola secundaria sine conjugatione gignentibus.

*Hab.* in petiolis et pedunculis *Sagittariæ* variabilis Norwich, Connecticut Amer. bor

*Annals of Botany, Lond. Apr. 1892, vol. VI, p. I (N. 21)*

**CORNUELLA** Setchell Exam. Doass. p. 45 (Etym. ab illustri M. CORNU). — Sori extus e stratu firmo sporarum, intus ex hyphis laxis constituti. Cortex nullus.

1. **Cornuella Lemnæ** Setch. l. c. t. II, f. 82-83. — Macula nulla; soris e globoso ellipsoideis, 50-70  $\mu$ . diam., brunneolo nigris; hyphis brunneis; sporis acrogenis, 10-12 = 6-12; promycelio obconico, circ. 16  $\mu$ . long.; sporidiolis 5-7 in quoque verticillo circ. 26 = 2

*Hab.* in *Lemna-polyrrhiza*, Belchertown Newton et Cambridge Amer. bor

**BURRILLIA** Setchell Exam. Doass. p. 44 (Etym. a cl. prof. T. J. BURRILL). — Sori ad centrum parenchymatici. Sporæ in stratus plures, irregulares, compactos dispositæ. Cortex nullus

1. **Burrillia pustulata** Setch. l. c. t. II, f. 84. — Macula nulla v. vix 1356  
distincta; soris pustulas hypophyllas demum gignentibus, erumpentibus, ellipsoideis, 200-300 = 150-180; sporis 2-6-seriatis, polyhe-

dricis, 4-6  $\mu$ . diam.; promycelio cylindræo; sporidiolis 4-5 in quoque verticillo, 16 = 3.

*Hab.* in foliis Sagittariæ variabilis, Dixon et Madison Amer. bor.

**THECAPHORA** Fing. — Syll. VII, p. 507, IX, p. 289.

1. **Thecaphora oligospora** Cocconi Svil. tre picc. fung. p. 7, t. I, f. 1-7. 1357

— Nigricans, pulverulenta, floricola; glomerulis inæqualiter globosis, brunneo-nigris, 25-32  $\mu$ , diam., cellulis v. sporis subæqualibus, pentagono-polyhedricis, 5-8  $\mu$ . diam., in quoque soro 8-12, e isporio levi.

*Hab.* in spicis Caricis digitatæ, Casalecchio pr. Bononiam. — Ob numerum exiguum cellularum in quoque glomerulo prædistincta species.

**SOROSPORIUM** Rud. — Syll. VII, p. 511, IX, p. 288.

1. **Sorosporium Solidaginis** E. et E. New sp. north Amer. Fung. in 1358

Proceed. Acad. S. N. Philad. 1893, pag. 156. — Glomerulis, subglobosis, 30-50  $\mu$ . diam., e sporis 12-40 v. ultra stricte conglutinatis, 8  $\mu$ . diam., episporio delicate verrucoso, fumoso-succineis, constitutis.

*Hab.* in floribus Solidaginis missourensis. Rockport. Kansas Amer. bor.

**UROCYSTIS** Rab. — Syll. VII, p. 515, IX, p. 290.

1. **Urocystis Waldsteiniae** Peck 46 Rep. p. 32. — Soris magnis, ob- 1359

longis, secus folii nervos dispositis, epidermide lacera cinctis, nigris; sporis haud facile secedentibus, in quoque glomerulo 3-6, subglobosis v. ellipsoideis, sæpe angulatis, 12.5-15 = 10-12.5.

*Hab.* in foliis Waldsteiniae fragarioidis, Alcone Amer. borealis.

2. **Urocystis Oxalidis** Pазschke Hedw. 1892, p. 94. — Soris primo 1360

tectis dein erumpentibus; glomerulis sporarum forma variis, irregulariter globosis, v. oblongis; sporis centralibus 3-10, globosis v. oblongis, læte fulvis 10-20 = 9-11; sporis periphericis subhemisphæricis v. irregularibus, numero vario, subhyalinis, usque ad 4-5  $\mu$ . cr.

*Hab.* in petiolis scapisque Oxalidis, Tubarao, in Brasilia.

**CEREBELLA** Ces. — Syll. VII, p. 523, IX, p. 290 (Dubiae sedis).

1. **Cerebella Spartinæ** E. et E. New sp. north Amer. Fung. in Pro-ceed. Acad. S. N. Philad. 1893, p. 156. — Stromatibus 2-4 mm. lat., tenuibus. subconfluentibus, gyroso-v. poroso-plicatis, atro-olivaceis; sporis singulis ovoideis v. globosis, 6-10  $\mu$ . diam., pallidis, episporio minute granulatis, 3-4 in glomerulos subquadratos connatis, 12-16  $\mu$ . diam. sæpe brevi crasseque pedicellatis.

*Hab.* in spicis **Spartinæ** gracilis, Biloxi, Missouri Amer. borealis.

## PHYCOMYCETÆ DE BARY.

Syll. VII, p. 181, IX, p. 335 \*).

### Fam. 1. Mucoraceæ De Bary.

**MUCOR** Mich. — Syll. VII, p. 190, IX, p. 335.

1. **Mucor septatus** Bezold in Sieb. Schimmelmyc. d. Ohres 1889, 1362  
p. 97, t. 4, f. 3, A. Fisch. Phycom. p. 208.  
*Hab.* in interiore aurium, in Germania. — Verisimiliter non  
diversus a *M. racemoso*.
2. **Mucor helminthophthorus** De Bary et Keferst. in Zeitschr. wiss. 1363  
Zool. 1861, XI, t. XV, A. Fisch. Phycom. p. 210.  
*Hab.* in Ascaride Mystace, in Germania.
3. **Mucor melittophthorus** Hoffm. in Hedwigia 1857, p. 119, t. 16, 1364  
Fisch. Phyc. p. 210.  
*Hab.* in interiore Apium in Germania.
4. **Mucor rufescens** Fisch. Phyc. p. 192. 1365  
*Hab.* in fimo Elephantis in Germania.
5. **Mucor heterosporus** Fisch. Phycom. p. 199. 1366  
*Hab.* in fimo Hyænæ, Tigris, Leonis etc. in Germania.
6. **Mucor alternans** Van Tiegh. in Ann. Inst. Pasteur I, p. 534, f. 1-10, 1367  
Fisch. Phycom. p. 205.  
*Hab.* in fimo; nec non cultus in solutione saccharina etc. in Gallia.
7. **Mucor platensis** Speg. Rev. Arg. H. N. 1891, p. 28. 1368  
*Hab.* in republica Argentina.
8. **Mucor piriformis** Fisch. Phyc. p. 191. 1369  
*Hab.* in fructibus Piri Mali putridis, in Germania.
9. **Mucor globosus** Fisch. Phycom. p. 202. 1370  
*Hab.* in pane, in fructibus Æsculi, Juglandis etc. in  
Germania.

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\*) Quam jam habeamus Phycomycetum absolutam monographiam a cl. doct.  
A. FISCHER pro *Kryptogamen-flora Deutschl.* I, iv. Leipz. 1892, elaboratam,  
qua nullus mycologus carere potest, hic species et genera Syllogi addenda  
tantum enumeravi, additis locis natalibus; cetera videas apud Fischer l. c.



10. **Mucor parasiticus** Bain. Ann. Sc. Nat. 1884, p. 212, t. 9, f. 11. 1371  
Fisch. Phycom. p. 208.

*Hab.* ad hyphas aliorum mycetum parasitice in Gallia.

11. **Mucor? chlorosporus** Bonord. Abh. 1864, p. 113, t. 2, f. 3 (*Hy-* 1372  
*drophora*), Fisch. Phycom. p. 209.

*Hab.* in substantiis variis putridis, in Germania. An Hypo-  
mycetea?

**RHIZOPUS** Ehrenb. — Syll. VII, p. 212.

1. **Rhizopus Oryzæ** Went, Beobacht. Hefeart. etc der Arackfabr. p. 16, 1373  
t. II-IV.

*Hab.* in *Oryzæ* fructibus fermentescentibus. Kagok, Tegal Javæ.  
— Sporangia subglobosa 170  $\mu$ . circ. diam.; apophysis 35  $\mu$ . diam.,  
columella 120  $\approx$  100; sporæ ellipsoideæ, leves 7-8  $\approx$  4-5.

2. **Rhizopus arrhizus** Fisch. Phycom. p. 233. 1374

*Hab.* in capsulis immaturis putridis Liliacearum, in baccis  
*Ribis* immaturis, in Germania.

**ABSIDIA** Van Tiegh. — Syll. VII, p. 214, IX, p. 337.

1. **Absidia dubia** Bain. Etud. Mucor. 1882, p. 73, Fisch. Phycom. 1375  
p. 239.

*Hab.* in substantiis putrescentibus in Gallia. — Sporæ 2,2 4  
 $\approx$  2,2.

**THAMNIDIUM** Link. — Syll. VII, p. 211, IX, p. 337.

1. **Thamnidium simplex** Bref. Unters. IV, 1881, p. 58, t. 2, f. 6, Fisch. 1376  
Phycom. p. 245.

*Hab.* in fimo in Germania.

**DICRANOPHORA** Schröt. Jahresb. Schles. Ges. LXIV, (1886) p. 184,  
Fisch. Phycom. p. 253 (Etym. *dis* bis *cranon* et *phoreo* fero). —  
Sporangia dimorpha; majora sporis ellipsoideis, minora (sporan-  
giola) sporis reniformibus majusculis fœta.

1. **Dicranophora fulva** Schröt. l. c. 1377

*Hab.* in Paxillo involuto pr. Rastatt Germaniæ.

**MORTHIERELLA** Coem. — Syll. VII, p. 220, IX, p. 337.

1. **Morthierella capitata** March. Champ. copr. VI. p. 3. — Mycelio 1378  
repenti, inordinate ramoso, flexuoso, continuo, albo; hyphis fructi-  
feris basi appendiculis mycelicis crassis munitis, erectis interdum

inferne curvatis, continuis, 350-500  $\mu$ . longit. non superantibus, in media parte 18-23  $\mu$ . cr. simplicibus (rarissime 1-2 ramos breves haud inflatos exhibentibus), cylindraceutis, inferne sensim incrassatis, apice ovoideo-inflatis, 13-18  $\mu$ . diam. ramulos simplices (rarius irregulariter bifurcatos) cylindricos, graciles, rectos vel inferne arcuatos, 8-14 = 2,5-4 apice sporangiferos gerentibus; sporangiis numerosis, globosis, oligosporis, hyalinis, pedicellatis, in capitulum magnum, 57-92  $\mu$ . diam. confertis; sporis semper eximie sphaeroides, vix gelatinoso-congestis, nucleo magno repletis, 8,5-10  $\mu$ . diam. hyalinis.

*Hab.* parasitica in stromatibus filiformibus Xylariæ Tulasnei, supra fimum leporinum evolutis, Boekryk Belgii.

2. *Morthierella? umbellata* Bonord. Abhand. Mykol. II, p. 45, (*Hy. drophora*), Fisch. Phyc. p. 282.

*Hab.* in pane albo udo in Germania.

**PIPTOCEPHALIS** De Bar. et W. — Syll. VII, p. 225, IX, p. 338.

1. *Piptocephalis fuispora* Van Tieg. Syll. VII, p. 226. — var. *lepidula* March. Champ. copr. VI, p. 5. — Mycelio adnato, albo, arachnoideo, continuo, flexuoso, parce ramoso, 2  $\mu$ . diam.; hyphis fertilibus basi appendiculis mycelicis curvatis ornatis, erectis, continuis, luteo-brunneolis, pro genere minutissimis, tantum 140-280 = 3-3,8  $\mu$ . ramosis, 2-4, ramis primariis, verticillatis v. subverticillatis, rarius in duos verticillos approximatos digestis, simplicibus aut semel aut bis dichotome divisis, apice vesiculoso-inflatis, vesicula ovoidea, minuta, tuberculigera demum caduca; sporangiis paucis, cylindraceutis, brevibus, 2-sporis; sporis ellipticis, 4-4,2 = 2-2,3  $\mu$ . hyalinis.

*Hab.* ad Mucorem racemosum in fimo Macropodis seu «kanguroo» ex horto zoologico Gandavensi misso domique humectato servato.

**HELICOSPORANGIUM** H. Karst. — Syll. IX, p. 338.

1. *Helicosporangium coprophilum* Zuk. Unter. Pilzbulb. p. 6, t. IV, 1381 f. 3.

*Hab.* in fimo equino Vindobonæ Austriæ, socio Stysano Ste-monite. — Bulbilli subglobosi atrorubri 40-60  $\mu$ . d., e cellulis centralibus polyhedricis pluriguttatis; hyphæ sæpe scorpioideo-curvæ.

**CHLAMYDOMUCOR** Bref. sec. Went et Prinsen-Geerlings, Over Sui-

ker-en alcoholivorming etc. p. 7, t. III, f. 1-8 et Beob. Arackfabr. Amsterd. 1895, p. 14. — Propagatio tantum per chlamydoformas.

1. *Chlamydomucor Oryzæ* W. et P. l. c.

1382

*Hab.* in *Oryza fermentescenti*, Kagok-Tegal Javæ. — Forte status *Mucoris Oryzæ* Went. ex ipso auctore.

2. *Chlamydomucor Rouxii* (Calm.) Went. l. c. *Amylomyces Rouxii* 1383

Calmette Ann. Inst. Pasteur, Paris 1892, VI, p. 604.

*Hab.* in *Oryza fermentescenti* «levure chinoise» in Gallia.

**SYNCEPHALASTRUM** Schröt. — Syll. VII, p. 232.

*Syncephalastrum nigricans* Vuillem. in Bull. Soc. Sc. Nancy 1887, 1384 p. XXXIV, Fisch. Phycom. p. 309, nec *Syncephalis nigricans* Van Tieghl.?

*Hab.* in gelatina uda foedata in Gallia.

2. *Syncephalastrum elegans* March. Bull. Soc. Belg. Microsc. 1893, 1385

p. 124, c. ic.

*Hab.* in cortice udo *Cinchonæ rubræ*, Bruxelles. — Hyphæ 1-3 mm. long., 10-25  $\mu$ . cr., hyalinæ, ramosæ, vesiculis 50-80  $\mu$ . diam. terminatæ; sporangia cylindræa 40-60 = 2,5-5; sporæ globoso-cuboideæ 2-3,5  $\mu$ . d. hyalinæ.

**Fam. 2. Paronosporaceæ De Bary.**

**CYSTOPUS** Lév. — Sacc. Syll. VII, p. 233, IX, p. 340 \*).

1. *Cystopus Tilleæ* Lagerh. Bull. Soc. Myc. 1891, p. 167, t. XI, f. III. 1386

*Hab.* in foliis *Tilleæ* rubescentis, Quito Æquatoriæ.

2. *Cystopus platensis* Speg. Rev. Arg. H. N. 1891, p. 28. 1387

*Hab.* in foliis *Boerhaviæ hirsutæ* La Plata.

3. *Cystopus tropicus* Lager. Bull. Soc. Myc. 1892, p. 123. 1388

*Hab.* in foliis *Piperacææ* cujusdam, Puente de Chimbo Æquatoriæ.

4. *Cystopus Euphorbiæ* Cooke et Mass. Græv. XX, p. 106. — Soris 1389

plerumque cauliculis, oblongis confluentibusque, in plagas atrofuscas insidentibus; conidiis subglobosis vel oblongis, 12 = 8, achrois

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\* ) Nomen *Albugo*, quod jam Persoon adhibuit ut sect. *Ustilaginis* (!) et quod nonnulli hodie resuscitare volunt pro ubique accepto et eximie desueto *Cystopus*, est omnino rejicendum, etiam ex eo quod sit ex nominibus communibus (Cfr. *albugo* in Lexicis) quæ jam Linné a generibus excludenda merito prædicabat (Cfr. ejusdem *Termini botanici* § 231).

membrana minute asperula, subcrassa; oosporis subglobosis, levibus, succineis,  $15 \times 12$  (junior.).

*Hab.* in *Euphorbia hebecarpa* pr. Bachtary Persiæ (Doct. STAFF).

**PLASMOPARA** Schröt. — Syll. VII, p. 239, IX, p. 342.

1. *Plasmopara Helioearpi* Lager. Bull. Soc. Myc. 1892, p. 123. 1390

*Hab.* in foliis *Helioearpi* americani, Puente de Chimbo Æquatoriæ.

**PERONOSPORA** Corda. — Syll. VII, p. 244, IX, p. 342.

1. *Peronospora Cytisi* Magn. in Hedw. 1892, p. 150, t. VIII, f. 1-12. 1391

*Hab.* in foliis *Cytisi Laburni*, pr. Kissingen Germaniæ — Conidia  $23 \times 17-18$ ; oosporæ globoso-angulosæ, sulcatæ, 28  $\mu$ . d.

2. *Peronospora Hydrophylli* M. B. Waite, Journ. Mycol. VII, p. 107, 1392

t. XVII, f. 17-24.

*Hab.* in *Hydrophylo virginico*, Illinois, Iowa, Washington Amer. bor.

3. *Peronospora Impatientis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 86. 1393

— Laxe cæspitulosa, confluens, alba, hypophylla; hyphis 200-300  $\times$  8-10, iterato-trifidis, ramis patentibus, apice 3-spiculosis; conidiis globosis 12-14  $\mu$ . diam. v. ellipsoideis 15-17  $\times$  12-14; oosporis ignotis.

*Hab.* in foliis *Impatientis fulvæ*, Wilmington Del. Am. bor.

4. *Peronospora Nicotianæ* Speg. Rev. Arg. H. N. 1892, p. 28-38. 1394

*Hab.* in foliis *Nicotianæ longifloræ*, Argentina.

5. *Peronospora phlogina* Diet. et H. Bot. Gaz. 1894, 306. 1395

*Hab.* in foliis *Phlogis divaricatæ*, Decorah, Iowa Amer. bor. (HOLWAY). — Conidia 26-29  $\times$  16-20, subhyalina; oosporæ sphaericæ 32-48  $\mu$ . diam., verrucosæ flavo-brunæ.

6. *Peronospora Borreriæ* Lager. Bull. Soc. Myc. 1892, p. 123. 1396

*Hab.* in foliis *Borreriæ*, Puente de Chimbo Æquatoriæ.

7. *Peronospora Celtidis* M. B. Waite, Journ. Myc. I. VII, p. 105, 1397  
t. XVII, f. 1-16.

*Hab.* in foliis *Celtidis occidentalis*, Washington Am. bor.

8. *Peronospora Gonolobi* Lagerh. Journ. of Myc. 1891, p. 49. 1398

*Hab.* in foliis *Gonolobi* in Carolina infer. Amer. bor.

**CHLOROSPORA** Speg. Rev. Arg. H. N. 1891, p. 29 (Etym *chloros* virens et *spora*).

1. **Chlorospora vastatrix** Speg. l. c. 1399  
*Hab.* in bulbis Allii Cæpæ, La Plata Amer merid.

**PYTHIUM** Pringsh. — Syll. VII, p. 270, IX, p. 347.

1. **Pythium intermedium** De Bary, Bot. Zeit. 1881, Fisch. Phyc. p. 407. 1400  
*Hab.* in plantulis emortuis Lepidii et Amaranthi, aqua jam immersis etc. in Germania.
2. **Pythium Artotrogus** (Mont.) De Bary l. c. 1881, 578, *Artotrogus* 1401  
*hydno sporus* Mont. Ann. Sc. Nat. 1849, p. 56.  
*Hab.* in plantis emortuis udis in Gallia et Germania.
3. **Pythium complens** Fisch. Phyc. p. 398, *Pythium reptans* De Bary 1402  
 p. p.  
*Hab.* in Muscis putridis aqua immersis etc. in Germania.
4. **Pythium ferax** De Bary, Bot. Zeit. 1881, p. 562. 1403  
*Hab.* in Muscis emortuis etc. in Germania.
5. **Pythium vexans** De Bary, Bot. Zeit. 1881. p. 537, Fisch. Phyc. 1404  
 p. 406, nec *P. De-Baryanum* Hesse.  
*Hab.* in tuberibus putrescentibus Solani tuberosi, saprophytice, in Germania.
6. **Pythium? Actinosphærii** Brandt, Monat. Berl. Acad. 1881, p. 399, 1405  
 f. 33. 53.  
*Hab.* in Actinosphærio in Germania.
7. **Pythium? incertum** Renny in Just Jahresber. 1876, p. 134. 1406  
*Hab.* in foliis Cupheæ cultæ in Britannia.
8. **Pythium dictyospermum** Racib. in Fisch. Phycom. p. 490. 1407  
*Hab.* ad Spirogyram in aquis Poloniæ. — *P. gracili* affine.

*Fam.* 3. **Saprolegniaceæ** De Bary.

**SAPROLEGNIA** Nees. — Syll. VII, p. 268, IX, p. 345.

1. **Saprolegnia Treleaseana** Humphrey, Sapro. Unit. Stat. p. 111, 1408  
 t. XVII, f. 56-59.  
*Hab.* in aquis Massachusetts Amer. bor. (TRELEASE).
2. **Saprolegnia philomukes** W. Smith in Masseur Br. Fungi 1891, p. 218. 1409  
*Hab.* parasitica in Isaria fuciformi, in Britannia.
3. **Saprolegnia elongata** Mass. Br. Fungi 1891, p. 217, f. 47-49. 1410  
*Hab.* in stipite putrescenti Filicis cujusdam arboreæ in aquario in Britannia.

**ACHLYA** Rees. — Syll. VII, p. 274, IX, p. 346.

1. **Achlya Nowickii** Racib. in Fisch. Phyc. p. 490. 1411

*Hab.* inter Saprolegniam monoicam ad pisces ægrotantes, in Polonia. — *A. spinosæ* affinis.

2. **Achlya americana** Humphrey Sapr. Unit. St. p. 116, t. XVIII, 1412 f. 69-73.

*Hab.* in aquosis, Massachusetts, Pensilvania, Alabama et Louisiana, Amer. bor.

3. **Achlya megasperma** Humphrey Sapr. Unit. Stat. p. 118, t. XVIII, 1413 f. 74-77.

*Hab.* in animalculis aquaticis, Massachusetts Amer. bor.

4. **Achlya papillosa** Humphrey Sapr. Unit. St. p. 125, t. XX, f. 99-102. 1414

*Hab.* in animalculis aquaticis, Massachusetts Amer. bor.

5. **Achlya aplanes** Adam M. in Flora 1894, Ergänzt. p. 135, t. IV, 1415 f. 28-31.

*Hab.* in luto algis mixto rivuli cujusdam pr. Klein. Scheidegg. Graubünden Helvetiæ. — Affinis *A. oblongatæ* et *A. proliferæ*, sed prædistincta.

**BLASTOCLADIA** Reinsch in Fisch. Phyc. p. 367 (Etym. *blastos* germen et *clados* ramus).

1. **Blastocladia Pringsheimii** Reinsch l. c. 1416

*Hab.* in fructibus Mali in aqua putrescentibus in Germania.

**APODACHLYA** Pringsh. Ber. d. bot. Ges. I, p. 289, Fisch. Phyc. p. 373 (Etym. *a* priv. *pous* pes et *Achlya*). Huc spectat quoque *A. brachynema* (Hildenb.) Prings., *Leptomitus brachynema* Hild.-Syll. VII, p. 265.

1. **Apodachlya (?) completa** Humphrey Sapr. Unit. Stat. p. 137, t. XX, 1417 f. 119-121.

*Hab.* in aquosis Louisiana Amer. bor. (LANGLOIS).

2. **Apodachlya pirifera** Zopf. Nov. Act. Leop. 1888, p. 362, Fisch. 1418 Phyc. 374.

*Hab.* ad Characeas putres, in Germania.

**NAEGELIA** Reinsch, in Fisch. Phyc. p. 377 (Etym. ab illustri C. NÆGELI). — Auctor distinguit sine nomine duas species, quarum una inventa est in caulibus Visci putridis aqua immersis, altera in Algis viridibus: utraque in Germania.

*Fam. 4. Chytridiaceæ De Bary et Wor.*

**OLPIDIUM** A. Braun. — Syll. VII, p. 310, IX, p. 361.

1. **Olpidium pendulum** Zopf in Schenk's Handb. IV, 1890, p. 555 t. 66, 1419  
I-V, Fisch. Phycom. p. 30.

*Hab.* in polline Pini in Germania.

2. **Olpidium simulans** De Bary et Woron. in Ber. nat. Ges. Freib. III, 1420  
1863, p. 29, t. II, f. 11-16, Fisch. Phycom. p. 29.

*Hab.* in epidermide foliorum juvenilium Taraxaci officinalis, socio Synchytrio Taraxaci, in Germania.

3. **Olpidium Bryopsisidis** De Bruyne Arch. biol. X, p. 85, t. V, f. 1-15. 1421  
Fisch. Phycom. p. 26.

*Hab.* in Bryopside plumosa in sinu Neapolitano.

4. **Olpidium zygneticum** Magnus Bot. Ver. Brand. XXVI, p. 79, 1422  
Fisch. Phycom. p. 25.

*Hab.* in quodam Zygnemate sterili, in Germania.

5. **Olpidium Sphacelariarum** Koy Sitzungsber. nat. Fr. Berl. 1871, 1423  
(*Chytridium*), Fisch. Phycom. p. 26.

*Hab.* in Sphacelariis variis, in mari Baltico etc.

6. **Olpidium aggregatum** Dang. in Botaniste 1891, p. 237, t. 16, f. 25- 1424  
26, Fisch. Phycom. p. 26.

*Hab.* in Cladophoris marialis, in Europa.

**REESIA** Fisch — Syll. VII, p. 304.

1. **Reesia Cladophoræ** Fisch in Sitz. med. phys. Soc. Erlang. 1884, 1425  
Fisch. Phycom. p. 32.

*Hab.* in Cladophoris, in Germania.

**PSEUDOLPIDIUM** Fisch. Phycom. Deutschl. p. 33 (Etym. *pseudos falsus*  
*et Olpidium*).

1. **Pseudolpidium Saprolegniæ** (A. Braun.) Fisch. l. c., *Chytridium* 1426  
*Saprolegniæ* A. Braun Abb. Berl. Acad. 1855, p. 61, pr. p.

*Hab.* in Saprolegniis, Achlyiis, Aphanomycete etc.  
in Germania.

2. **Pseudolpidium glenodinianum** (Dang.) Fisch, l. c. p. 36, *Olpidium* 1427  
Dang. Journ. de Bot. 1888, p. 6.

*Hab.* parasitice in Glenodinio cincto (e Peridineis) in Gal-  
lia et Germania.

**OLPIDIOPSIS** Cornu. — Syll. VII, p. 299, IX, p. 362.

1. *Olpidiopsis minor* Fischer Phycom. p. 39. 1428  
*Hab.* in *Achlyia leucosperma*, *A. racemosa* etc. in Germania et Gallia.
2. *Olpidiopsis Schenkiana* Zopf in Nov. Act. Leop. XLVII, 1884, 1439  
 p. 168, t. 15, f. 1-32, Fisch. Phycom. p. 39.  
*Hab.* in *Mesocarpo*, *Mougeotia*, *Spirogyris* etc. in Germania.
3. *Olpidiopsis parasitica* (Fisch.) Fisch. Phycom. p. 40, *Pleocystidium* 1430  
*parasiticum* Fisch. Beitr. Chytrid. 1884, p. 42, f. 24-29.  
*Hab.* in *Spirogyris*, in Germania.

**SYNCHYTRIUM** De Bary. — Syll. VII, p. 288, IX, p. 357.

1. *Synchytrium Melicopidis* Cooke et Masee Grev. XX, p. 120. — 1431  
 Cellulis perdurantibus aggregatis, subconfluentibus, granuliformibus, violaceis, 20-25  $\mu$ . diam., vulgo maculis orbicularibus, epiphyllis, atropurpureis insidentibus.  
*Hab.* in foliis *Melicopidis simplicis* in Nova Zelandia (COLENZO).
2. *Synchytrium Geranii* Ida Clendenin in Bot. Gaz. 1895, p. 30, t. I, 1432  
*S. Geranii* E. et G. et *S. Fairchildii* E. et G. in herb. sec. Clend.  
*Hab.* in foliis *Geranii caroliniani*, quæ deformat, Baton Rouge Amer. bor. — Sori 75-125  $\mu$ . diam.; sporangia 20-37  $\mu$ . diam.; sporæ perdurantes 35-150  $\mu$ . diam. atro-brunnæ.

**WORONINA** Cornu. — Syll. VII, p. 301.

1. *Woronina elegans* (Perronc.) Fisch. Phycom. p. 66, *Chytridium* 1433  
*elegans* Perr. in Centralbl. f. Bakter. 1888, p. 295, nec Nowak.  
*Hab.* in *Philodina roseola* ex Rotatoriaceis, in thermis Vinadio et Valdieri Pedemontii.

**MICROMYCES** Dangeard, in Botaniste I, 1888, p. 55, Fisch. Phyc. p. 71 (Etym. *micro* parvus et *myces*).

1. *Micromyces Zygonii* Dang. l. c. p. 52, t. 2, 1-10, 1891, t. 17, 1434  
 f. 2-8, Fisch. l. c.  
*Hab.* in *Zygoniis* in aquis Galliaë.

**ROZELLA** Cornu. — Syll. VII, p. 300.

1. *Rozella simulans* Fischer, Jahrb. f. Wiss. Bot. 1882, p. 50, Phycom. 1435  
 p. 71.  
*Hab.* in *Achlyia polyandra*, *A. racemosa* in Germania.



**LAGENIDIUM** Schenk. — Syll. VII, p. 278, IX, p. 348.

1. **Lagenidium Syncytiorum** Klebahn Schmarotz. Bremens p. 375. 1436

*Hab.* in *Ædogonio Boschii* in Bremen.

2. **Lagenidium gracile** Zopf in Nov. Act. Leop. 1884, p. 158, Fisch. 1437  
Phycom. p. 82.

*Hab.* in zygosporis *Spirogyræ* speciei, in Germania.

**RHIZOPHIDIUM** Schenk. — Syll. VII, p. 298, IX, p. 362.

1. **Rhizophidium Haynaldii** (Schaarschm.) Fisch. Phycom. p. 92, *Phly-* 1438  
*ctidium Haynaldii* Schaarschm. in *Hedwigia* 1883, p. 125.

*Hab.* in *Ulotriche zonata* in Germania.

2. **Rhizophidium Barkerianum** (Arch.) Fisch. Phycom. p. 103. 1439

*Hab.* in *Zygnematibus* in Germania et Britannia.

3. **Rhizophidium gibbosum** (Zopf) Fisch. Phycom. p. 102. 1440

*Hab.* in *Cylindrocysta*, *Phycastro*, *Penio* ex *Desmidiacis* in Germania.

4. **Rhizophidium algæcolum** Zopf in Nov. Act. Leop. 1884, p. 204, 1441  
(nomen) Fisch. Phycom. p. 106.

*Hab.* in *Spirogyris* in Germania.

5. **Rhizophidium agile** (Zopf) Fisch. Phycom. p. 96. 1442

*Hab.* in *Chroococco turgido* in Germania.

6. **Rhizophidium echinatum** (Dang.) Fisch. Phycom. p. 96. 1443

*Hab.* in *Glenodinio cincto* in Gallia et Germania.

7. **Rhizophidium? irregulare** (Wild.) Fisch. Phycom. p. 105, *Chytri-* 1444  
*dium* Wildeman Ann. Soc. belg. micr. 1890, p. 21.

*Hab.* in *Diatomea quadam* in Belgio.

**RHIZIDIUM** A. Braun. — Syll. VII, p. 269, IX, p. 358.

1. **Rhizidium catenatum** Dang. in *Botaniste* 1888, p. 65, t. 3, f. 24, 1445  
Fisch. Phycom. p. 109.

*Hab.* in *Nitella tenuissima* in Gallia et Germania.

2. **Rhizidium Westli** Mass. Brit. Fungi 1891, p. 155, f. 36-37. 1446

*Hab.* gregatim in *Spirogyra nitida* et *Cladophora glomerata* in Germania.

3. **Rhizidium Euglenæ** Dang. in Ann. Scienc. Nat. 1886, p. 301, t. 13, 1447  
f. 11-19, Fisch. Phycom. p. 108.

*Hab.* in *Euglena* in Gallia et Germania.

4. **Rhizidium vernale** Zopf in Nov. Act. Leop. 1884, pag. 234, t. 21, 1448  
f. 12-20, Fisch. Phycom. p. 108.

*Hab.* in *Chlamydomonade* in Germania.

**SEPTOCARPUS** Zopf in Nov. Act. Leop. LII, (1888) p. 348, Fisch. Phycom. p. 112 (Etym. *septum* et *carpos* fructus).

1. **Septocarpus corynephorus** Zopf l. c. p. 348, t. 20, f. 21-28. 1449  
*Hab.* in speciebus Pinnulariæ in Germania.

**ACHLYELLA** Lagerh. in Hedw. 1890, p. 143, Fisch. Phycom. p. 112 (Etym. demin. ab *Achlya*).

1. **Achlyella Flahaultii** Lagerh. l. c. t. 2, f. 5-7. 1450  
*Hab.* in polline *Typhae* in Germania.

**HARPOCHYTRIUM** Lagerh. in Hedw. 1890, p. 142, Fisch. Phycom. p. 114. (Etym. *harpe* falx et *Chytrium*, ob sporangia falcata).

2. **Harpochytrium Hyalothecæ** Lagerh. l. c. t. 2, f. 1-4. 1451  
*Hab.* in *Hyalotheca* dissilienti in Suecia.

**ENTOPHLYCTIS** Fischer Phycom. Deutschl. 1892, p. 114 (Etym. *entos* intus et *phlyctis* bulla).

1. **Entophlyctis bulligera** (Zopf) Fisch. Phycom. p. 116, *Rhizidium* 1452  
 Zopf Nov. Act. Leop. 1884, p. 195.  
*Hab.* in cellulis vegetativis et copulantibus *Spirogyræ crassæ* in Germania.
2. **Entophlyctis Vaucheriæ** (Fisch.) Fischer Phycom. p. 117. 1453  
*Hab.* in *Vaucheria* in Germania.

**RHIZOPHLYCTIS** Fischer Phycom. 1892, p. 119 (Etym. *rhiza* radix et *phlyctis* bulla, pustula),

1. **Rhizophlyctis rosea** (De Bary et Woron.) Fisch. Phycom. p. 122, 1454  
*Chytridium* De Bary et Woron.  
*Hab.* ad terram, quam rubrificat, ollarum in hortis Germaniæ et ad sporas *Equiseti* in Gallia.
2. **Rhizophlyctis Tolypotrichis** Zuk. Mycol. Mittheil. p. 20, t. XII, 1455  
 f. 13.  
*Hab.* in *Tolypotriche lanata*, Vindobonæ Austriæ.
3. **Rhizophlyctis Braunii** (Zopf) Fisch. Phycom. pag. 120, *Rhizidium* 1456  
 Zopf Nova Act. Leopold. 1888, p. 349.  
*Hab.* inter Bacillariaceas in Germania.
4. **Rhizophlyctis vorax** (Strasb.) Fisch. Phycom. p. 229. *Chytridium* 1457  
*vorax* Strasburger Wirk. des Lichtes 1878, p. 13.  
*Hab.* ad *Chlamydoccum pluviale* in Germania.

**CHYTRIDIUM** A. Braun — Syll. VII, p. 304, IX, p. 358. 1458

1. **Chytridium Lagenaria** Schenk in Verh. med. phys. Ges. Winzb. 1858, Contr. Zell. f. 11-15, Fischer Phycom. p. 128.

*Hab.* in *Nitella flexili* in Germania, ad *Vaucheriam* in Gallia.

2. **Chytridium Mesocarpi** Fisch in Sitzungsber. phys. med. soc. Erl. 1884, 1459  
Fischer Phycom. p. 156.

*Hab.* in *Mesocarpo e Conjugatis* in Germania et Gallia.

**CLADOCHYTRIUM** Now. — Syll. VII, p. 295.

1. **Cladochytrium Kriegerianum** (Magn.) Fisch. Phyc. 138. 1460

*Hab.* in omnibus partibus *Cari Carvi* in Germania.

2. **Cladochytrium Iridis** De Bary Morph. Pilz. p. 149, Fisch. Phyc. 139. 1561

*Hab.* in foliis *Iridis Pseudo-acori* in Germania.

3. **Cladochytrium Graminis** Büsgen in Fisch. Phyc. 139. 1462

*Hab.* in radicibus graminum in Germania

4. **Cladochytrium Flammulæ** Büsg. in Cohn Beitr. Biol. 1887. p. 269, 1463  
fig. 21-22 et Centralb. 1887, IV, p. 98, Fisch. Phyc. p. 138.

*Hab.* in foliis *Ranunculi Flammulæ* in Germania.

5. **Cladochytrium Sparganii-ramosi** Büsg. l. c. Fisch. Phyc. p. 139. 1464

*Hab.* in *Sparganio ramoso* in Germania.

6. **Cladochytrium polystomum** Zopf Nov. Act. Leop. 1883, pag. 234, 1465  
Fisch. Phyc. 135.

*Hab.* in epidermide *Trianeæ bogotensis* cultæ, in Germania.

7. **Cladochytrium Butomi** Büsgen in Fisch. Phyc. 136. *Physoderma* 1466  
*Butomi* Schroet, an Karst. — Syll. IX, p. 363.

*Hab.* in foliis *Butomi umbellati* in Germania.

**PHYSODERMA** Wallr. — Syll. VII, p. 317, IX, p. 363.

1. **Physoderma Hippuridis** Rostr. Till. Grönl. Svamp. p. 631. 1467

*Hab.* in foliis et caulibus *Hippuridis vulgaris* in Groenlandia.

2. **Physoderma Allii** Krieger in All. et Schnabl. Fung. Bav. n. 202. 1468

*Hab.* in foliis *Allii*, in Germania.

**MASTIGOCHYTRIUM** Lag. Hedw. 1892, pag. 185-188 (Etym. *masticæ* flagellum et *chytra* olla). — Zoosporangia extramatrix, sessilia, unicellularia, basi filamentis mycelicis, radiciformibus, ramosis, matrice immersis et pilis validis, lateralibus instructa. Zoosporæ per ostiola expulsæ. Sporangia perdurantia?

1. **Mastigochytrium Saccardiæ** Lag. l. c. p. 188, t. XVIII. 1469  
*Hab.* in peritheciis Saccardiæ Durantæ pr. Quito Æquator-  
 riæ. — Zoosporangia globosa 16-38  $\mu$ . diam., levia, hyalina, pa-  
 pillata, pilis 1-7, ostioliis 1-4 circularibus 4  $\mu$ . diam.

**RHODOCHYTRIUM** Lag. Bot. Zeit. 1893, p. 42-52, t. I (Etym. *rhodon*  
 rosa, ruber et *chytra* olla). — Inter Chytridiaceas et Protococca-  
 ceas ambiguum genus.

1. **Rhodochytrium Spilanthi** Lag. l. c. p. 44. 1470  
*Hab.* in Spilanthe quadam in Æquatoriæ pluribus locis.

**NEPHROMYCES** Giard. in Fisch. Phyc. p. 145 (*nephros* renes et *my-*  
*ces* ob habitatione in renibus).

1. **Nephromyces Molgularum** Giard. in Fisch. l. c. p. 146. 1471  
*Hab.* in renibus Molgulæ socialis in Gallia.  
 2. **Nephromyces Sorokini** Giard. in Fisch. l. c. 146. 1472  
*Hab.* in renibus Lithonephyræ eugyrandæ in Gallia.  
 3. **Nephromyces Roscovitanus** Giard. in Fisch. l. c. 146. 1473  
*Hab.* in renibus Anurellæ Roscovitanæ in Gallia.

*Fam.* 5. Protomycetaceæ De Bary.

**PROTOMYCES** Ung. — Syll. VII, p. 319, IX, p. 363.

1. **Protomyces microsporus** Passer. F. nov. ser. V, n. 1. — Acer. 1474  
 vulis parvulis in macula albo-exarida aggregatis; sporis fuligineis,  
 levibus, subglobosis, 5-7  $\mu$ . diametro.  
*Hab.* in foliis Jasmini Sambac, Parma Ital. bor.  
 2. **Protomyces andinus** Pat. Bull. Soc. Myc. 1892, p. 124. 1475  
*Hab.* in caulibus Bidentis andicolæ et Jægeriæ, Quito  
 et in valle Chillo Æquatoriæ. — Sporæ maximæ 45-75  $\mu$ . diam.,  
 membrana 12-15  $\mu$ . diam. hyalino.  
 3. **Protomyces purpureo-tingens** Masee Brit. Fungi 1891, pag. 164, 1476  
 f. 72-73.  
*Hab.* in cotyledonibus foliisque juvenilibus quæ rubro-maculan-  
 tur Helianthi et Smilacinæ in Britannia. — Sporæ 25-28  $\mu$ .  
 diam., episporio læte brunneo; bistratoso, minute verrucoso.

## PYRENOMYCETEÆ FR. emend.

Syll. I, p. 1, IX, p. 364 \*).

Fam. 1. Perisporiaceæ Fr.

Subfam. 1. Erysipheæ LÉV.

**UNCINULA** Lév. — Syll. I, p. 6, IX, p. 366.

1. *Uncinula columbiana* Selb. The Ohio Erysipheæ p. 9. — **Amphi- 1477**  
gena; mycelio modice copioso, cæspitoso, arachnoideo; peritheciis  
magnis, sæpius pallide coloratis, sparsis, depressis, 130-180  $\mu$ . lat.,  
65-90  $\mu$ . alt., cellulis contextus 10-15  $\mu$ . lat.; appendicibus nu-  
merosissimis (50-70 v. ultra), sursum uncinatis, hyalinis, 130-185  
 $\mu$ . long., levibus, raro apice inflatis; ascis paucis (4-6 v. ultra)  
late ovoideis, pedicellatis, 50-70 = 35-45, plerumque 5-sporis; spo-  
ridiis ellipsoideis, circ. 25  $\times$  12.

*Hab.* in foliis *Uncinulæ Columbianæ*, Columbus Amer.  
bor. — *U. circinatæ* affinis.

**MICROSPHÆRA** Lév. — Syll. I, p. 10, et IX, p. 368.

1. *Microsphæra Guarinoni* Br. et Cav. Fung. parass. n. 172. — **My- 1478**  
celio hypophyllo, arachnoideo, effuso, persistenti; peritheciis glo-  
boso-depressis, sparsis; appendicibus 8-10 gracilibus, hyalinis, peri-  
thecio octuplo longioribus sursum terque quaterque dichotomis, ra-  
mulis patentibus, extremis recurvis, ascis 8-10, ellipticis v. obovatis  
apice obtusis, octosporis, breviter pedicellatis; sporidiis cylindræis  
v. ellipsoideis utrinque rotundatis hyalinis 24-12-14.

*Hab.* in foliis *Cytisi Laburni*, Varallo Ital. bor. (GUARINONI).

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\*) Quod ad *Pyrenomyceteas* et *Sphærospideas* attinet, cfr. Grevillea XX, p. 82-84 et Starbäck Studier i Elias Fries Svampherbarium. Stokh. 1894, ubi plurimæ species vetustæ, præsertim Friesianæ et Schweinitzianæ jam imperfecte cognitæ, ad ipsa exemplaria originalia subtiliore analysi perscrutantur et ad genera recentiora, quantum fieri potest, ducuntur. Hic tantum formas addendas v. funditus reformandas referre putavi.

— Affinis *M. divaricatæ* et *M. Evonymi* sed appendices multo longiores et numerus sporidiorum in quoque asco diversus.

2. **Microsphæra calocladophora** Atkinson Erys. from Carol., p. 13, 1479 cum fig. *M. densissima* Ell. et Mart. Journ. Myc. I, p. 101, nec Schw.

*Hab.* in foliis *Quercus aquaticæ* Columbia. — Perithecia 100-140  $\mu$ . diam.; asci 65-80 = 35-40; sporidia 20-25  $\mu$ . long. sena-octona in quoque asco.

3. **Microsphæra Umbilici** W. Kom. in Jaczews. Fungi Rossiaë exs. 1480 I, n. 15.

*Hab.* in foliis *Umbilici* in Rossia.

**ERYSIPHE** Hedw. — Syll. I, p. 15, IX, p. 370.

1. **Erysiphe lichenoides** Trab. et Sacc. sp. nova. — Caulicola mycelio denso lichenoideo persistenti candido, peritheciis globoso-depressis sparsis, appendiculis copiosissimis ramosis hyalinis mycelio intermixtis; ascis ellipsoideis, 36-38 = 15. in quoque perithecio 20, bisporis; sporidiis ovoideo-ellipsoideis 36-38 = 15, hyalinis granulosis. 1481

*Hab.* in caulibus vivis *Fœniculi vulgaris*, quos obducit, pr. *Medea* Algeriaë. — Affinis *E. tauricæ*, a qua mycelio denso lichenoideo, appendiculis copiosissimis recedit.

**SACCARDIA** Cooke. — Syll. I, p. 24, IX, p. 371.

1. **Saccardia Tunæ** (Spreng.) Starb. Stud. Fries' Svampherb. p. 1, 1482 fig. 1 a-f. *Sphæria Tunæ* Spr. Syll. II, p. 422, *Diplatheca* Starb. Sphær. imperf. cognitæ p. 30. — Perithecia 150-200  $\mu$ . d.; asci 50-60 = 30-40; sporidia 3-septato-muriformia, chlorino-luteola, 30-32 = 10-12.

2. **Saccardia Durantæ** Pat. Bull. Soc. Myc. 1891, p. 173; t. XII, f. II. 1483

*Hab.* in pag. inf. foliorum *Durantæ* pr. Quito Æquatoriaë. — Perithecia 190 = 90; asci 20-25  $\mu$  diam.; sporidia hyalina, triseptato-muriformia, 12-14 = 4-5.

3. **Saccardia atro-viridula** Rehm, Hedw. 1892, p. 312. 1484

*Hab.* ad folia *Baccharidis oblongifoliæ* pr. Quito Æquatoriaë (LAGERHEIM). — Perithecia 50-150  $\mu$ . diam.; asci 30-36  $\mu$ . diam.; sporidia 18 = 7-8, hyalina, 3-septato-muriformia.

*Suofam.* 2. **Perisporiæ** SACC.

**EUROTIUM** Link. — Syll. I, p. 25, IX, p. 271.

1. **Eurotium echinulatum** Delacr. Bull. Soc. Myc. 1893, p. 266, t. XIV, 1485  
fig. 3.

*Hab.* in gelatina saccharata in Laboratorio, Parisiis Galliæ. — Perithecia 140  $\mu$ . diam. sulphurea. Asci 15-20  $\mu$ . diam.; sporidia 11  $\mu$ . diam., 7  $\mu$ . crass.

**SAMAROSPORA** Rostr. in Beiheft. Bot. Centr. 1893, p. 3 (Etym. *samara* et *spora*). — Perithecia subsuperficialia, membranacea, majuscula, atro-brunnea, astoma; asci globosi octospori; sporidia cylindræa, hyalina, continua, appendice inæquali membranacea, samariformi aucta.

1. **Samarospora Potamogetonis** Rost. l. c. 1486

*Hab.* in foliis Potamogetonis natantis in Dania. — Contextus perithecii olivaceo-brunneus; asci 20  $\mu$ . diam.; sporidia 12-14  $\approx$  5, bi-quadriguttata, alato-appendiculata.

**CHÆTOTHECA** Zuk. in Berichte d. deutsch. bot. Gesell. 1890, p. 296 (Etym. *chæte* seta et *thece* pro perithecio). — Perithecia hemisphærica, depressa, membranaceo-rigidula, fere carbonacea, astoma, setis longis rigidulis cuspidatis nigricantibus conspersa; asci globoso-piriformes, octospori, hyphis brevibus ramosis suffulti; sporidia conglobata, lentiformia, levia, diaphane nigricantia.

1. **Chætotheca fragilis** Zuk. l. c. t. XVII, f. 11-13. — Peritheciis 1487  
generis 0,3-0,5 mm. lât., dimidium altis, nigris, fragilibus, setis vix septatis, simplicibus, acutis perithecio longioribus, nigricantibus, apice subhyalinis vestitis; ascis late piriformibus, breve stipitatis, 12-13  $\approx$  11-13. fugacibus; sporidiis 5,5  $\approx$  4 ex hyalino, nigricantibus.

*Hab.* in bilis concretione uda, sub campana vitrea culta, Wien Austriæ.

**ASTERULA** Sacc. — Syll. I, p. 47, IX, p. 375.

1. **Asterula Tracyi** Peck 47 Rep. p. 26. 1488

*Hab.* in foliis vivis languidisve Spermacoces parvifloræ, Biloxi Mi-sis. Amer. bor. (TRACY). — Perithecia 110  $\mu$ . diam.; asci 30-35  $\approx$  8-10; sporidia 7-10  $\approx$  3-4, bi-quattuor-nucleata, hyalina.

**ASTERINA** Lév. — Syll. I, p. 39, et IX, p. 379. Cfr. quoad affinitates generis, notam loco mox cit.

1. **Asterina radians** Ell. Descrip. new spec. in Journ. of Mycol. 1893, 1489 p. 276.

*Hab.* in foliis vivis Capparidis cynophallophoræ, Florida Amer. bor. — Perithecia hemisphærica 0,2 mm. diam.; asci 35 = 20; sporidia 12-15 = 5-5,5, 1-septata, flavida dein brunnea.

2. **Asterina Tacsoniæ** Pat. Bull. Soc. Myc. 1893, p. 147. 1490

*Hab.* in foliis Tacsoniæ, Pululahua Æquatorix (LAGERHEIM). — Perithecia dimidiato-scutata 200-300  $\mu$ . lat.; asci 30 = 25; sporidia 22 = 9, 1-septata, brunnea.

3. **Asterina Winteriana** Pазschke Hedw. 1892, p. 104. 1491

*Hab.* in foliis Rolliniæ in Brasilia (ULE). — Perithecia 225-300  $\mu$ . diam. depressa; asci 60-70 = 43-45; sporidia 27-32 = 14-16, 1-septata, fusca.

4. **Asterina brasiliensis** Wint. in Hedw. 1892, p. 101. 1492

*Hab.* ad folia Calliandræ, in Brasilia (ULE). — Perithecia scutiformia, 200-250  $\mu$ . diam.; asci 80-100 = 20-23; sporidia 21-24 = 10-11, 1-septata.

5. **Asterina hoveæfolia** Cooke et Mass. in Grev. V, 22, p. 36. 1493

*Hab.* in foliis Hoveæ longifoliæ, Queensland Australiæ (BAILEY). — Perithecia scutellata, circinata; asci piriformes; sporidia 16 = 7 1-septata brunnea.

6. **Asterina sphærelloides** Speg. Fl. Guar. nonn. n. 123. 1494

*Hab.* ad folia coriacea Ilicis? pr. Luque, Brasilia. — Perithecia hemisphærico-prominula 120-130  $\mu$ . diam.; asci 30-35 = 15; sporidia 20-24 = 10-12, 1-septata, fuliginea.

7. **Asterina crustosa** B. et Cooke Grev. XXI, p. 76. 1495

*Hab.* in foliis Eugeniæ, Ceylon (THWAITES). — Perithecia applanata; asci saccati 8-spori; sporidia 35 = 12-14, 1-septata, fusca.

8. **Asterina Uleana** Pазschke Hedw. 1892, p. 104. 1496

*Hab.* in foliis Myrtacearum in Brasilia (ULE). — Perithecia discoidea 400-450  $\mu$ . diam.; asci 85-90 = 35-38; sporidia 35-38 = 14-16, 1-septata, fusca.

9. **Asterina multilobata** Wint. Hedw. 1887, p. 25. 1497

*Hab.* in foliis vivis Malpighiaceæ, in Brasilia (ULE). — Perithecia depressa 100-160  $\mu$ . diam.; asci 37-48  $\mu$ . diam.; sporidia 25-28 = 12,5 1-septata, fusca, aculeolata.

10. **Asterina irradians** Pat. Bull. Soc. Myc. 1891, p. 172. 1498

*Hab.* in pag. sup. foliorum Compositæ cujusdam pr. Quito,



- Æquatoriæ (LAGERHEIM). — Perithecia globosa 130-200  $\mu$ . diam. poro pertusa; asci 50-60 = 15-18; sporidia 16-18 = 6-7, chlorino-fuliginea.
11. **Asterina Leemingii** E. et E. New sp. north Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 128. 1499  
*Hab.* in foliis vivis Galacis aphyllæ, Marion Va. Amer. bor. (HELENA LEEING). — Perithecia depresso-globosa, 150  $\mu$ . diam. papillata; asci 35-40 = 20-24; sporidia 18-22 = 5-6, 1-septata e flavido hyalina. An *Asterella*?
12. **Asterina Gaultheriæ** Curtis, Ellis Am. Pyr. p. 42. 1500  
*Hab.* in foliis vivis Gaultheriæ procumbentis, Amer. bor. — Perithecia 170-250  $\mu$ . diam.; asci 22-25 = 13-16; sporidia 1-septata, hyalina, 9 = 3.
13. **Asterina crotonicola** Pat. Bull. Soc. Myc. 1892, p. 127. 1501  
*Hab.* in foliis vivis Crotonis pr. Banos Æquatoriæ. — Perithecia applanata, 130-160  $\mu$ . diam.; asci globosi, 8-spori; sporidia 32 = 15 1-septata, brunnea.
14. **Asterina Palmarum** (Kunze) Gaill. Le genre Mel. p. 116, t. XXIV, fig. 1; *Myxothecium* K. et Fr., Syll. I, p. 71. 1502  
*Hab.* in utraque pag. Palmæ cujusdam, Surinam (WEIGELT). — Perithecia globulosa, astoma; asci 130 = 60, octospori; sporidia 1-septata, constricta, fuliginea, 65-75 = 20-22.
15. **Asterina laxa** Wint. in Hedw. 1892, p. 102. 1503  
*Hab.* ad folia fruticis ignoti in Brasilia (ULE). — Perithecia depresso-hemisphærica, 80-120  $\mu$ . diam.; asci 43-48 = 23-30; sporidia 22-23 = 9-10, 1-septata, fuscidula.
16. **Asterina stricta** Wint. in Hedw. 1892, p. 103. 1504  
*Hab.* ad folia fruticis ignoti in Brasilia (ULE). — Perithecia discoidea 225-300  $\mu$ . diam.; asci 60-70  $\mu$ . diam.; sporidia 38 = 22 1-septata, fusca.
17. **Asterina paraphysata** Wint. Hedw. 1892, p. 103. 1505  
*Hab.* ad folia fruticis ignoti in Brasilia (ULE). — Perithecia applanata 250-300  $\mu$ . diam.; asci 75 = 50; sporidia 36 = 13, 1-septata, fusca.

**ASTERELLA** Sacc. — Syll. I, p. 42, et IX, p. 393.

1. **Asterella flexuosa** Wint. Hedw. 1892, p. 101 (*Asterina*). 1506  
*Hab.* ad folia Calliandræ in Brasilia (ULE). — Perithecia hemisphærica 230-300  $\mu$ . diam.; asci 24-27 = 14-16; sporidia 11-14 = 3,5 1-septata, hyalina.
2. **Asterella Conyzæ** Pat. Bull. Soc. Myc. 1892, p. 127. 1507

*Hab.* in pag. sup. foliorum Conyzæ, Milegalli Æquatoriæ. — Perithecia globoso-collapsa 115-150  $\mu$ . diam.; asci 35-40 = 6-8; sporidia 8-10 = 3-4, 1-septata, hyalina.

3. **Asterella penicillata** Pat. Rev. Myc. 1891, p. 138 (*Asterina*). 1508

*Hab.* in foliis coriaceis in Brasilia (GLAZIOU). — Perithecia depressa 80-100  $\mu$ . diam.; asci 50 = 12-15; sporidia 34 = 4, 1-septata, hyalina.

4. **Asterella Rehmii** P. Henn. F. Æthiop. I, p. 117, t. V, f. 16. 1509

*Hab.* in foliis vivis Aloes maculatæ et A. abyssinicæ, in colonia Erythræa. — Perithecia punctiformia, elevata; asci 24-36 = 20-32; sporidia 17-22 = 7-10, 1-septata, subhyalina.

5. **Asterella Schweinfurthii** P. Henn. F. Æthiop. I, p. 118. 1510

*Hab.* in foliis vivis Dracænæ Ombetis in colonia Erythræa. — Perith. hemisphærica; asci 23-33 = 20-27; sporidia 10-15 = 5-7 1-septata, hyalina.

6. **Asterella graminicola** E. et E. New spec. North Amer. Fung. in Proceed. Acad. N. Sc. Philad. 1893, p. 128 (*Asterina*). 1511

*Hab.* in foliis subviviis Oryzopsidis asperifoliæ, Lausing Mic. Amer. bor. (HICKS). — Perithecia discoidea 150  $\mu$ . diam.; asci 22-30 = 12-20; sporidia 7-14 = 2,5-3,5 hyalina, 1-septata.

**MARCHALIELLA** Wint. in Bomm. et Rouss. Contr. Myc. Belg. IV, p. 243 (Etym. a cl. mycologo EL. MARCHAL bruxellensi). — Perithecia superficialia, glabra, tandem irregulariter dehiscentia, subiculo obsoleto; asci ovoidei, 8-spori, sporidia didyma, brunnea. Ab affini gen. *Zopfia* peritheciis glabris, sporidiis didymis, exappendiculatis recedit.

1. **Marchaliella zopfielloides** Bomm. et Rouss. l. c. 1512

*Hab.* in assere abietino, diu fimo imbuto in horto bot. Bruxelles Belgii. — Perithecia nigra; asci 25 = 15; sporidia 6-9 = 4,5, constricta, echinulata.

**DIMEROSPORIUM** Fuck. — Syll. I, p. 51, IX, p. 401.

1. **Dimerosporium Passifloræ** Pat. Bull. Soc. Myc. 1892, p. 128. 1513

*Hab.* in pag. sup. foliorum Passifloræ, Milegalli Æquatoriæ (LAGERHEIM). — Perithecia globosa, 150-200  $\mu$ . diam.; asci 60-80 = 10-12; sporidia tereti-ovoidca, 15 = 4-5, uniseptata, chlorino-fuliginea.

2. **Dimerosporium Monninæ** Pat. Bull. Soc. Myc. 1892, p. 128. 1514

*Hab.* in foliis vivis Monninæ pr. Quito Æquatoriæ. — Pe-

- Perithecia globosa 260  $\mu$ . diam.; asci 80-100 = 30-40; sporidia 25 = 12, 1-septato, flavo-brunnea.
3. **Dimerosporium Urbanianum** P. Henn. Hedw. 1894, p. 231. 1515  
*Hab.* in foliis Cedrelæ odoratæ(?) Portorico (SINTENIS). — Perithecia atro-sanguinea, globosa, 180-250  $\mu$ . diam.; asci 90-150 30-50, octospori; sporidia 1-septata, flava, 35-45 = 11-14.
4. **Dimerosporium samoëense** P. Henn. Hedw. 1894, p. 232. 1516  
*Hab.* in foliis vivis Menispermaceæ cujusdam, Samoa (WEBER). — Perithecia subglobosa, 60-70  $\mu$ . diam.; asci 24-30 = 21-26, octospori; sporidia ovoidea, 1-septata, 10-16 = 6-9.
5. **Dimerosporium Richardi** (Thüm.) Sacc. *Capnodium Richardi* Thüm. 1517  
 Rev. Myc. 1879, p. 10.  
*Hab.* in foliis vivis Sorindejæ madagascariensis in insula Madagascar (M. RICHARD). — Perithecia globosa, carnosula, fusca; asci octospori, elliptici, 20 = 10; sporidia 6-9 = 4, uniseptata, fusca.
6. **Dimerosporium illicinum** Cooke Grev. XXI, p. 76. 1518  
*Hab.* in foliis Ilicis myrtifolii in Amer. boreali (RAVENEL). — Perithecia semiglobosa 80-120  $\mu$ . diam.; asci piriformes; sporidia 18 = 9, 1-septata, hyalina (immatura).
7. **Dimerosporium parvulum** Cooke Grev. XX, pag. 5. — Peritheciis 1519  
 minutis, subglobosis, membranaceis, mycelio radioso, brunneo, maculis inæqualibus nigris insidenti; ascis globosis, basi apiculatis; sporidiis ellipticis, uniseptatis, constrictis, hyalinis 11-20 = 8 (an tandem coloratis?),  
*Hab.* in foliis vivis Tremæ asperæ, Zandina Australiæ (BAILEY).
8. **Dimerosporium Barnadesiæ** Pat. Bull. Soc. Myc. 1893, p. 148. 1520  
*Hab.* in foliis Barnadesiæ spinosæ, Pululahua Æquatoriæ (LAGERHEIM). — Perithecia globosa, 100  $\mu$ . diam.; asci globosi, 8-spori; sporidia 32 = 15, constricto-1-septata, fuliginea.
9. **Dimerosporium spectabile** Pat. Bull. Soc. Myc. 1893, p. 148. 1521  
*Hab.* in pag. sup. foliorum Baccharidis oblongifoliæ, Rio Machangara Æquatoriæ. — Perithecia globosa, 150  $\mu$ . diam.; asci 50 = 40; sporidia 22-25 = 10-12, 1-septata, pallide fuliginea.
10. **Dimerosporium moniliferum** Pat. Bull. Soc. Myc. 1892, pag. 128, 1522  
 t. XII, fig. 1.  
*Hab.* in foliis vivis Gynoxidis laurifoliæ, Pichincha Æquatoriæ. — Perithecia 150  $\mu$ . diam., globosa; asci 70 = 20; sporidia 20 = 10-11, didyma, fuliginea.

11. **Dimerosporium Galactis** E. et E. New Fung.. Proceed. Acad. N. 1523  
S. Philad. p. 441.

*Hab* in foliis vivis Galactis aphyllæ, Marion Va. Amer. bor. — Perithecia ovoidea, 65-80  $\mu$ . diam.; asci 30-40 = 7-8; sporidia 10-12 = 3-3,5, flavida, 1-septata.

12. **Dimerosporium Labiatarum** Pat. Bull. Boiss. 1895, p. 66. 1524

*Hab.* in pag. sup. foliorum Bistropogonis et aliarum Labiatarum, San Jorge et Pullulahua Æquatoriae. — Plagæ mycellea atræ 1-2 mm. diam., perithecia globosa 150-180  $\mu$ . diam.; asci 50 = 12-15; sporidia 12-13 = 3-4, constricto 1-septata, fuliginea.

13. **Dimerosporium superbum** Speg. Fl. Guar. nonn. p. 31, n. 84. 1525

*Hab.* in foliis vivis Crotonis? Caa-guazú Brasiliæ. — Perithecia globoso-hemisphærica 150-200  $\mu$ . diam.; asci 70-80 = 12-14; sporidia 16-18 = 7-10, ex hyalino chlorina, 1-septata (an tandem 3-septata olivacea?).

14. **Dimerosporium Acokantheræ** P. Henn. F. Æthiop. 1, p. 117. 1526

*Hab.* in foliis vivis Acokantheræ Schimperii pr. Saganeiticol, Erythrææ. — Perithecia globoso-pulvinata; asci 80 = 36-48; sporidia 20-32 = 40-14, hyalino-flavescentia.

15. **Dimerosporium echinatum** E. et E. New Californ. Fung. in Ery- 1527  
thea p. 145.

*Hab:* in foliis vivis Quercus chrysolepidis in California. Perithecia ovoidea, 200-300  $\mu$ . diam.; asci 50-55 = 15; sporidia 12-15 = 6-7, 1-septata, flavida.

15. **Dimerosporium Gilgianum** P. Henn. Hedw. 1894, p. 232. 1528

*Hab.* in pag. inf. foliorum Retinodendri laurifolii, Birma (GRIFFITH, comm. Doct. GILG). — Perithecia subhemisphærica v. oblonga; asci 60-80 = 40-50; sporidia oblonga 1-septata, flavo-brunnea, 40-55 = 24-32.

16. **Dimerosporium aterrimum** Cooke et Wint. Grev. XX, p. 83. — 1529

Epiphyllum; maculis orbicularibus gregariis, aterrimis, velutinis, 5 mm. diam., filis flexuosis, plerumque simplicibus, opacis; peritheciis subglobosis vel irregularibus, astomis; ascis ovoideis; sporidiis arcte ellipsoideis (immaturis).

*Hab.* in foliis coriaceis, Manipur Indiæ (WATT).

17. **Dimerosporium secedens** Sacc. Hedw. 1893, p. 57, t. VI, f. 2. — 1530

Late effusum, pelliculosum, atro-piceum, facile secedens, capnodicioides; peritheciis dense gregariis, globosis, astomis, distincte laxe parenchymaticis, glabris, atro-nitidulis, 100  $\mu$ . diam.; hyphis filiformibus intertextis, irregulariter denticulato-ramulosis, subconti-

nuis, connexis, ramulis hypharum hinc inde crasse vesiculoso-inflatis; ascis obovatis, brevissime stipitatis,  $45 \approx 25-28$ , octosporis, paraphysatis; sporidiis subtristichis ovato-oblongis, constricto-1-septatis, olivaceo-fuliginis, guttulatis,  $20-22 \approx 6-7$ .

*Hab.* in foliis subcoriaceis adhuc vivis plantæ arboreæ cujusdam, Stewart River, Queensland (S. JOHNSON). — A *Dim. Solani* Speg. differt quia late et inæqualiter effusum, secedens etc.

18. **Dimerosporium? ovoideum** Speg. Fl. Guar. nonn. p. 32, n. 82.

*Hab.* ad folia Graminaceæ cujusdam, Caa-guazú Brasiliæ — Perithecia ovato-sublageniformia  $100-150 \mu$ . alta,  $50-120 \mu$ . cr.; asci  $50-60 \approx 16-20$ ; sporidia  $20-26 \approx 7-8$ , ex hyalino chlorina, 1-septata.

19. **Dimerosporium minutum** Pat. Bull. Boiss. 1895, p. 66.

*Hab.* parasitice in *Microthyrio* reptante, Milegalli Æquatoris. — Perithecia globulosa,  $130 \mu$ . diam. basi filamentosa; asci  $33-40 \approx 7$ ; sporidia  $10 \approx 3$ , brunnea, 1-septata.

**PARODIELLA** Speg. — Syll. I, p. 717, IX, p. 409.

1. **Parodiella Schimperi** P. Henn. F. Æthiop. I, p. 119.

*Hab.* in foliis vivis *Rhinchosiæ* elegantis et *Vignæ* pr. Gheleb col. Erythrææ. — Perithecia subhemisphærica  $100-180 \mu$ . diam.; asci  $25-33 \approx 18-25$ ; 4-8-spori; sporidia  $8-11 \approx 4-5$ , 1-septata, hyalino-flavidula.

2. **Parodiella Pseudopeziza** Pat. Bull. Boiss. 1895, p. 67.

*Hab.* in foliis *Vacciniæ* cujusdam, San Jorge Æquatoris. — Perithecia hypophylla, tereti-turbinata, infra attenuata, apice depressa,  $200-200 \mu$ . alt., parvæ pilosa; asci 4-spori,  $80-100 \approx 8-10$ ; sporidia  $16-18 \approx 6$ , inæqualiter 1-septata, brunnea.

**PERISPORIUM** Fr. — Syll. I, p. 55, IX, p. 412.

1. **Perisporium vulgare** Corda — Syll. I, p. 55. — var. **Scirpi** Karst, Symb. Fenn. XXX, p. 74.

*Hab.* in calamis *Scirpi* lacustris in Fennia. — Perithecia  $0,3 \text{ mm.}$  diam.; asci  $125-140 \approx 18-19$ ; sporidia  $36-43 \approx 7-9$ ,

**MELIOLA** Fr. em. — Syll. I, p. 60, IX, p. 413 \*).

\*) Conferenda absoluta et perspicua generis monographia (*Le genre Meliola*, Paris 1892 et *Suppl.* in *Bull. Soc. Myc.* 1892, p. 176) a cl. A. GAILLARD elaborata et claris iconibus exornata. Ejusdem dispositionem hic sequutus sum.

## I. Asci ovoidei v. globulosi.

## A. Sporidia 2-septata.

(Meliola clavispora).

## B. Sporidia 3-septata.

(Meliola manca, Andromedæ, ganglifera, Niessleana, nidulans, lanosa, Wainioi, cladotricha, formosa, argentinc, octospora, triseptata, pulveracea et sequentes).

1. *Meliola Ilicis* Henn. Fung. bras. II, p. 523. 1536*Hab.* in foliis vivis Ilicis chamædrifoliæ in Brasilia (RE-  
). — Perithecia subglobosa, 150-200  $\mu$ . diam.; asci 60-70  $\approx$   
bi-trispori; sporidia 3-septata, flavescenti-atra.2. *Meliola Guignardi* Gaill. Bull. Soc. Myc. 1892, p. 176, t. XVI, f. 1. 1537*Hab.* in pag. sup. foliorum coriaceorum arboris ignotæ, Canzacoto  
toriciæ (LAGERHEIM). — Perithecia globosa, collabentia 460  $\mu$ .  
asci ovoidei 2-4-spori; sporidia 3-septata, fuliginea, 62-663. *Meliola Boni* Gaill. Gen. Mel. p. 39, tab. II, fig. 5 et VIII, fig. 3. 1538*Hab.* in pagina superiore foliorum ignotorum, Tonkin (BON).  
Perithecia globulosa 180-200  $\mu$ . diam.; asci ellipsoidei, bispori;  
sporidia 3-septata, fusca, 51-54  $\approx$  20-22.4. *Meliola insignis* Gaill. Gen. Mel. p. 44, tab. VI, f. 1 et IX, f. 2. 1539*Hab.* in pag. sup. foliorum quorundam, Sumatra (FORBES). —  
Perithecia globosa, 150-200  $\mu$ . diam.; asci evanidi; sporidia 3-se-  
ptata, fusca, 34-35  $\approx$  14-15.

## C. Sporidia 4-septata.

Setæ nullæ.

(Meliola mentosa, obesa, levis, Wrightii, cryptocarpa, glabra, Winte-  
rii, tonkinensis, anastomosans, ampullifera, arachnoidea, subcrustacea, me-  
galospora, crustacea, plebeja, Melastomacearum, conglomerata, calva, tri-  
loba, sororecula et sequentes).5. *Meliola Hendeloti* Gaill. Gen. Mel. p. 49, tab. X, f. 2. 1540*Hab.* ad folia Memecili cujusdam, Senegambia (HENDELOT).  
— Perithecia globosa 150-200  $\mu$ . diam.; asci subglobosi bispori;  
sporidia 4-septata, fusca, 46-50  $\approx$  20-22.6. *Meliola Rhois* P. Henn. Fung. bras. II, p. 523. 1541*Hab.* in foliis Rhois in Brasilia (SELLOW). — Perithecia sub-  
globosa-applanata; asci ellipsoidei 2-4-spori 50-60  $\approx$  20-28; sporidia  
4-septata, fusco-brunnea, 35-46  $\approx$  15-18.

7. **Meliola Lagerheimii** Gaill. in Hedw. 1891, p. 261. 1542

*Hab.* in pag. sup. foliorum vivorum Ilicis scopulorum pr. Quito Æquatoriæ. — Perithecia globoso-cupulata 250-360  $\mu$ . diam.; asci 80  $\approx$  30, longe stipitati, bispori; sporidia 4-septata, 60-62  $\approx$  17-29, fuliginea.

8. **Meliola obesula** Speg. Fl. Guar. nonn. p. 27, n. 75. 1543

*Hab.* in foliis vivis Rutaceæ, Caa-guazú Brasiliæ. — Perithecia globosa, 180-250  $\mu$ . diam.; asci 40-50  $\approx$  30-35; sporidia 4-septata, 40-42  $\approx$  20-22, compressa, fuliginea. *M. obesæ* peraffinis.

9. **Meliola penicilliformis** Gaill. Gen. Mel. p. 57, tab. VI, f. 2 et X, fig. 6. 1544

*Hab.* in utraque pagina foliorum Psychotriæ, in insula Colares Amazoniæ (POEPPIG). — Perithecia globoso-depressa; asc. ovoidei, bispori; sporidia 4-septata, fusca, 37-40  $\approx$  15-18.

10. **Meliola asterinoides** Wint. — Syll. IX, pag. 423. — var. **major** Gaill. Gen. Mel. p. 58, tab. X, f. 8. 1545

*Hab.* in foliis Rubiaceæ cujusdam, Ogowé (THOLLON). — A typo differt sporidiis majoribus 42-46  $\approx$  20-22, magisque constrictis.

11. **Meliola echinata** Gaill. Gen. Mel. p. 61, tab. X, f. 10.

*Hab.* in pag. inf. foliorum quorundam, Sumatra (FORBES). — Perithecia globulosa 150-200  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata fuscidula 50-52  $\approx$  12-20.

12. **Meliola longipoda** Gaill. Bull. Soc. Myc. 1892, p. 178, t. XIX, fig. 2. 1547

*Hab.* in utraque pag. foliorum Tournefortiæ, Banos Æquatoriæ (LAGERHEIM). — Perithecia collabentia, 200-250  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fusca, 41-51  $\approx$  20-22.

13. **Meliola obducens** Gaill. Bull. Soc. Myc. 1892, p. 179, tab. XIV, fig. 3. 1548

*Hab.* in pag. sup. foliorum Buddleiæ pr. Banos Æquatoriæ. (LAGERHEIM). — Perithecia globosa, 300-350  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, 45-50  $\approx$  18-20, dilute fuliginea.

14. **Meliola inermis** Kalchbr. — Syll. I, pag. 64. — var. **macilenta** Wint., Gaill. Gen. Mel. p. 64. 1549

*Hab.* in pag. sup. foliorum quorundam in ins. S. Thomæ (MORLER). — A typo differt peritheciis minoribus; sporidiis (4-septatis) 33-35  $\approx$  14.

15. **Meliola Rimbachii** Pat. Bull. Boiss. 1895, p. 66. 1550

*Hab.* in foliis indeterminatis, Gualaquiza Æquatoriæ (RIMBACH). — Perithecia globosa 200-250  $\mu$ . diam., basi setulosa; sporidia 40-

45 = 16-18, constricto-4-septata, brunnea. — Affinis *M. inermi* et *M. sororculæ*.

b. Setæ peritheciales.

(*Meliola aciculosa, Molleriana, coronata* et sequentes).

16. *Meliola tortuosa* Wint. in Gaill. Gen. Mel. p. 67, tab. XXI, f. 2. 1551

*Hab.* in foliis Piperis cujusdam et Dicksoniæ, Santa Catharina et S.-Francisco Brasiliæ (ULE). — Perithecia globosa 160-190  $\mu$ . diam.; asci ovoidei bi-trispori, 62-70 = 22-32; sporidia 4-septata, fusca, 49-54 = 18.

17. *Meliola Martiniana* Gaill. Gen. Mel. p. 68, tab. XXII, f. 2. 1552

*Hab.* in utraque pagina petiolisque foliorum Perseæ palustris, Florida (MARTIN). — Perithecia globosa, collabentia, 300-320  $\mu$ . diam.; asci subglobosi, bispori; sporidia 4-septata, fusca, 66-68 = 20-28.

c. Setæ peritheciales et myceliales.

18. *Meliola Cypæri* Pat., Gaill. Gen. Mel. p. 70, cum icone. 1553

*Hab.* in utraque pag. foliorum Cyperi, Komba, Congo gall. (DYBOWSKI). — Perithecia globosa 110-250  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 4-septata, dilute fuliginea, 42-45 = 12-15. — Ad hanc sect. videtur quoque spectare *M. tenuis* B. et C.

d. Setæ myceliales simplices rectæ.

(*Meliola clavulata microtheca, microspora, amphitricha, corallina, Araliæ, Mitchellæ, Zig-zag, Desmodii, brasiliensis, delicatula, stenospora, Psidii, Spegazziniana, decidua, armata, velutina, spinigera* et sequentes).

19. *Meliola strychnicola* Gaill. Gen. Mel. p. 72, tab. XII, f. 4. 1554

*Hab.* in pag. sup. foliorum Strychni, Osika, Congo (DEBRAZA). — Perithecia globulosa 130-150  $\mu$ . diam.; asci ovoidei bispori; sporidia 4-septata, dilute fuliginea, 37-44 = 12-13.

20. *Meliola laxa* Gaill. Bull. Soc. Myc. 1892, p. 179, t. XIV, f. 4. 1555

*Hab.* in utraque pagina foliorum Myrtaceæ pr. Banos Æquatoris (LAGERHEIM). — Perithecia globosa, 150-170  $\mu$ . diam.; asci bispori; sporidia 4-septata, fuscidula, 40-44 = 14-15.

21. *Meliola parenchymatica* Gaill. Bull. Soc. Myc. 1892, p. 180. 1556

*Hab.* in utraque pag. foliorum Sapindaceæ Sao-Francisco Brasiliæ (ULE). — Perithecia globosa, 250-300  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fusca, 38-42 = 15-16.



22. **Meliola levipoda** Speg. Fl. Guar. nonn. n. 77, p. 28, Gaill. Bull. 1557  
Soc. Mycol. 1892, p. 181, t. XV, f. 1.  
*Hab.* ad folia *Aspidospermæ Quebrachii*, Yaguaron Bra-  
siliæ. — Perithecia globoso-collapsa; asci 3-4-spori; sporidia 4-  
septata, 44-48  $\approx$  16-20, fuliginea.
23. **Meliola Durantæ** Gaill. Bull. Soc. Myc. 1892, p. 181, t. XVI, f. 2. 1558  
*Hab.* in utraque pagina foliorum, ramis fructibusque *Duran-*  
*tæ* pr. Quito *Æquatoris*. — Perithecia globoso-concava, 200-230  
 $\mu$ . diam.; asci ellipsoidei 2-4-spori; sporidia 4-septata, dilute fuli-  
ginea 45-48  $\approx$  15-16.
24. **Meliola Cookeana** Speg. — Syll. I, p. 65. — var. **major** Gaill. 1559  
Gen. Mel. p. 74.  
*Hab.* in foliis *Dodoneæ*, Sao-Francisco Brasilis (ULE). — A  
typo differt sporidiis 52  $\approx$  22, setis apice toruloideis. Ad *Meliolam*  
*amphitricham* Fr. sec. exempl. orig. spectat *Bryocladium macu-*  
*lans* Kunze. seu *Pisomyxa maculans* (Kunze) Sacc. Syll. IX,  
p. 374.
25. **Meliola horrida** Ell. et Ev. in Smith Cent. Amer. Pyrenom. Bull. 1560  
Univ. Iowa 1893, p. 396.  
*Hab.* in foliis *Psidii (Guava)* San Carlos Amer. centr. — Pe-  
rithecia ovoidea, 100  $\mu$ . diam.; asci 60-76  $\approx$  15-20, bispori; spori-  
dia 4-septata, brunnea, 25-34  $\approx$  11-14.
26. **Meliola ambigua** Pat. et Gaill. — Syll. IX, p. 424. — var. **major** 1561  
Pat. et Gaill. Gen. Mel. p. 75, tab. XIII, f. 3.  
*Hab.* in foliis vivis *Evolvuli*, Caracas in Venezuela. — A  
typo differt ascis 55  $\approx$  25 bi-trisporis; sporidiis 45-50  $\approx$  20.
27. **Meliola prætervisa** Gaill. Gen. Mel. p. 78, tab. XIX, f. 1. 1562  
*Hab.* in pag. sup. foliorum *Laurinæ* cujusdam in ins. Java.  
Perithecia globosa dein depressa 200-250  $\mu$ . diam.; asci obovati,  
bispori; sporidia 4-septata, fusca 53-58  $\approx$  24-28.
28. **Meliola malacotricha** Speg. — Syll. IX, p. 425. — var. **longispora** 1563  
Gaill. Gen. Mel. p. 82.  
*Hab.* in pag. sup. foliorum *Crotonis floribundi*, S. Catha-  
rina Brasilis (ULE). — A typo differt mycelio parciore; perithe-  
ciis creberrimis; sporidiis longioribus, 43-47  $\approx$  14-15.
29. **Meliola Montagnei** Pat. in Gaill. Gen. Mel. p. 85, tab. XV, f. 3. 1564  
*Hab.* in utraque pagina foliorum *Salaciæ undulatæ*, in ins.  
Mauritii (DU-PETIT-THOUARS). — Perithecia glaberrima; asci ovoi-  
dei bispori; sporidia 4-septata, fuliginea, 57-62  $\approx$  18-20.
30. **Meliola leptospora** Gaill. Gen. Mel. p. 86, tab. XVI, f. 5. 1565

- Hab* in pag. inf. foliorum quorundam, Congo (THOLLON). — Perithecia globulosa 150-200  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 4-septata, fusco-incarnata, 46-54 = 11-12.
31. **Meliola Thollonis** Gaill. Gen. Mel. p. 88, tab. XV, f. 6. 1566  
*Hab.* in pag. inf. foliorum quorundam, Congo (THOLLON). — Perithecia globosa, 200-250  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fuliginea 68 = 23-24.
32. **Meliola francevilleana** Gaill. Gen. Mel. p. 88, tab. XVI, f. 1. 1567  
*Hab.* in utraque pag. Breweriæ, Franceville Congo (DE BRAZA et THOLLON). — Perithecia globulosa 200-250  $\mu$ . diam.; asci ovoideo-elongati 70-75 = 30-35; sporidia 4-septata, 60-63 = 14-16.
33. **Meliola Uleana** Pазschk, e Gaill. Gen. Mel. p. 90. tab. XXI, f. 3. 1568  
*Hab.* ad folia Eleocharidis, Sao-Francisco Brasilæ (ULE). — Perithecia rugulosa 200-250  $\mu$ . diam.; asci ovoidei bi-quadrifidi; sporidia 4-septata, 42-48 = 16-17, fuliginea.
34. **Meliola effusa** Gaill. Gen. Mel. p. 91, tab. XVI, f. 4. 1569  
*Hab.* in pag. inf. fol. coriaceorum, Paramaribo Surinam (KOR-GEL). — Perithecia globosa 180-200  $\mu$ . diam.; asci ovoidei bispori; sporidia 4-septata, fuliginea, 55-60 = 15-18.
35. **Meliola polytricha** K. et C. — Syll. I, p. 67. — var. **Abyssiniæ** 1570  
P. Henn. F. Æthiop. I, p. 117.  
*Hab.* in foliis vivis Osyridis abyssiniæ pr. Saganeiti col. Erythrææ (SCHWEINFURTH). — Perithecia subglobosa; asci 60-84 = 24-32, bispori; sporidia 4-septata, fusco-brunnea, 40-60 = 17-22.
36. **Meliola jasminicola** P. Henn. Hedw. 1895, p. 11. 1571  
*Hab.* in foliis Jasmini in hortis, Hanoi Tonkin (BALANSA). — Perithecia subglobosa 240-300  $\mu$ . diam.; asci bi-trispori oblongi; sporidia 30-36 = 10-15, constricto-4-septata, atro-brunnea. *M. polytrichæ* affinis,
37. **Meliola irradians** Gaill. Gen. Mel. p. 92, tab. XVI, f. 6. 1572  
*Hab.* in utraque pagina foliorum Mauriæ simplicifoliæ Quillota, Chili (BERTERO). — Perithecia verrucosa 180-200  $\mu$ . diam.; asci ovoideo-elongati, bispori; sporidia 4-septata, opacè fuliginea 47-52 = 17-19.

## e. Setæ mycoliales uncinatæ.

(Meliola orbicularis, Musæ, eriophora, densa et sequentes).

38. **Meliola intermedia** Gaill. Gen. Mel. p. 94, tab. XVII, f. 2. 1573  
*Hab.* in utraque pag. foliorum Apocynacæ et Rubiacæ cujusdam, Congo (THOLLON). — Perithecia globulosa 250-300  $\mu$ .

diam.; asci globoso-ovoidei, bi-quadrifidii; sporidia 4-septata, fuliginosa, 38-42 = 13-17.

39. **Meliola Balansæ** Gaill. Gen. Mel. p. 95, tab. XVII, f. 1. 1574

*Hab.* in fol. coriaceis, Carapegna, Paraguay (BALANSA). — Perithecia globulosa 200-250  $\mu$ . diam.; asci subglobosi, 4-sporei; sporidia 4-septata, fuliginosa, 62-70 = 20-22.

40. **Meliola Pazschkeana** Gaill. Gen. Mel. p. 95, tab. XXI, f. 4. 1575

*Hab.* in fol. Bauhinia in Rio-de-Janeiro, Brasilia (ULE). — Perithecia globosa 150-210  $\mu$ . diam.; asci ovoidei, bi-trifidii; sporidia 4-septata, fuscicula, 43-46 = 14-15.

*f. Setæ myceliales furcatae.*

(*Meliola bicornis, bidentata, furcata, Evodia, tenella, dichotoma, Bambusæ bifida* et sequentes).

41. **Meliola perexigua** Gaill. Gen. Mel. p. 98, tab. XVII, f. 5. 1576

*Hab.* in pag. inf. foliorum coriaceorum, Congo (THOLLON). — Perithecia globulosa 110-130  $\mu$ . diam.; asci ovoidei, bi-quadrifidii; sporidia 4-septata, fuscicula, 30-32 = 8-10.

42. **Meliola denticulata** Wint. in Gaill. Gen. Meliol. p. 98, tab. XXI, fig. 5. 1577

*Hab.* ad folia Centrosema virginiana, Sao-Francisco, Brasilia (ULE). — Perithecia globosa, collabentia, 160-200  $\mu$ . diam.; asci 65-68 = 28, bi-trifidii; sporidia 4-septata, fusca, 41-46 = 16.

43. **Meliola monilispora** Gaill. Gen. Mel. p. 101, tab. XVIII, f. 2. 1578

*Hab.* in pag. infer. foliorum quorundam, Niari, Congo (THOLLON). — Perithecia globulosa 150-200  $\mu$ . diam.; asci ovoidei, bi-sporei; sporidia 4-septata, 55-58 = 15-20, loculis globosis.

44. **Meliola pululahuensis** Gaill. Bull. Soc. Myc. 1892, p. 183, t. XV, fig. 2. 1579

*Hab.* in pag. sup. foliorum Piperis, Pululahu Aequatoriae. — (LAGERHEIM). — Perithecia globulosa 220-250  $\mu$ . diam.; asci ovoidei 2-4-sporei; sporidia 4-septata, fusca, 51-58 = 18-20.

45. **Meliola Sapindacearum** Speg. F. Guar. nonn. n. 79, p. 29, Gaill. Bull. Soc. Mycol. 1892, p. 184, t. XV, f. 3. 1580

*Hab.* in foliis vivis Sapindaceæ, Caaguazú Brasiliae. — Perithecia globosa, 120-160  $\mu$ . diam.; asci evanidi; sporidia 4-septata, fuliginosa, 38-42 = 16-18.

46. **Meliola solanicola** Gaill. Bull. Soc. Myc. 1892, p. 184, t. XVI, 1581

*Hab.* in pag. inf. foliorum Solani cujusdam, San-Jorge Æquatoriae (LAGERHEIM). — Perithecia globosa, 150-200  $\mu$ . diam.; asci ovoidei, 2-4-spori; sporidia 38-40  $\approx$  12-14, dilute fuliginea, 4-septata.

47. **Meliola andina** Gaill. Bull. Soc. Myc. 1892, p. 185, t. XVI, f. 4. 1582

*Hab.* in utraque pag. foliorum arboris ignotæ Canzacoto Æquatoriae (LAGERHEIM). — Perithecia globosa, 180-210  $\mu$ . diam.; asci ovoidei 2-4-spori; sporidia 4-septata, fusca, 39-40  $\approx$  13-14.

48. **Meliola Harioti** Speg. Fl. Guar. nonn. n. 78, Gaill. in Bull. Soc. Myc. 1892, p. 186, t. XV, f. 4. 1583

*Hab.* ad folia Bignoniaceæ (an Leguminosæ?) prope Asuncion Paraguay. — Perithecia globosa 150-250  $\mu$ . diam.; asci ellipsoidei 50  $\approx$  30, bispori; sporidia 4-septata, fuliginea, 49-55  $\approx$  16-18.

49. **Meliola Mikaniæ** Gaill. in Bull. Soc. Myc. 1892, p. 187, t. XVI, fig. 5. 1584

*Hab.* in pag. sup. foliorum Mikaniæ, Corazon Æquatoriae (LAGERHEIM). — Perithecia globosa, 200-250  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fuscidula, 45-50  $\approx$  20-22.

50. **Meliola palmicola** Wint. Hedw. 1887, p. 31. 1585

*Hab.* in foliis vivis Sabaleos serrulatæ, in Florida (MARTIN). — Perithecia globosa 175-240  $\mu$ . diam.; asci evanidi; sporidia 4-septata, fusca, 52-62  $\approx$  19-23.

51. **Meliola evanida** Gaill. Gen. Mel. p. 102, tab. XVIII, f. 4. 1586

*Hab.* in pag. inf. Strychni cujusdam, Loango, Congo (THOLLON). — Perithecia globulosa 150-170  $\mu$ . diam.; asci ovoidei, bitrispori; sporidia 4-septata, 41-45  $\approx$  14-16, fuliginea.

52. **Meliola pellucida** Gaill. Gen. Mel. p. 103, tab. XXIII, f. 1. 1587

*Hab.* in foliis Leguminosæ (Phaseoli?) in Puente de Chimbo Æquatoriae (LAGERHEIM). — Perithecia globosa 120-170  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 4-septata, fuscidula, 38-43  $\approx$  13-15.

53. **Meliola crenata** Wint. Gaill. Gen. Mel. p. 104, tab. XXI, f. 6. 1588

*Hab.* ad folia Malpighiaceæ cujusdam, S. Francisco Brasiliæ (ULE). — Perithecia globosa 190  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 4-septata, 53-66  $\approx$  14-20.

54. **Meliola fuscidula** Gaill. Gen. Mel. p. 104, tab. XXII, f. 3. 1589

*Hab.* in pag. inf. foliorum quorundam, S. Catharina Brasiliæ (ULE). — Perithecia globosa 120-170  $\mu$ . diam.; asci obovati, bitrispori; sporidia 4-septata, fuscidula, 36-38  $\approx$  11-12.

55. **Meliola Loranthi** Gaill. Gen. Mel. p. 105, tab. XVIII, f. 5. 1590

*Hab.* in pag. sup. foliorum Loranthi, in ins. Borneo (KOR-

- THALS). — *Perithecia globulosa*, 150-200  $\mu$ . diam.; asci evanidi; sporidia 4-septata, atro-fuliginea, 62-68  $\times$  24-26.
56. **Meliola Zollingeri** Gaill. Gen. Mel. p. 105, tab. I, f. 5. 1591  
*Hab.* in pag. sup. foliorum *Desmodii*, in ins. Java (ZOLLINGER). — *Perithecia* 250-300  $\mu$ . diam.; asci ovoidei, bi-trispori; sporidia 4-septata, dilute fuliginea, 39-43  $\times$  13-16.
57. **Meliola Weigeltii** Kunze Gaill. Gen. Mel. p. 106, tab. XIX, f. 1. 1592  
*Hab.* in pag. inf. foliorum *Astronii*, Peribebuy, Paraguay (BALANSA). — *Perithecia* 150  $\mu$ . diam.; asci ovoidei, bi-trispori; sporidia 4-septata, 37-42  $\times$  13-16.
58. **Meliola Patouillardii** Gaill. Gen. Mel. p. 109, tab. XXIII, f. 2. 1593  
*Hab.* in utraque pag. foliorum *Piperis*, S. Nicolas Æquatoriæ (LAGERHEIM). — *Perithecia globosa* 150-180  $\mu$ . diam.; asci ellipsoidei bispori; sporidia 4-septata, fusca, 37-43  $\times$  13-14.
59. **Meliola Forbesii** Gail. Gen. Mel. p. 110, tab. XX, f. 1. 1594  
*Hab.* in pag. sup. foliorum quorundam, Sumatra (FORBES). — *Perithecia globulosa* 120-130  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fuliginea, 38  $\times$  16.

II. Asci clavati v. cylindranei.

*Meliola hyalospora* (sp. 3-septatis), *M. clavatispora* (sp. 4-septatis)  
*M. quercina* (sp. 5-septatis).

Species dubiæ.

*Meliola penicillata* Lév., *M. pachytricha* (Link) Sacc., *M. mucronata* (Mont.) Sacc.

**SCHENCKIELLA** P. Henn., F. brasil. II, p. 523 (Etym. a cl. doct. H. SCHENCK berolin.). — Mycelium repens, filiforme, nigrum, ramosum. *Perithecia* minuta, subglobosa, rugulosa, atra. Asci paraphysati, substipitati, 2-8-spori. Sporidia oblonga, 4-8-septata, fusca, dein in articulos dilabentia. — Ex *Microthyriaceis* enumeratur a cl. auctore, sed, ut opinor, ex lapsu calami.

1. **Schenckiella Marcgraviæ** Henn. Fung. bras. II, p. 523. 1595  
*Hab.* in pag. inf. foliorum *Marcgraviæ Schimperianæ*, S. Catharina Brasilæ. — *Perithecia* 300  $\mu$ . diam.; asci 90-130  $\times$  20-32; sporidia 4-8-septata, cylindranea, 80-120  $\times$  7-11, dein atro-fusca.

**ZUKALIA** Sacc. — Syll. IX, p. 431.

1. **Zukalia fusispora** Pat. Bull. Soc. Myc. 1892, p. 130, t. XI, f. 4. 1596  
*Hab.* in foliis Ingæ, San Florencio Æquatorix (LAGERHEIM). — Perithecia globosa 200-300  $\mu$ . diam.; asci clavati 150  $\approx$  35-40; sporidia 3-septata, hyalina, 70-85  $\approx$  10-14.
2. **Zukalia Buddleiæ** Pat. Bull. Boiss. 1895, p. 67. 1597  
*Hab.* in pag. inf. foliorum Buddleiæ, Pululahua Æquatorix. — Mycelium nullum; perithecia globosa, 250  $\mu$ . diam., pilis sparsis fuscis vestita; asci 160-200  $\approx$  20-25; sporidia 45-50  $\approx$  8, hyalina, 7-8-septata, medio constricta.

**ASTERIDIUM** Sacc. — Syll. I, p. 40. IX, p. 435.

1. **Asteridium moniliferum** E. et Ev. in Journ. Trinid. Field Natural Club. 1894. 1598  
*Hab.* in foliis vivis Saracæ indicæ in ins. Trinidad (COCKRELL). — Perithecia convexa 0,3-0,5 mm. diam.; asci 70-80  $\approx$  15-20; sporidia multiseptata, flavido-hyalina, 30-50  $\approx$  4-6.
2. **Asteridium Lagerheimii** Pat. Bull. Soc. Myc. 1892, p. 129. 1599  
*Hab.* in pag. inf. foliorum Siphocampyli, Banos Æquatorix. — Perithecia globosa 150-200  $\mu$ . lat.; asci 120  $\approx$  18; sporidia fusioidea 8-septata, hyalina, 35-42  $\approx$  6-7.
3. **Asteridium apertum** Pat. Bull. Soc. Myc. 1892, p. 129. 1600  
*Hab.* in pag. inf. foliorum Araliæ, Pichincha Æquatorix (LAGERHEIM). — Perithecia globoso-cupulata 300  $\mu$ . lat.; asci 90  $\approx$  10; sporidia 3-septata, hyalina, 18-20  $\approx$  4-5.
4. **Asteridium Punctum** Pat. Bull. Boiss. 1895, p. 67. 1601  
*Hab.* in pag. inf. foliorum Tessariæ, Pullulahua Æquatorix. — Perithecia 130-150  $\mu$ . diam., mycelio parcissime insidentia; asci 60  $\approx$  12; sporidia 20-22  $\approx$  7, pallide fusca, 3-septata.

**PSEUDOMELIOLA** Speg. — Syll. IX, p. 938.

1. **Pseudomeliola Seleriana** P. Henn. Hedw. 1894, p. 232. 1602  
*Hab.* in foliis vivis Struthanthi Selerorum, Mexico (Doct. SELER). — Perithecia subhemisphærica dein subcupulata; asci 33-60  $\approx$  9-13; sporidia cylindræa, continua guttata, subhyalina 28-42  $\approx$  2,5-3,5; paraphyses filiformes.
2. **Pseudomeliola andina** Pat. Bull. Soc. Myc. 1893, p. 150. 1603  
*Hab.* in pag. inf. foliorum arboris ignotæ, Canzacoto Æquatorix (LAGERHEIM). — Perithecia ovoideo-elongata, 250-300  $\approx$  150, coriacea, poro pertusa; asci 90  $\approx$  12, octospori; sporidia bacillaria, 65  $\approx$  3, guttulata, hyalina.

**HYALODERMA** Speg. — Syll. IX, p. 437.

1. **Hyaloderma? lateritium** Pat. et Lagerh. Bull. Soc. Myc. 1893, 1604  
p. 150.

*Hab.* in mycelio Meliolæ Lagerheimi, Rio Machangara, Æquatoris. — Perithecia subglobosa, lateritia, 50  $\mu$ . lat.; asci 30  $\times$  10; sporidia matura non visa; conidia ovoidea, hyalina, 6-7  $\times$  2-3.

**CLEISTOTHECA** Zuk. Mykol. Mittheil. pag. 4, T. XI, f. 11-19 (Bot. Zeitsch.) (Etym. *cleistos* clausus et *theca* pro perithecio). — Perithecia globulosa, astoma, atra, superficialia, duriuscula, fragilia. Asci elongati, octospori, aparaphysati. Sporidia pluri-septato clathrata, flavido-brunnea. Status conidicus *Stachybotryos* speciem sistit.

1. **Cleistotheca papyrophila** Zuk. Mykol. Mittheil. p. 4, t. XI, f. 11-19. 1605

*Hab.* in Gossypii floccis udis maculatis, Wien Austriae. — Perithecia 160-350  $\mu$ . diam.; asci sessiles 130-138  $\times$  30-32; sporidia 6-8-septata denseque muriformia, 30-35  $\times$  17-18, flavo-brunnea.

*Subfam. 3. Capnodiæ Sacc.*

**CAPNODIUM** Mont. — Syll. I, p. 73 et IX, p. 438.

1. **Capnodium cæspitosum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 325. 1606

*Hab.* in foliis vivis Photinæ japonicæ Pasadena, Calif. Amer. bor. — Perithecia subulata, simplicia v. ramosa, 300-400  $\times$  60-70; sporidia (sporulæ?) 3-septata, 12-20  $\times$  7-10, subhyalina, dein submuriformia, atro-brunnea.

2. **Capnodium Coffeæ** Pat. Bull. Soc. Myc. 1893, p. 150. 1607

*Hab.* in pag. sup. foliorum Coffeæ arabicæ, Patatoe Æquatoris. — Perithecia numerosa, longissima 1-1,5 mm. long., 20-30  $\mu$ . crass., valde ramosa; sporidia non visa.

3. **Capnodium pelliculosum** B. et Rev. — Syll. I, p. 79. — **C. Ellisii** Sacc. *C. pelliculosum* (p. p. in Magnolia), Ell. Am. Pyr. p. 51, Sacc. Syll. IX, p. 439. 1608

*Hab.* in foliis Pruni et Magnoliæ in Carolina inf. et Florida Amer. bor. — Perithecia oblonga v. ampulliformia 75-200  $\times$  30-50, sporulis 3-4  $\times$  1 foeta; conidia stellato 3-4-partita (*Tripodsporicoidea*) 50-70  $\times$  7-9, multiseptata; perithecia ascigera globulosa 10-150  $\mu$ . diam.; asci 40  $\times$  25; sporidia uniseptata, hyalina, dein 3-septata, 15-22  $\times$  4-7.

4. **Capnodium Walteri** Sacc. Hedw. 1893, p. 58, t. VI, f. 3. — Ni- 1609  
grum, late effusum, pelliculoso-secedens, foedans, superficie inæ-

quali; hyphis repentibus, ramosis, fuligineis, 6-7  $\mu$ . cr., cuboideo-articulatis, intertextis, ramis subinde adscendentibus, brevibus, simplicibus v. furcatis, apice conidia fusioidea, sæpe curva, utrinque acuta, 10-12-septata, haud constricta, 70-80  $\approx$  6-8, fuliginea gerentibus; peritheciis ascophoris et spermogonicis immixtis, polymorphis phialiformibus v. obclavatis, sæpe inæquilateris, in collum plus minus attenuatis; ascis clavato-obovatis, subsessilibus, apice rotundatis crasseque tunicatis, 60  $\approx$  30, octosporis; sporidiis 2-3-stichis, fusioideo-clavatis, apice obtusatis, 3-septatis, haud v. vix medio constrictis, 20-22  $\approx$  6-8, fuligineis; spermogonii sporulis oblongis, 5  $\approx$  2, hyalinis, biguttatis.

*Hab.* in ramis et foliis vivis Bursariæ spinosæ, Upper Yarra Australiæ (WALTER). — Notis conidiorum (fere Helminthosporii) et sporidiorum fusiformium, haud muralium, a speciebus congeneribus differt. Forte congruit cum forma floridana *Capn. pelliculosi* a cl. Ellis descripta (Pyr. North. Am. p. 51) sed conidia triposporioidea in nostro omnino nulla.

5. **Capnodium grandisporum** E. et Mart. in Ellis Am. Pyr. pag. 50, 1610 t. VII.

*Hab.* in foliis Gelsemii sempervirentis et Myricæ, Florida (MARTIN). — Perithecia pycnidica 900  $\approx$  35, sporulis hyalinis 10-12  $\approx$  2 foeta; perithecia ascigera globosa dein depressa, 120  $\mu$ . diam.; asci 75-120  $\approx$  15-20, octospori; sporidia hyalina subclavata, 4-5-septata, 30-45  $\approx$  6-7.

6. **Capnodium ramosum** Cooke Grev. XXI, p. 76. 1611

*Hab.* in foliis Mangiferæ in India (herb. BERKELEY). — Perithecia erecta, bifurcata ramosaque, 300  $\approx$  30; asci non visi.

## Fam. 2. Sphæriaceæ Fr. \*)

### Sect. 1. Allantosporæ.

**ENCHNOA** Fr. — Syll. I, p. 89, IX, p. 442.

1. **Enchnoa floccosa** (Fr.) Karst. Syll. I, p. 90. Huc spectat *Sphæria abnormis* Fr., teste Starb. Stud. p. 8. 1612

\*) Quod ad *Sphæriaceas phæophragmias, hyalophragmias, dictyosporus* et *Lophiostomaceas* attinet, cfr. BERLESE Icones fungorum, vol. I et II, 1, et seq. Patavii et Abellini, 1890-1895, ubi in tab. color. 232, species et genera permulta ad naturam illustrantur.



2. **Enchnoa mucida** (Tode) Starb. Stud. p. 11, t. 1, fig. 3, *Sphæria* 1613  
*mucida* Tode?, Mont. herb.

*Hab.* ad ligna in Arduennis (MONTAGNE). — Perithecia solitaria v. 2-plura conferta, globosa, fusco-tomentosa, longiuscule obtuse ostiolata; asci sessiles 30-40  $\approx$  6-7; sporidia allantoidea, hyalina 7,5-9  $\approx$  2,5. Ex icone potius *Eutypella* videtur quam *Enchnoa*.

**NITSCHKEA** Otth in Fuck. Symb. p. 165, emend. Ellis N. Am. Pyr. p. 245 (Etym. ab ill. mycologo TH. RITSCHKE). — Sistit *Cælosphæriæ* species peritheciis cæspitosis; ceteræ species, peritheciis sparsis v. discretis, sub *Cælosphæriæ* typo militabunt. Cfr. Ellis l. c. p. 246.

1. **Nitschkea pauidia** (B. et C.) Cooke Grev. XX, p. 107, *Sphæria* 1614  
*pauidia*, B. et C. in Herb. — Peritheciis in acervulos minutos aggregatis (3-8) vel confluentibus, subglobosis, atris, opacis, epidermide fissa erumpentibus; ascis clavato-cylindræis; sporidiis allantoideis, curvatis, continuis, hyalinis, 7-8  $\approx$  2.

*Hab.* in ramis Meliæ, Carol. inf. Amer. bor.

**CÆLOSPHÆRIA** Sacc. — Syll. I, p. 91, IX, p. 443.

1. **Cælosphæria Beccariana** Berl. Micr. Tosc. in N. Giorn. bot. it. 1615  
1892, p. 110, tab. VII, f. 3.

*Hab.* in ligno carioso in Selva pisana Etruriæ (BECCARI). — Perithecia discreta 0,3 mm. diam., rugulosa, cupulata; asci 22-27  $\approx$  10-12 (p. sp.); sporidia 10-12  $\approx$  3-4, chlorina.

**FRACCHIÆA** Sacc. — Syll. I, p. 9, IX, p. 445.

1. **Fracchiæa rostrata** Delacr. Bull. Soc. Myc. 1893, p. 266, t. XIV, 1616  
f. 6,7.

*Hab.* in radicibus *Vitis viniferæ* (a *Dematophora necatis*), Parisiis Galliæ. — Perithecia 1 mm. lata, collo 0,5 mm. longo; asci 140  $\approx$  5-6; sporidia 8-10  $\approx$  2,5 luteola. « An hujus generis? »

**CALOSPHÆRIA** Tul. — Syll. I, p. 95, IX, p. 447.

1. **Calosphæria polyblasta** Rommel et Sacc. Grev. XXI, p. 65, t. 184, 1617  
f. 1. — Peritheciis in acervulos minutos ternis-senis aggregatis v. subsparsis, sub peridermio adhærenti v. relaxato nidulantibus, globulosis,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., glabris, demum basi concavo-collabentibus, nigris, intus nitidulis; ostioliis brevicollibus, acutulibus, integris, peridermium perforantibus vix excedentibus; ascis clavatis,

deorsum tenuato-stipitatis, 42-50  $\approx$  9-10, apice obtusulis, 8-sporis, paraphysibus filiformibus asco longioribus; sporidiis in asci parte superiore conglobato-distichis, cylindraceutis, curvatis, utrinque rotundatis, 5-cuboideo-nucleatis simulateque 4-septatis, non constrictis, 12-22-plerumque 15  $\approx$  3, hyalinis.

*Hab.* in ramulis siccis Salicis capræ, ad Stockholm Sueciæ, (LARS ROMELL). — A *Cal. vasculosa* affinisque præcipue sporidiis pseudoseptatis, longis recedit.

2. **Calosphæria cornicola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 342. 1618

*Hab.* in ramis emortuis Corni asperifoliæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 200-250  $\mu$ . diam., ternato-quina; asci 27-32  $\approx$  6-6,5; sporidia 10-12  $\approx$  2, hyalina

3. **Calosphæria Punicæ** Roll. Bull. Soc. Myc. 1891, p. 211, t. XIV, f. 1, 1619

*Hab.* in cortice Punicæ Granati, Golfe Jouan Galliæ. — Perithecia globosa, crassiuscule rostrata; asci 30-40  $\approx$  5; sporidia 10  $\approx$  2,5, hyalina.

4. **Calosphæria herbicola** E. et Ev. North Am. Pyr. p. 511. 1620

*Hab.* in caulibus emortuis Lactucæ canadensis, Newfield, N. J. Amer. bor. — Perithecia 100  $\mu$ . diam. subsparsa; asci 18-20  $\approx$  5; sporidia 3-4  $\approx$  1,5-2, hyalina.

**VALSA** Fr. — Syll. I, p. 108, IX, p. 449.

1. **Valsa Diospyri** Ell. et Ev. Proc. Acad. Phil. 1894, p. 340, 1621

*Hab.* in ramis emortuis Diospyri virginianæ, Nuttallburg West Va. Amer. bor. (NUTTALL). — Perithecia quaterno-sena, 0,2-0,3 mm. diam.; asci 25  $\approx$  5 (p. sp.); sporidia 8-10  $\approx$  1,5-2, hyalina.

2. **Valsa Chionanthi** Ell. et Ev. Proc. Acad. Phil. 1894, p. 340. 1622

*Hab.* in ramis emortuis Chionanthi virginicæ, Nuttallburg West Va. Amer. bor. (NUTTALL). — Perithecia quaterno-dena, 0,2-0,3 mm. diam.; asci 40-45  $\approx$  8-10 (p. sp.); sporidia 12-15  $\approx$  3, 5-4,5; spermogonia: *Cytospora Chionanthi* Ell. et Ev. l. c.; sporulæ 4-6  $\approx$  1-1,2.

3. **Valsa lunulæspora** Pat. Bull. Bois. 1895, p. 68. 1623

*Hab.* in ramulis Cissi, San Jorge Æquatoriæ. — Perithecia subglobosa 3-8 in quoque stromate, ostiolis conicis; asci 35  $\approx$  6-7; sporidia 8-10  $\approx$  2-3, valde curvata, dilute-fuliginea.

4. **Valsa ribicola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 340. 1624

*Hab.* in ramis emortuis Ribis aurei, Kansas Amer. borealis. (BARTHOLOMEW). — Perithecia circinata 230-250  $\mu$ . diam.; asci 60  $\approx$  8; sporidia 12-15  $\approx$  3-4, hyalina.

5. **Valsa tenebricosa** B. et Br. Cooke Grev. XX, p. 106, *Sphæria* 1625  
*tenebricosa* B. et B. in Herb. — Pustulis ellipticis, epidermide  
 nigrificata nitida tectis, demum elongato-erumpentibus (*Phyllachora*  
*subæmulantibus*); peritheciis paucis, minutis, in colla brevia at-  
 tenuatis; ascis clavatis, octosporis,  $25 \approx 5$ ; sporidiis allantoideis, re-  
 ctis vel curvulis, hyalinis,  $4-5 \approx 1$ .

*Hab.* in spatha *Palmarum*, Ceylon.

6. **Valsa etherialis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 341. 1626

*Hab.* in ramis emortuis *Aceris rubri*, Nuttallburg, West Va.  
 Amer. bor. (NUTTALL). — Perith. circinata  $150-250 \mu$ . diam.; asci  
 $15-22 \approx 4-4,5$  (p. sp.); sporidia  $5-6 \approx 1$ , hyalina.

7. **Valsa pallida** E. et E. North Am. Pyr. p. 485. 1627

*Hab.* in cortice *Salicis*, Clyde N. Y. Amer. bor. (COOK). — Pe-  
 rithecia quaterno-octona,  $0,2$  mm. diam.; asci  $30-35 \approx 5$ ; sporidia  
 $6-8 \approx 1-1,5$ , hyalina. E sect. *Leucostomæ*.

**EUTYPELLA** (Nits.) Sacc. — Syll. I, p. 147, IX, p. 460.

1. **Eutypella Coryli** E. et E. New. sp. north Amer. Fung. in Proceed. 1628  
 Acad. S. N. Philad. 1893, p. 143.

*Hab.* in ramis emortuis *Coryli*, Canada (DEARNESS). — Peri-  
 thecia  $8-15$  in quoque stromate,  $250 \mu$ . diam.; asci  $20-30 \approx 4$ ; spo-  
 ridia  $5-6 \approx 1,2$ , flavida.

2. **Eutypella carpinicola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 342. 1629

*Hab.* in truncis emortuis *Carpini americanæ*, Alcove N.  
 Y. Amer. bor. (SHEAR). — Perithecia terno-sena,  $0,5-0,7$  mm. diam.;  
 asci  $40-50 \approx 5$ , longe stipitati; sporidia  $8-10 \approx 2$ , luteola.

3. **Eutypella æsculina** E. et E. New Californ. Fung. in Erythea 1893, 1630  
 p. 146.

*Hab.* in ramis emortuis *Æsculi californicæ* in California  
 (BLASDALE). — Perithecia terno-octona,  $0,5$  mm. diam.; asci  $20 \approx 4$   
 (p. sp.); sporidia  $3,5-4,5 \approx 1,2$ , hyalino-flavidula.

4. **Eutypella densissima** Ell. et Ev. Proc. Acad. Phil. 1894, p. 341. 1631

*Hab.* in truncis emertuis *Araliæ spinosæ*, Nuttallburg West  
 Va. Amer. bor. (NUTTALL). — Perithecia  $50-70$  in quoque stro-  
 mate,  $100-120 \mu$ . diam.; asci  $25-30 \approx 4$  (p. sp.); sporidia  $8-10 \approx$   
 $1,5-2$  hyalina.

5. **Eutypella Amorphæ** E. et E. in Proceed. Acad. S. N. Philad. 1893 1632  
 p. 140.

*Hab.* in ramis emortuis *Amorphæ fruticosæ*, Kansas (BAR-

THOLOMEW). — *Perithécia sena-octona* 0,5 mm. diam.; asci 36-40 3-3,5; sporidia 5-6 = 1,5, hyalina.

6. **Eutypella microsperma** Karst. et Malbr. in Le Breton et Niel 1633  
Champ. Norm. V Liste, p. 143, fig. 6.

*Hab.* in ramis siccis Pruni pr. Rouen Galliae (LETENDRE). — *Perithecia* 10-20 in quoque stromate; asci 30-35 = 4-5; sporidia 5-6 = 1.

**VALSELLA** Fuck. — Syll. I, p. 158, IX, p. 464.

1. **Valsella Myricæ** Bres. in Henn. Pilzfl. Schlesw. I, p. 256. 1634

*Hab.* in ramis emortuis Myricæ Gales, Schleswig-Holstein. — *Perithecia minima*, in quoque stromate 5-9; asci 60 = 6-7; sporidia 7-8,5 = 1,5-2.

**EUTYPA** Tul. — Syll. I, p. 162, IX, p. 466. — Conferenda absoluta monographia difficilis generis cl. doct. JULII PAOLETTI (Saggio monogr. gen. Eutypa. Venezia 1892) iconibus et clavi analytica omnium specierum locupletata.

1. **Eutypa sparsa** Romell in Paoletti Monogr. Eutyp. p. 39, t. VIII, 1635  
fig. 3.

*Hab.* in ramis decorticatis Populi tremulæ in Suecia (ROMELL). — *Perithecia monosticha* 200-350  $\mu$ . diam.; asci 16-23 = 4-5,5 (p. sp.); sporidia 6 = 1,5, cremea v. hyalina.

2. **Eutypa systema** (Fr.) Starb. Stud. p. 17, f. 8, *Sphæria* Fr. Syll. 1636  
II, p. 375. — Sporidia allantoidea 5-6 = 1-2. (Ad cortices arborum).

3. **Eutypa implicata** (Lév.) Sacc. Fungi herb. Brux. n. 10, *Sphæria im-* 1637  
*plicata* in Ann. Sc. nat. 1863, p. 295 [in Herb. Brux.]. *Valsa* Berl. in Sacc. Syll. IX, p. 453, *Quaternaria Novæ-Granatæ* Fuck. MS. in Herb. Brux.

*Hab.* in corticibus in Nova Granata (LINDIG). — Non satis diversa a var. quaternariæformi *Eutypæ ludibundæ* Sacc. Syll. I, p. 168.

**ENDOXYLA** Fuck. — Syll. I, p. 181, IX, p. 469.

1. **Endoxyla austriaca** Bäuml. Zur Pilzfl. Niederöst. VI, p. 89. 1638

*Hab.* in truncis Carpini Schönbrunn Austriæ (ZAILBRUCKNER). — *Perithecia* 600-900 = 320-360, collo subæquilongo; asci 40 = 3, 5-4 (p. sp.); sporidia 6-7 = 3-3,5, brunnea.

2. **Endoxyla acericola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 342. 1639

*Hab.* in ligno emortuo acerino Ontario, Canada (DEARNESS). —

*Perithecia* valsoideo-aggregata v. sparsa 300-350  $\mu$ . diam.; asci 130-140  $\approx$  12; sporidia 3-septata, brunnea, 18-22  $\approx$  8-10.

3. **Endoxyla lineata** (Alb. et Schw.) Cooke Grev. XX, p. 82 *Sphæria* 1640  
*lineata* Alb. et Schw. Lusat. p. 30, t. XI, Fr. S. M. II, 373.

*Hab.* in ligno pineo vetusto sicco in Lusatia, raro. — Sporidia, teste Cooke, allantoidea, 8-10  $\mu$ . longa, ex ipso spec. Schweinitziano; species nunc omnino neglecta, mihi ignota; an tamen non satis diversa ab *E. parallela*?

**CRYPTOVALSA** Ces. et De Not. — Syll. I, p. 107, IX, p. 471.

1. **Cryptovalsa tenella** Sacc. Fungi Abyss. p. 4, t. XX, f. 3. — *Peritheciis* late effusis, crebris, peridermio fere immutato immersis, globosis, nigris, 0,3-0,5 mm. diam. ostiolis vix erumpentibus, obtusis, haud sulcatis, pertusis; ascis fusoides, acutiusculis, p. s. 45  $\approx$  7, in stipitem longum guttulatum, 50  $\approx$  3, attenuatis, myriosporis; sporidiis conglobatis, allantoideis, 5-6  $\approx$  1, dilute melleis; paraphysibus nullis. 1641

*Hab.* in ramis *Acaciæ* (?), Valle Boyn pr. Keren, socia *Valsella myriotheca*. — Affinis *Crypt. uberrimæ*, sed perithecia non acervulata, ostiola non rimosa etc.

**DIATRYPE** Fr. — Syll. I, p. 191, IX, p. 472.

1. **Diatrype cornuta** E. et E. North Am. Pyr. p. 568. 1642

*Hab.* in cortice emortuo *Ailanthi*, Lyndonville N. Y. Amer. bor. (FAIRMAN). — Stroma 2-3 mm. diam.; perithecia longe rostrata; asci 25-35  $\approx$  8-10 (p. sp.), sporidia 10  $\approx$  3, flavida.

2. **Diatrype celastrina** Ell. et Ev. Proc. Acad. Phil. 1894, p. 343. 1643

*Hab.* in ramis emortuis *Celastris scandentis* Kansas (BARTHOLOMEW). — Stroma 2-3 mm. diam.; perithecia 0,5-0,7 mm. diam.; asci 60-70  $\approx$  7-8; sporidia 10-12  $\approx$  2-3, brunneola.

3. **Diatrype parvula** Berl. Micr. Tosc. in N. Giorn. botan. ital., 1892, p. 109, t. VII, f. 2. 1644

*Hab.* in ramulis exsiccatis *Sarothamni scoparii* in Monte Pisano Etruriæ (BECCARI). — Stroma 1 mm. diam.; perithecia polysticha 0,2-0,3 mm. diam.; asci 32-36  $\approx$  5-6, longissime stipitati; sporidia 7-9  $\approx$  2.

4. **Diatrype spongiosa** Pat. Bull. Soc. Myc. 1891, p. 173. 1645

*Hab.* in ramis corticatis *Eucalypti*, Quito Æquatoriæ (LAGERHEIM). — Stroma 1-2 mm. crass.; perithecia ovoidea; asci 20-25  $\approx$  8 longissime stipitati; sporidia 10-12  $\approx$  2-3, fuscidula. Habitus *Scoriæ spongiosæ*.

5. **Diatrype Macluræ** E. et E. North Am. Pyr. p. 570. 1646  
*Hab.* in ramis decorticatis Macluræ aurantiacæ, Canada (DEARNESS). — Stroma 2-10 mm. long. 1-2 mm. crass.; perithecia 0,5 mm. diam.; asci 40 = 6 (p. sp.); sporidia 10-14 = 3, flavida.
6. **Diatrype tumida** E. et E. North Am. Pyr. p. 567. 1647  
*Hab.* in cortice Ulmi, Canada (DEARNESS). — Stroma 3-4 mm. diam.; asci 40-55 = 6-7, longe stipitati; sporidia 10-12 = 2,5-3.
7. **Diatrype hullensis** E. et E. North Am. Pyr. p. 567. 1648  
*Hab.* in ligno putrescenti, Canada (MACOUN). — Stroma 4-5 mm. long.; perithecia 0,3 mm. diam.; asci 35-40 = 5-6; sporidia hyalino-flavida, 8-11 = 2-2,5
8. **Diatrype microstega** E. et E. North Am. Pyr. p. 574. 1649  
*Hab.* ad cortices in California (HARKNESS). — Stroma 0,7-1 mm. diam.; perithecia 1-5 in quoque stromate; asci 35-40 = 6-7 (p. sp.); sporidia 10-12 = 1,5-2, flavida.
9. **Diatrype bukobensis** P. Henn. F. Afr. II, p. 5. 1650  
*Hab.* in ramis emortuis, Bukoba pr. Victoria Njansa Africæ. — Stromata pulvinato-disciformia; perithecia ovata; asci non visi; sporidia 10-13 = 3-4, fuscidula.
10. **Diatrype artocreas** C. et M. Grev. XXI, p. 4. 1651  
*Hab.* in ligno putrescenti, St. Vincent in India occidentali. — Stroma 1-1,5 cm. lat.; perithecia monosticha; asci cylindranei; sporidia 10-12 = 3,5, hyalina.

**DIATRYPELLA** Ces. et De Not. — Syll. I, p. 200, IX, p. 477.

1. **Diatrypella prunicola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 344. 1652  
*Hab.* in ramis emortuis Pruni pensylvanicæ, Alcove N. Y. Amer. bor. (SHEAR). — Stroma 3-4 mm. diam., perithecia polysticha 110-150  $\mu$ . diam.; asci breves stipitati 65-70 = 8-10; sporidia 5-6 = 1, flavida.
2. **Diatrypella citricola** E. et E. North Am. Pyr. p. 587. 1653  
*Hab.* in ramis emortuis Citri Aurantii, Florida (UNDERWOOD). — Stroma 1-2 mm. diam.; perithecia 0,3 mm. diam.; asci 110-120 = 10-12; sporidia 6-7 = 1,5-2, ex hyalino flavida.
3. **Diatrypella Sassafras** E. et E. North Am. Pyr. p. 588. 1654  
*Hab.* in ramis emortuis Lauri Sassafras, Newfield, N. Y. Amer. bor. — Stroma 1-2 mm. diam.; perithecia 0,3-0,5 mm. diam.; asci longe stipitati, 100-110 = 10; sporidia flavida, 6-7 = 1,5-2.
4. **Diatrypella missouriensis** E. et E. North Am. Pyr. p. 586. 1655  
*Hab.* in ramis emortuis Coryli Missouri Amer. bor. (DEMB-

- TRIO). — Stroma 1,5 mm. diam.; perithecia 0,3 mm. diam.; asci 80 = 8; sporidia 5-6 = 1, hyalino-flavida.
5. **Diatrypella pulcherrima** E. et E. New sp. north Amer. Fung. in 1656  
Proceed. Acad. S. N. Philad. 1893, p. 144.  
*Hab.* in ramis emortuis Salicis, Canada (DEARNESS). — Stroma 1 mm. diam.; perithecia 0,2 mm. diam.; asci 30-35 = 8-10 (p. sp.); sporidia 8-12 = 1,5, hyalina.
6. **Diatrypella Underwoodii** Peck 46 Rep. p. 39. 1657  
*Hab.* in ramis emortuis « Mesquit » Texas Amer. bor. — Stroma 3-5 mm. lat.; perithecia 1-3 in quoque stromate; asci longe stipitati 70  $\mu$ . long.; sporidia 7 = 2.
7. **Diatrypella microsperma** Sacc. Fungi Abyss. p. 4, t. XX, f. 4. — 1658  
Stromatibus sparsis, exiguis, pulvinatis, levibus, innato-erumpentibus, peridermio fisso, adhærente cinctis, 0,7 mm. diam. intus atris; peritheciis globulosis, vix 0,2 mm. diam., ostiolis latentibus; ascis clavatis, obtusulis, 50-60 = 9, p. sp., in stipitem guttulum 60 = 2 attenuatis, myriosporis; sporidiis dense conglobatis, exiguis, allantoideis, 4-5 = 1, melleis; paraphysibus nullis.  
*Hab.* in cortice leviusculo ignoto, M. Dongolla pr. Ghinda col. Erythrææ. — Species parvitate stromatum et sporidiorum præsertim dignoscenda.
8. **Diatrypella pauper** Ell. et Ev. Bull. Univ. Jowa 1893, p. 404. 1659  
*Hab.* in ramis emortuis Castillo viejo, Amer. centr. (SMITH). — Stroma 1-1,5 mm. diam.; perithecia bina-quaterna 0,3 mm. diam.; asci 55-60 = 10-11, longe stipitati; sporidia 5-9 = 1,5-2.

### Sect. 2. Phæosporæ

**CERATOSTOMA** (Fr.) Sacc. — Syll. I, p. 215, IX, p. 481.

1. **Ceratostoma corticolum** E. et E. in Proceed. Acad. N. Sc. Philad. 1660  
pag. 444.  
*Hab.* in cortice interiore Ailanthi, Newfield N. J. Amer. bor. — Perithecia globosa 0,2 mm. diam., ostiolo æquilongo; asci 75 = 7-8; sporidia 12-14 = 6-7, brunnea.
2. **Ceratostoma Phœnicis** Roll. Bull. Soc. Myc. 1891, p. 96, t. VI, 1661  
fig. 4.  
*Hab.* in petiolis emortuis Phœnicis, Golfe Jouan Gallia. — Perithecia globulosa, ostiolo 0,5 mm. long.; asci 30 = 20 (p. sp.); sporidia 12-15 = 6, brunnea.

3. **Ceratostoma setigerum** E. et Ev. North Am. Pyr. p. 190. 1662  
*Hab.* in ligno quercino putri, Ohio Amer. bor. (MORGAN). — Perithecia 0,3-0,5 mm. diam., ostiolo 0,7-1, mm. long.; asci 12-15 = 4 (p. sp.); sporidia 3 = 1,5, olivaceo-brunnea.
4. **Ceratostoma subrufum** E. et Ev. North Am. Pyr. p. 192, tab. XXII. 1663  
*Hab.* in ramis quercinis putrescentibus Newfield N. J. Amer. bor. — Perithecia 112  $\mu$ . diam., ostiolo 300  $\mu$ . long.; asci 10 = 6 (p. sp.); sporidia 4 = 3, brunnea.
5. **Ceratostoma stromaticum** Delacr. Bull. Soc. Myc. 1891, p. 105. 1664  
*Hab.* in cortice Juniperi communis Rigny-sur-Arroux Gallia. — Perithecia 200  $\mu$ . diam., collo 400  $\mu$ . diam.; asci 21 = 5-6 (p. sp.); sporidia 3,5  $\mu$ . diam., fusca.
6. **Ceratostoma truncatum** Delacr. Bull. Soc. Myc. 1891, p. 105. 1665  
*Hab.* in ligno quercino carioso, Rigny-sur-Arroux Gallia. — Perithecia 0,5 mm. diam., setulosa, collo truncato; asci 50 = 5,5; sporidia 6 = 4, fusca.

**MICROASCUS** Zuk. — Syll. IX, p. 483.

1. **Microascus sordidus** Zuk. in Berichte d. Deutsch. bot. Gesellsch. 1890, pag. 297, t. XVII, f. 14-19. — Peritheciis rubido-brunneis, membranaceo-rigidulis, 0,2-0,3 mm. diam., in collum papilliforme, rarius elongatulum desinentibus, subglabris v. parce pilosis; ascis piriformibus, in hyphis subramosis brevibus acrogenis, 13-15 = 12-13, octosporis; sporidiis conglobatis, ellipsoideis, inæquilateris, rufo-brunneis, 9-9,5 = 5-6. 1666  
*Hab.* in foliis putridis Oleæ, sub campana vitrea cultus; etiam in stercore humano, Wien Austria.

**CHÆTOMIUM** Kunze — Syll. I, p. 220, IX, p. 484.

1. **Chætomium pallidum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 326. 1667  
*Hab.* in radice Dauci Carotæ fermentescenti, Canada (DEARNESS). — Perithecia pallida, 150-200  $\mu$ . diam.; asci 30-35 = 10-12; sporidia 14-18 = 10-12 brunnea, utrinque apiculata.
2. **Chætomium glabrescens** E. et E. in Proceed. Acad. S. N. Philad. 1893, p. 130. 1668  
*Hab.* in ramis putridis Salicis (?), Kansas (BARTHOLOMEW). — Perithecia 0,7 mm. diam.; asci non visi; sporidia 8-10 = 6-7, leviter compressa.

**HYPOCOPRA** Fuck. — Syll. I, p. 240 IX, p. 490.



1. **Hypocopra sphærospora** (E. et E.) Sacc., *Sordaria* E. et E. *Pyr.* 1669  
North Am. p. 128.

*Hab.* in stercore canino, Newfield N. J. Amer. bor. — Perithecia 250-300  $\mu$ . diam.; asci 150-160  $\approx$  18-20; sporidia 20-22  $\approx$  18 20, atro-brunnea, halone hyalino cincta.

**ROSELLINIA** De Not. — Syll. I, p. 252, IX, p. 495.

1. **Rosellinia gigaspora** Ell. et Ev. Bull. Univ. Jowa 1893, p. 401. 1670

*Hab.* in culmo emortuo Castillo, viejo Amer. centr. (SMITH). — Perithecia 1-1,5 mm. diam.; asci jam resorpti; sporidia 55-62  $\approx$  10-12, brunnea.

2. **Rosellinia gigantea** Ell. et Ev. Bull. Univ. Jowa p. 401. 1671

*Hab.* ad cortices Castillo viejo Amer. centr. (SMITH). — Perithecia 2,5-3,5 mm. diam.; asci 250-270  $\approx$  8; sporidia fusoida curvula, 40-60  $\approx$  6-8, olivacea dein atra.

3. **Rosellinia canzacotoana** Pat. Bull. Soc. Myc. 1893, p. 151. 1672

*Hab.* in corticibus, Canzacoto Æquatorix (LAGERHEIM). — Perithecia globosa, 0,5-9,7 mm. diam.; asci non visi; sporidia 40-45  $\approx$  10, ecalcarata, brunnea.

4. **Rosellinia palustris** Schröt. Pilze Schles. II, p. 299. 1673

*Hab.* ad terram udam inter Algas gelatinosas in Silesia. — Perithecia 0,5-0,6 mm. lat.; asci 260-360  $\approx$  10-11; sporidia 27-35  $\approx$  10, atro-brunnea.

5. **Rosellinia ostiolata** Ell. et Ev. Proc. Acad. Phil. 1894, p. 327. 1674

*Hab.* in cortice Ulmi americanæ, Kansas (BARTHOLOMEW). Perithecia 0,7 mm. diam.; asci 150  $\approx$  25; sporidia rhomboidea, 25-38  $\approx$  20-22, brunnea.

6. **Rosellinia bicolor** Ell. et Ev. Proc. Acad. Phil. 1894, p. 327. 1675

*Hab.* in ligno putri, Louisiana Amer. bor. (LANGLOIS). — Perithecia 0,5 mm. diam.; asci 125-140  $\approx$  8; sporidia 20-23  $\approx$  6-7, brunnea.

7. **Rosellinia megalœcia** E. et E. in Proceed. Acad. S. N. Philad. 1676  
1893, p. 128.

*Hab.* in trunco emortuo Salicis, Sheridam Mont. Amer. bor. (LYDIA FISCH). — Perithecia 1,5 mm. diam.; asci 100  $\approx$  6-7, p. sp.; sporidia 15-20  $\approx$  7-8, brunnea, non appendiculata.

8. **Rosellinia pulcherrima** E. et E. New West Amer. Fung. in Eri- 1677  
thea p. 197.

*Hab.* in cortice pineo ad terram, Seattle Wash. Amer. borealis (PARKER). — Perithecia 1-1,2 mm. diam.; asci 110-120  $\approx$  7-8;

sporidia 14-16 = 3,5-4,5 utrinque hyalino-appendiculata, brunnea.

9. **Rosellinia Sarothamni** Schröt. Pilze Schles. II, p. 300. 1678

*Hab.* in ramis Sarothamni scoparii in Silesia. — Perithecia 0,4 mm. lat.; asci 130-140 = 7-9; sporidia 13-16 = 7-9, atro-brunnea.

10. **Rosellinia limonispora** Ell. et Ev. Proc. Acad. Phil. 1894, p. 326. 1679

*Hab.* in foliis putridis Fraxini, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 0,7 mm. diam.; asci 70-75 = 9 (p. sp.); sporidia limoniformia, 12-15 = 7-8, atro-brunnea.

11. **Rosellinia chætomioides** Schröt. Pilze Schles. II, p. 302. 1680

*Hab.* in fimo vaccino vetusto in Silesia. — Perithecia 0,1 mm. diam.; asci 50-55 = 8-9; sporidia 11-13 = 7-8, atro-brunnea.

12. **Rosellinia cæspitosa** Ell. et Ev. Proc. Acad. Phil. 1894, p. 327. 1681

*Hab.* in ramis emortuis Celtidis occidentalis, Kansas (BARTHOLOMEW). — Perithecia 175-200  $\mu$ . diam.; asci 60-70 = 8; sporidia 9-13 = 6-7, brunnea.

13. **Rosellinia melaleuca** Ell. et Ev. Bull. Univ. Jowa p. 402. 1682

*Hab.* in ligno putrescenti, Ometepe in Amer. centr. (SMITH). — Perithecia 0,5-0,7 mm. diam.; asci 50 = 5; sporidia 8-10 = 4, brunnea.

14. **Rosellinia pinicola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 327. 1683

*Hab.* in assere pineo aëri diu exposito, Kansas (BARTHOLOMEW). — Perithecia 0,2 mm. diam.; asci 60-65 = 4 (p. sp.); sporidia 5-8 = 3-4, brunnea.

**ANTHOSTOMELLA** Sacc. — Syll. I, p. 278, IX, p. 505.

1. **Anthostomella Quercus** Passer. Fung. nov. ser. V, n. 2. — Peri- 1684

theciis gregariis, globosis, vertice depressis, vix papillatis, fuscis, per corticem longitudinaliter fissum erumpentibus; ascis paraphysatis, cylindricis, basi attenuatis, 8-sporis, 100 = 8; sporidiis monostichis ellipticis, primo hyalinis vel flavidis, uni-rarius biguttulatis, tandem olivaceo-fuligineis, 12 = 8.

*Hab.* in ramulis siccis Quercus, Collecchio, Parma Ital. bor.

2. **Anthostomella Lepidospermæ** Cooke Grev. XX, p. 5. — Perithe- 1685

ciis maculis elongatis pallidis brunneo-cinctis innatis, tectis, dein erumpentibus; ascis breve stipitatis; sporidiis elongato-ellipsoideis, biseriatis, utrinque rotundatis, continuis, pallide brunneis, 14 = 4.

*Hab.* ad ramos Lepidospermæ, Victoria Australiæ (MARTIN).

3. **Anthostomella vaga** Niessl Hedw. 1887, p. 33. 1686

*Hab.* in ramulis deciduis Clematidis Vitalbæ, Salzburg.

- *Perithecia* minuta, globosa; asci 78-80  $\approx$  7-8; sporidia 10-14  $\approx$  6-7, fusca.
4. ***Anthostomella suberumpens*** Ell. et Ev. Proc. Acad. Phil. 1894, 1687 p. 338.  
*Hab.* in cortice interiore Ulmi, Kansas Amer. bor. (BARTHOLOMEW). — *Perithecia* 250-320  $\mu$ . diam.; asci 90-110  $\approx$  7-8; sporidia 12  $\approx$  6-8, brunnea.
5. ***Anthostomella mammoides*** E. et E. in Proceed. S. N. Philad. 1893, 1688 p. 139.  
*Hab.* in ramis emortuis *Ostryæ virginicæ*, London Canada (DEARNESS). — *Perithecia* 0,5 mm. diam.; asci 110-120  $\approx$  12-15; sporidia 15-22  $\approx$  10-13, brunnea.
6. ***Anthostomella hypsophila*** Ell. et Ev. Proc. Acad. Phil. 1894, p. 338. 1689  
*Hab.* in sarmentis emortuis *Loniceræ involucratæ*, Cameron Pass. N. W. Colo. Amer. bor. (BAKER). — *Perithecia* 0,3-0,5 mm. diam.; asci 90-110  $\approx$  12; sporidia opace brunnea, 15-18  $\approx$  8-10.
7. ***Anthostomella constipata*** (Mont.) Sacc. Fungi herb. Brux. n. 13. 1690  
*Sphæria Smilacis* Cast. Cat. Mars, p. 169, *Sphæria constipata* Mont. Ann. Sc. Nat. Bot. 1849, p. 43, Cast. suppl. p. 49 [in Herb. Brux.], Desm. XIII, Not. pag. 73 (1846), *Leptosphæria Smilacis* (Cast.) Sacc. Syll. II, p. 69.  
*Hab.* in sarmentis *Smilacis*, Montaud-les-Miramas Gallicæ (CASTAGNE). — Asci octospori, 90-100  $\approx$  9-10; sporidia ellipsoidea, fuliginea, omnino continua, 1-2-guttata, 15  $\approx$  8, halone hyalino 3  $\mu$ . cr. diu cincta. Guttæ majusculæ, sub vitro parum augente, septa simulant; hinc error Castagnei et Desmazieri, qui sporidia 1-2-septata describunt. Mirum quoque quod de halone manifestissimo si- leant. *Anth. Smilacis* Fabre forma et magnitudine sporidiorum satis recedere videtur.
8. ***Anthostomella Rhizomorphæ*** (Kunze) Berl. et Vogl. in Sacc. Syll. 1691 IX, pag. 508, Sacc. Fung. herb. Bruxell. n. 12, *Sphæria Rhizomorpha* Kunze in sched. [in Herb. Brux.]. — *Peritheciis* gregariis, hypophyllis, globosis, majusculis, 0,5 mm. diam., duriusculis, apice obtuso, centro papillulato erumpentibus, atris, fusoides v. fusoides-teretibus, 90-120  $\approx$  20, breviter stipitatis, filiformi-paraphysatis, 8-sporis; sporidiis elliptico-fusoides, rectis, murino-fuligineis, 30  $\approx$  12-14, episporio v. halone pallidiore, sæpius secedenti.  
*Hab.* in foliis coriaceis, Surinam (WEIGELT). — Cur species nominetur « *Rhizomorphæ* », omnino latet.

9. **Anthostomella cornicola** E. et E. New West Amer. Fung. in Erythea p. 198. 1692

*Hab.* in ramis emortuis Corni, Seattle Wash. Amer. bor. (PARKER). — Perithecia globosa, 0,7 mm. diam.; asci 150  $\approx$  8, p. sp.; sporidia 26-22  $\approx$  7-8, opaca, initio halone et appendice hyalinis aucta.

**TYMPANOPSIS** Starb. Stud. Fries' svampherb. p. 24 (Etym. *lympanon*). — Perithecia carbonacea, polyhedrico-verrucosa, subsphæroidæ dein collapsio-cupularia, basi hyphis fuscis obsessa; asci paraphysati 8-spori; sporidia ellipsoidea, continua, olivacea.

1. **Tympanopsis euomphala** (B. et C.) Starb. l. c. fig. 12 a-d. *Bostryosphaeria* (B. et C.) Sacc. Syll. I, p. 462, *Nitschkia* Ell. et Ev. Pyr. N. A. p. 246. Asci stipitati 26-32  $\approx$  10-12, stipite 8-12  $\mu$ . long.; sporidia 6-8  $\approx$  3-4,5. 1693

**ANTHOSTOMA** Nits. — Syll. I, p. 293, IX, p. 514.

1. **Anthostoma micræcium** Ell. et Ev. Proc. Acad. Phil. 1894, p. 344. 1694

*Hab.* in ramis emortuis *Asimina trilobæ*, Nuttallburg West Va. Amer. bor. (NUTTALL). — Perithecia 200-250  $\mu$ . diam.; asci 80-100  $\approx$  8-10; sporidia 12-14  $\approx$  6-7, brunnea.

2. **Anthostoma pulviniceps** Peck in Ell. North Am. Pyr. p. 578. 1695

*Hab.* in ramis emortuis *Sambuci canadensis*, New York Amer. bor. (PECK). — Perithecia 8-12 in quaque pustula; asci clavati; sporidia 10-15  $\mu$ . longa, ellipsoideo-fusoidea, fusca.

3. **Anthostoma formosum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 344. 1696

*Hab.* in cortice emortuo *Celtidis occidentalis*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 1 mm. diam.; asci 60-70  $\approx$  4-5 p. spor.; sporidia 7-10  $\approx$  3-4, brunnea.

**XYLARIA** Hill — Syll. I, p. 309, IX, p. 523.

1. **Xylaria citrina** Masee Journ. of Bot. 1892, p. 163, t. 322, f. 20-23. 1697

*Hab.* ad ligna denudata, Morne Cochon Indiæ occid. (ELLIOTT). — Stroma 1-2 cm. alt., strato conidioph. citrino vestitum; asci cylindrici; sporidia fusca 10  $\approx$  4-5. Affinis *X. pallidæ*.

2. **Xylaria Bonii** Pat. Journ. Bot. 1891, p. 319. 1698

*Hab.* ad terram Ke So, Tonkin (BON). — Perithecia 200-300  $\mu$ . diam. (immatura); stroma conidiis fuscoideis citrinis 8-10  $\approx$  2-2,5 tectum.

3. **Xylaria badia** Pat. Journ. Bot. 1891, p. 319. 1699

*Hab.* ad ligna putrescentia, Ke So, Tonkin. — A *X. corniformi* differt substantia fulva nec alba et clavulis conidiophoris rufo-villosis; asci  $100 \approx 8$ ; sporidia  $10-12 \approx 5$  fuliginea.

4. *Xylaria teres* Sacc. *Xylaria cylindrica* Ell. et Ev. Bull. Univ. 1700  
Jowa 1823, p. 414, nec Lév.

*Hab.* in corticibus, Ometepe et Castillo viejo Americæ centr. (SMITH). — Minor quam *X. mucronata* et sporidiis  $8-11 \approx 3,5-4$ ; stroma 1,5 cm. alt.

5. *Xylaria rhizophila* Cooke et Mass. in Grev. V. 22. p. 37. 1701

*Hab.* in radicibus Graminum, Queensland Australiæ (BAILEY). — Stroma clavatum in 2-6 clavulas divisum, 3-5 cm. alt. 5-7 mm. lat.; asci cylindrici; sporidia brunnea,  $8-10 \approx 2-3$ .

6. *Xylaria nigripes* Kl. — Syll. IX, p. 527. — var. *trifida* Pat. Journ. 1702  
Bot. 1891, p. 317, t. IV, f. 4.

*Hab.* ad caudices emortuos, Ke So, Tonkin. — A typo differt quia gracilior, clavula trifida v. trilobata; sporidiis brunneis  $4 \approx 2$ .

7. *Xylaria scoparia* Pat. Journ. Bot. 1891, p. 318, t. IV, f. 2. 1703

*Hab.* ad ligna putrescentia, Tonkin. — Cæspitosa, 3-6 cm. alta; perithecia subsuperficialia; asci breves; sporidia  $3 \approx 2$ , brunnea.

8. *Xylaria flexuosa* Pat. Journ. Bot. 1891, p. 318, t. IV, f. 2. 1704

*Hab.* ad ligna putrescentia, Tonkin. — Stipes 3-4 cm. long., clavulæ 5-6 cm. long.; perithecia contextu citrino immersa; sporidia  $5-6 \approx 4$ , brunnea.

9. *Xylaria cirrata* Pat. Journ. Bot. 1891, p. 318, t. IV, f. 1. 1705

*Hab.* ad truncos emortuos, Tonkin. — Stroma 12-20 cm. alt.; perithecia prominula globulosa, atra; sporidia fuliginea,  $6 \approx 3-4$ .

10. *Xylaria xanthorrhiza* Pat. Bull. Boiss. 1895, p. 68. 1706

*Hab.* ad terram ustam in fragmentis ligneis, Pululahua Æquatoriae. — Clava brunnea, *teres*, 10-15 mm. alt., 1-2 mm. cr., tantum conidiophora visa, apice cinereo, conidiis  $3 \approx 1,5$ ; mycelium flavo-crocatum.

11. *Xylaria obtusissima* (Berk.) Sacc. Syll. I, p. 318. — var. *togoensis* P. Henn. F. Afr. II, p. 6. 1707

*Hab.* ad ligna, Togo Africae (BÜTTNER). — Stroma 5 cm. long., 15 mm. lat.; perithecia ovoidea; sporidia  $9-11 \approx 4$ .

12. *Xylaria luzonensis* Henn. Fung. Warburg. p. 225, t. VII. 1708

*Hab.* in leguminibus putridis Afzeliæ bijugæ, N. Luzon Philipp. (WARBURG). — Stromata 4 cm. long., 2-3 mm. cr.; asci  $70-90 \approx 5-6$ ; sporidia  $7-9 \approx 4-5$ . E sect. *Thamnomycetis*.

13. *Xylaria Warburgii* Henn. Fung. Warburg. p. 224, t. VIII, f. 2. 1709

*Hab.* in fructibus putridis Sloanæ in Nova Guinea (WARBURG). — Stroma 5 cm. long.; asci cylindranei; sporidia 10-12 = 4,5-5,5 atro-fusca. E sect. *Thamnomycetis*.

14. **Xylaria Chamissonis** (Ehrenb.) Sacc. Syll. I. p. 343. — var. **ca- 1710**  
**meroensis** P. Henn. F. Afr. I, p. 368.

*Hab.* ad ligna (?), Camerum Africae. — Stromata 5 cm. alt., 1 mm. cr.; perithecia parca, compressa. — E sect. *Thamnomycetis*.

15. **Xylaria Schwackei** P. Henn. Fung. goyaz. p. 108. 1711

*Hab.* ad ramos emortuos in silvis, Goyaz et Rio de Janeiro Brasiliæ (SCHWACKE et ULE). — Stroma erectum, filiforme, atrum, 3 cm. long., vix 0,5 cr.; perithecia libera, lateritia, 0,5 mm. diam.; asci 100-110 = 6-8; sporidia 12-14 = 4-5, atro-brunnea. — E sect. *Thamnomycetis*.

**PORONIA** W. — Syll. I, p. 349, IX, p. 542.

1. **Poronia Ehrenbergii** P. Henn. F. Æthiop. I, p. 118 et in Engl. 1712  
bot. Jahrb. XVII, p. 5, t. I, f. 1.

*Hab.* ad terram arenosam in Arabia (EHRENBERG). — Stroma 15 cm. long., 2 mm. crass.; asci 160-180 = 20-25; sporidia 30-40 = 16-21, atro-fusca.

2. **Poronia turbinata** Ell. et Ev. Bull. Univ. Journ. 1893, p. 410. 1713

*Hab.* in cortice tenui ramorum, Castillo viejo Americae centr. (SMITH). — Stroma 3 mm. lat. et alt.; perithecia 0,5-0,7 mm. diam.; asci 75 = 6-7; sporidia 12-14 = 5-6, olivacea.

3. **Poronia Doumetii** Pat. Rev. Myc. 1893, p. 136. 1714

*Hab.* ad terram arenaceam in Tunisia. — Stroma 1-1,5 cm. diam.; asci 130 = 10; sporidia 15 = 9, fuliginea. Inter *Poroniam* et *Xylariam* media.

**USTULINA** Tul. — Syll. I, p. 350, IX, p. 542.

1. **Ustulina linearis** Rehm Hedw. 1892, p. 310. 1715

*Hab.* ad truncum Betulae in Palmario Horti botanici berolinensis (SYDOW). — Stroma 0,2-2 mm. long., 0,2-0,5 cm. lat.; asci 80-90 = 6; sporidia 10 = 5, fusco-nigra.

**HYPOXYLON** Bull. — Syll. I, p. 352, IX, p. 543.

1. **Hypoxylon Morgani** E. et E. North Amer. Pyren. 648. 1716

*Hab.* ad ligna putrescentia, Ohio Amer. bor. (MORGAN). — Stroma 1-3 cm. long.; peritheci 0,7 mm. diam.; asci 150 = 10-12; sporidia 35-38 = 10-12, brunnea.

2. **Hypoxylon Büttneri** P. Henn. F. Afric. p. 366. 1717  
*Hab.* ad cortices, Togo Africae (BÜTTNER). — Stroma hemisphaerico-globosum; perithecia vix 1 mm. diam.; asci 150-300  $\approx$  11-20; sporidia 16-35  $\approx$  10-17, fusco-brunnea.
3. **Hypoxylon atrosphaericum** C. et Mass. Grev. XXII, p. 68. 1718  
*Hab.* ad cortices, Queensland Australiae (BAILEY). — Stroma subglobosum 2 mm. diam.; asci cylindrici; sporidia 22  $\approx$  6. E sect. *Sphaeroxylon*.
4. **Hypoxylon occidentale** Ell. et Ev. Proc. Acad. Phil. 1894, p. 345. 1719  
*Hab.* in ramis et truncis emortuis Pasadena Californiae (MAC CLATCHIE). — Stroma 2-10 cm. diam.; perithecia circ. 1 mm. diam.; asci 120-150  $\approx$  6-7; sporidia 14-16  $\approx$  6-7. Habitus *Daldiniae concentricae*.
5. **Hypoxylon papillatum** Ell. et Ev. Bull. Univ. Jowa 1893, p. 408. 1720  
*Hab.* ad ligna putrida variarum arborum, Kansas, Canada, Ohio, Delaware, Louisiana, Nicaragua. — Stroma 4-6 cm. long., 2-4 cm. lat., 3-4 mm. crass.; perithecia oblonga 1-1,5 mm. long.; asci 70-90  $\approx$  6; sporidia 10-12  $\approx$  4,5-6, olivacea.
6. **Hypoxylon lilacino-fuscum** Bres. F. Trid. II, p. 43, t. 149, f. 1. 1721  
*Hab.* in cortice truncorum Ulmi pr. Tridentum. — Stroma lilacino-fuscum, elongatum; perithecia 0,5-0,6 mm. lat; asci 160-200  $\approx$  5-8; sporidia 10-13  $\approx$  5-5,5 fusca.
7. **Hypoxylon subluteum** E. et E. North Amer. Pyr. 648. 1722  
*Hab.* ad ligna putrida pr. St. Martinsville La. Amer. boreali (LANGLOIS). — Stroma 5 cm. long., 2 cm. lat. 1 mm. crass.; perithecia 0,7 mm. diam.; asci 75-80  $\approx$  6 (p. sp.); sporidia 10-12  $\approx$  4-4,5, fuliginea.
8. **Hypoxylon nicaraguense** Ell. et Ever. Bull. Univ. Jowa 1893, p. 407. 1723  
*Hab.* ad ligna putrescentia, Ometepe et Castillo viejo Amer. centr. (SMITH). — Stroma discoideum 2-3 cm. diam.; perithecia oblonga 1 mm. long., 0,6 mm. lat.; asci 60  $\approx$  7; sporidia 8-12  $\approx$  3,5-5 pallide brunnea.
9. **Hypoxylon cinereum** E. et E. North Amer. Pyren. p. 647. 1724  
*Hab.* in lignis putridis pr. St. Martinsville La. Amer. bor. (LANGLOIS). — Stroma 3-4  $\approx$  1 cm.; perithecia 200  $\mu$ . diam.; asci jam elapsi; sporidia 8-10  $\approx$  3,5-4, opaca.
10. **Hypoxylon discoideum** E. et E. New Fung. Proceed. Acad. Sc. Philad. 450. 1725  
*Hab.* ad cortices ramorum Rhois Toxicodendri Newfield

N. J. Amer. bor. — Stroma 2-3 mm. diam.; sporidia 8-11 = 3-3,5.

11. **Hypoxylon Nuttallii** Ell. et Ever. Proc. Acad. Phil. 1894, p. 346. 1726

*Hab.* ad cortices emortuas Magnoliæ Fraseri, Nuttallburg West. Va Amer. bor. (NUTTALL). — Stroma 3-6 mm. diam., atropurpureum; asci jam resorpti; sporidia 7-8 = 3-4, brunnea.

12. **Hypoxylon annuliforme** Rehm in Verh. bot. Ver. Brand 1890, 1727 pag. 65.

*Hab.* ad cortices pr. Gabun Africae (BÜTTNER). — Stroma 1 cm. diam.; perithecia globosa vix 1 mm. diam.; asci 90-100 = 5-6; sporidia 7-8 = 2,

13. **Hypoxylon atro-rufum** E. et E. North Am. Pyr. p. 742. 1728

*Hab.* ad cortices putres Quercus? Michigan Amer. bor. (HICKS). — Stroma 2-3 mm. diam.; perithecia 0,5 mm. long.; asci 100 = 5; sporidia 6-7 = 3, brunnea.

14. **Hypoxylon platystomum** E. et E. North Am. Pyr. p. 649. 1729

*Hab.* in ramulis dejectis Meliæ, St. Martinsville La. Amer. bor. (LANGLOIS). — Stroma 6 cm. diam., 1 mm. crass.; perithecia 0,7 = 0,5 mm.; asci 50-55 = 4; sporidia 5-6 = 2,5-3, pallide brunnea.

15. **Hypoxylon ohiense** E. et E. North Amer. Pyr. p. 648. 1730

*Hab.* in lignis putridis, Ohio Amer. bor. (MORGAN). — Stroma 2 mm. crass.; perithecia 1 = 1,2 long.; asci clavati 22 = 6 (p. sp.); sporidia 4-5 = 2,5, brunnea.

16. **Hypoxylon atro-viride** Ell. et Ev. Proc. Acad. Phyl. 1894, p. 346. 1731

*Hab.* in cortice putri Betulæ v. Quercus, Nuttallburg, West Va. Amer. bor. (NUTTALL). — Stroma 1-1,5 cm. lat., 4 mm. crass.; asci 100 = 3,5-4; sporidia 4,5-5,5 = 2, pallide brunnea.

17. **Hypoxylon cylindrophorum** Ell. et Ev. Bull. Univ. Jowa 1893, 1732 p. 406.

*Hab.* in ligno sicco indurato, Ometepe Amer. centr. — Stroma pulvinatum, 2 = 1 cm.; perithecia cylindrica; asci 20-25 = 3 (p. sp.); sporidia 3-3,5 = 2, pallide brunnea.

**KRETZSCHMARIA** Fr. — Syll. IX, p. 565.

1. **Kretzschmaria Pechuelii** P. Henn. F. Afric. I, p. 365. 1733

*Hab.* in truncis putrescentibus, Loango Africae (PECHUEL-LÖSCHE). — Stromata peritheciigera caespitosa 2-3 mm. alt.; asci octospori; sporidia 26-29 = 7-12.

2. **Kretzschmaria novo-guineensis** Henn. F. Novo-guineens. p. 7. 1734

*Hab.* in truncis putrescentibus in Nova Guinea. — Stroma cae-



spitiosum 3-6 mm. alt.; asci cylindraceo-clavati; sporidia 23-40  
= 2-10

3. **Kretzschmaria pusilla** Ell. et Ev. Bull. Univ. Jowa 1893, p. 410. 1735

*Hab.* in truncis emortuis Castillo viejo Amer. centr. (SMITH).  
— Capitulum 2 mm. diam.; stipes 3-4 mm. long.; perithecia 0,7  
mm. diam; asci jam elapsi; sporidia 20-22 = 6.

4. **Kretzschmaria paradoxa** Pat. Bull. Soc. Myc. 1892, p. 50. 1736

*Hab.* in cortice Mangiferæ indicæ, Ke-so, Tonkin. — Stroma  
10-15 cm. long. valde ramosum; perithecia ovoidea; asci non  
visi. Adest forma conidiophora.

**DALDINIA** De Not. — Syll. I, p. 393.

1. **Daldinia Warburgii** Henn. Fung. Warburg. p. 225, tab. 8, f. 4. 1737

*Hab.* ad truncos in Asia orientali (WARBURG). — Stroma de-  
presso-globosum 2-3 cm. diam.; asci 220-270 = 11-14; sporidia 28-  
36 = 8-12.

**NUMMULARIA** Tul. — Syll. I, p. 395, IX, p. 569.

1. **Nummularia lataniæcola** Rehm et Bref. Unters. X, p. 255, t. IX, 1738  
f. 1-3 et in Lindau Pilzfl. Westf. p. 30.

*Hab.* in palmario Horti botanici Münster Germaniæ. — Stroma  
0,5-1,5 mm. long., 5 mm. lat. discoideum; perithecia 1 mm. long.;  
asci 118-136 = 9-11; sporidia 12-16 = 7-8, nigro-fusca.

2. **Nummularia lateritia** E. et E. New sp. North Amer. Fung. in Pro- 1739  
ceed. Acad. S. N. Philad. 1893, p. 144.

*Hab.* in cortice putri Fraxini sambucifoliæ, London Ca-  
nada (DEARNESS). — Stroma discoideum 0,5-1 cm. diam., 1 mm.  
crass.; perithecia 0,3-0,5 mm. long.; asci 100-120 = 8; sporidia  
10-12 = 4-5, atro-brunnea.

3. **Nummularia cinerea** Pat. Bull. Boiss. 1895, p. 68. 1740

*Hab.* in lignis emortuis, Pululahua Æquatoriæ. — Stroma ap-  
planatum 5-8 mm. diam., atro-carbonaceum; perithecia immersa  
300-350  $\mu$ . diam.; asci 80 = 5; sporidia fusco-brunnea, 8-10 = 3-4.

4. **Nummularia rufa** Ell. et Ev. Bull. Univ. Jowa 1893, p. 406. 1741

*Hab.* ad cortices Ometepe Amer. centr. (SMITH). — Stroma 1  
mm. crass., effusum; perithecia 0,3 mm. diam.; asci 60-70 = 3; spo-  
ridia 3,5-4,5 = 2-2,5, pallide brunnea.

5. **Nummularia vernicosa** Ell. et Ev. Bull. Univ. Jowa 1893, p. 406. 1742

*Hab.* in cortice tenuiore ramorum, Castillo viejo Amer. centr.  
(SMITH). — Stroma 1 mm. crass.; perithecia 0,3-0,5 mm. diam.;  
asci non visi.

## Sect. 3. Hyalosporæ.

**CERATOSTOMELLA** Sacc. — Syll. I, p. 408, IX, p. 573.

1. **Ceratostomella investita** (Schw.) Starb. Stud. 26, f. 3, *Sphæria* 1743  
Schw. Syll. II, p. 414. — Asci 50-60  $\approx$  6-8; sporidia hyalina, 6-8  
 $\approx$  3-4 (In lignis cariosis).

2. **Ceratostomella microspora** E. et E. New Fung. in Proceed. Acad. 1744  
N. Sc. Philad. 1893, p. 444.

*Hab.* in ramis putrescentibus fagineis, Alcove N. Y. Amer.  
bor. (SEHAR). — Perithecia 150  $\mu$ . diam. ostiolo 200-300  $\mu$ . long.;  
asci 16  $\approx$  3; sporidia hyalina, 3  $\approx$  0,5-0,7, suballantoidea.

3. **Ceratostomella echinella** E. et E. North Am. Pyr. p. 195. 1745

*Hab.* in cortice interiore Aceris, N. Y. et Ohio Amer. bor. —  
Perithecia 250  $\mu$ . diam., ostiolo 1 mm. long.; asci 25-30  $\approx$  4-5; spo-  
ridia 3-4  $\approx$  1, curvula, hyalina.

**GNOMONIELLA** Sacc. — Syll. I, p. 413, IX, p. 575.

1. **Gnomoniella caulicola** Bäumler F. Schemnitz. III, p. 5. 1746

*Hab.* in caulibus emortuis Lavateræ thuringiacæ pr.  
Schemnitz. — Perithecia 250-300  $\mu$ . diam., ostiolo 150-180  $\approx$  50;  
asci 35-46  $\approx$  6; sporidia 12-14  $\approx$  2, hyalina.

2. **Gnomoniella cilicifera** (Fr.) Starb. Stud. p. 26, *Sphæria* Fr. — Syll. 1747  
II, p. 434.

**LÆSTADIA** Auersw. — Syll. I, p. 421, IX, p. 577 — *Guignardia*  
Viala et Rav. Bull. Soc. mycol. 1892, p. 63, *Carlita* Bonord., nec  
Rabenh. \*).

1. **Læstadia Alchemillæ** Rostr. Till. Grönl. Svamp. p. 615. 1748

*Hab.* in foliis exsiccatis Alchemillæ vulgaris in Groenlan-  
dia. — Perithecia lenticulara; asci 33-40  $\approx$  6-7; sporidia 9-10  $\approx$  3-4.

2. **Læstadia Mespili** Fautr. Rev. Myc. 1892, p. 4. 1749

*Hab.* in foliis Mespili germanicæ, Côte-d'Or Gallicæ. — Pe-

\*) Cl. doct. P. Magnus in *Æsterr. bot. Zeitschr.* 1894 n. 6, forte non imme-  
rito contendit, nomen *Carlita* Bonorden (1864) [nec Rabenh. (1857)] pro *Læ-*  
*stadia* Auersw. (1869) [nec Lessing (1832)] esse jure prioritatis adhibendum.  
Hic vero non expedit sine necessitate tot species novo nomine salutare. Ni-  
hil revera obstat, ut jam monui, quod fungum *Laestadiam*, phanerogamam  
autem *Lestadium* vocare pergamus.

- rithecia papillata, mox collabentia; asci  $50 \approx 8$ ; sporidia cymbiformia,  $10 \approx 3$ , hyalina.
3. **Læstadia Ilicis** Jaczewski. Cfr. Bot. Centralbl. 1893, I, p. 404. 1750  
*Hab.* in foliis Ilicis Aquifolii in Helvetia. — Perithecia globoso-discoidea; asci  $80-90 \approx 12$ ; sporidia  $20-25 \approx 6$ , hyalina.
4. **Læstadia rubescens** E. et E. North Am. Pyr. p. 259. 1751  
*Hab.* in foliis dejectis Castaneæ Newfield N. I. Amer. bor. — Perithecia  $75-80 \mu$ . diam.; asci  $40 \approx 6$ ; sporidia  $5-6 \approx 3,5-4$ , hyalina.
5. **Læstadia Spartii** Passer. Fung. nov. ser. V, n. 3. — Peritheciis 1752  
 gregariis, minutis epidermide tectis subglobosis, ostiolo punctiformi; ascis clavatis vel etiam obclavatis, aparaphysatis, 8-sporis,  $40-62 \approx 10-12,5$ ; sporidiis fusiformibus vel clavatis, distichis aut subtristichis, continuis, hyalinis,  $15-20 \approx 4-5$ .  
*Hab.* in ramulis emortuis Spartii juncei, Majatico, Parma Ital. bor. — *Læstadium Epilobii* Auersw. appropinquare videtur.
6. **Læstadia lunulata** Rostr. Bidr. Ascom. Dovr. p. 6. 1753  
*Hab.* in caulibus emortuis Compositarum (Erigeronis?) in Norvegia. — Perithecia  $150 \mu$ . diam.; asci  $50-60 \approx 12-13$ ; sporidia lunulata,  $14-18 \approx 5-6$ , hyalina.
7. **Læstadia scabiosa** Lamb. et Fautr. in Rev. Myc. 1894, p. 161. 1754  
*Hab.* in caulibus siccis Scabiosæ Columbariæ in Gallia. — Perithecia  $100 \mu$ . diam.; asci  $40-45 \approx 10-12$ ; sporidia  $9-12 \approx 5-6$ .
8. **Læstadia Gentianæ** Rehm in Wegel. Beitr. Pyr. Schweiz. p. 2, 1755  
 t. I, f. 5-6.  
*Hab.* in caulibus siccis Gentianæ luteæ pr. Solothurn Helvetiæ. — Perithecia  $120-190 \mu$ . diam.; asci  $42-52 \approx 12-14$ ; sporidia  $15-22 \approx 4,5-5,5$ , hyalina.
9. **Læstadia Litseæ** (B. et Br.) Cooke Grev. XX, p. 65, *Sphærella* 1756  
 B. et Br. in Herb.  
*Hab.* in foliis Litseæ, Queensland Australiæ. — Perithecia punctiformia; asci clavati; sporidia ellipsoidea  $20-30 \mu$ . long. hvalina.
10. **Læstadia castanicola** E. et E. North Am. Pyr. p. 259. 1757  
*Hab.* in foliis dejetis Castaneæ, Newfield N. J. Amer. bor. — Perithecia  $200-250 \mu$ . diam.; asci  $60 \approx 10$ ; sporidia  $10-12 \approx 5-6$  hyalina.
11. **Læstadia Sparti** Boy et Jacz. Mat. Myc. Montpell. p. 30, fig. 5, 1758  
 (*Carlia*).  
*Hab.* in culmis Lygei Sparti, Grammont pr. Montpellier. — Perithecia perexigua poro pertusa; asci  $50 \approx 32-35$ ; sporidia ovoideo-oblonga,  $25 \approx 10$ , hyalina, continua.

12. **Læstadia echinophila** (Schw.) Sacc. Syll. I, p. 425, *Phomatospora* 1759  
*echinophila* (Schw.) Cooke Grev. XX, p. 87, *Sphæria echinophila*  
 Schw. Amer. Bor. 1755, Syll. II, p. 431. — Species Cesatiana (cfr.  
 Syll. I, p. 425) eadem est ac Schweinitziana. In hac tamen Cooke  
 indicat sporidia 6 × 2.

**PHOMATOSPORA** Sacc. — Syll. I, p. 432, IX, p. 589.

1. **Phomatospora helvetica** Wegelin Beitr. Pyr. Schweiz, p. 3, t. I, 1760  
 f. 7-9.

*Hab.* in ramis decorticatis salicinis et fraxineis pr. Burgdorf Helvetiæ. — Perithecia 0,5 mm. long., 0,2-0,3 mm. lat. alt.; asci 130-140 × 7; sporidia 14-17 × 5-6, hyalina.

2. **Phomatospora arenaria** Sacc. Bomm. Rouss. Contr. Myc. Belg. 1761  
 IV, p. 276.

*Hab.* in culmis siccis Elymi arenarii, Ostende Belgii. — Perithecia 105-140 μ. diam.; asci 110-120 × 7; sporidia 12-15 × 6, hyalina.

**PHYSALOSPORA** Niessl — Syll. I, p. 433, IX, p. 591.

1. **Physalospora microsticta** Cooke Grev. XX, p. 5. 1762

*Hab.* in phylloidiis emortuis, Victoria Australiæ (MARTIN). — Perithecia punctiformia; asci cylindrici; sporidia 14-16 × 8, hyalina.

2. **Physalospora craticola** Wegelin Beitr. Pyr. Schweiz, p. 2, t. I, 1763  
 f. 1-4.

*Hab.* in ramis decorticatis Alni, Fraxini, Fagi, Bischofszell, Burgdorf. et Solothur Helvetiæ. — Perithecia 200-300 μ. diam. 170 μ. crass.; asci 70-90 × 13-17; sporidia 23-28 × 7-9, hyalina. Conferenda cum *Phys. gregaria* Sacc.

3. **Physalospora agrifolia** E. et E. New West Amer. Fung. in Ery- 1764  
 thea p. 198.

*Hab.* in foliis Quercus agrifoliæ in California (BLASDALE). Perithecia conferta intus flavida dein nigra 150-200 μ. diam.; asci 45-60 × 8-10; sporidia 10-15 × 5-6, hyalina.

4. **Physalospora Malbranchei** Karst. in Le Bret. et Niel Champ. Norm. 1765  
 V, Liste p. 148.

*Hab.* ad ramulos Tiliæ, Rouen Galliæ. — Perithecia 0,4 mm. diam.; asci 90-100 × 15; sporidia 28-30 × 9, hyalino-flavida.

5. **Physalospora padina** (Fries) Cooke Grev. XX, p. 86, *Sphæria* Fr. 1766  
 apud Moug.

*Hab.* in ramis Padi in Gallia (MOUGÉOT). — Sporidia elongato-ellipsoidea, biseriata, hyalina, continua, 4-guttata, 20 × 8.

6. **Physalospora Araliæ** Pat. Bull. Boiss. 1895, p. 70. 1767

*Hab.* in pag. sup. foliorum Araliæ, Pichincha Æquatoriæ. — Perithecia maculis flavis innata, 0,3 mm. lat.; asci 130 × 15; sporidia 23-26 × 6, hyalina.

7. **Physalospora Gynoxidis** Pat. Bull. Soc. Myc. 1892, p. 131. 1768

*Hab.* in foliis Gynoxidis laurifoliæ, Pichincha Æquatoriæ. — Perithecia 0,3-0,5 mm. lat.; asci 100 × 45; sporidia 28-32 10-14, roseo-hyalina.

8. **Physalospora Ambrosiæ** E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 447. 1769

*Hab.* in foliis virentibus Ambrosiæ trifidæ, Racine Wis. Amer. bor. (DAVIS). — Perithecia 200  $\mu$ . diam.; asci 60-70 × 10-12; sporidia 10-12 × 6-7, hyalina.

9. **Physalospora Galii** Rostr. Bidr. Ascom. Dovr. p. 7. 1770

*Hab.* in caulibus emortuis Galii borealis, Dovre Norvegiæ. — Perithecia minuta; asci 38-42 × 6-7; sporidia fusioidea, 11-13 × 2,5.

10. **Physalospora ventricosa** (DR. et M.) Cooke Grev. XX, p. 107, 1771

*Dothidea ventricosa* DR. et Mont. in Herb. Berk. — Peritheciis sparsis, innatis, tectis, globosis, atris, papillatis; ascis clavatis, breviter stipitatis; sporidiis ellipticis, utrinque apiculatis, hinc eunotiæformibus, continuis, hyalinis, 15 × 8.

*Hab.* in caulibus Ricini (in Algeria?).

11. **Physalospora obtusa** (Schw.) Cooke Grev. XX, p. 86, *Sphæria* 1772

*obtusa* Schw. Amer. bor. 1688, Syll. II, p. 423. — Asci clavati; sporidia lanceolata hyalina 35-40 × 9.

12. **Physalospora iridicola** Roum. et Fautr. Rev. Myc. 1892, p. 110. 1773

*Hab.* in foliis siccis Iridis foetidissimæ, Côte-d'Or Galliæ. — Perithecia erumpentia, fragilia; asci clavati; sporidia 20-23 × 4-5, hyalina.

13. **Physalospora Asholæ** (B. et Br.) Cooke Grev. XX, p. 82 *Sphæ-* 1774

*ria Asholæ* B. et B. in Herb.

*Hab.* in Palmis, Ceylon. — Perithecia globosa, minuta; asci clavati; sporidia 18-20 × 10, hyalina.

14. **Physalospora Phormii** Schröt. Pilze Schles. II, p. 347. 1775

*Hab.* in foliis emortuis Phormii tenacis in Horto bot. Breslau Germaniæ. — Perithecia 0,25 mm. lat.; asci 66-75 × 11-13; sporidia 18-22 × 5-6, hyalina-flavida.

**GEMINISPORIA** Pat. Bull. Soc. Myc. 1893, p. 151 (Etym. ex ascis bi-

sporis). — Perithecia foliicola, innata, epidermide atrata tecta, membranacea, poro pertusa; asci aparaphysati, bispori, clavulati; sporidia continua, oblonga, hyalina.

1. **Geminispora Mimosæ** Pat. Bull. Soc. Myc. 1893, p. 151. 1776

*Hab.* in pag. inf. foliorum *Mimosæ floribundæ*, Pululahua Æquatoriæ. — Perithecia 300  $\mu$ . d.; asci 50-70  $\times$  20; sporidia 25-30  $\times$  7-9.

**TRABUTIA** Sacc. et Roum. — Syll. I, p. 449, IX, p. 601.

I. *Eu-Trabutia*. Sporidia subhyalina.

1. **Trabutia Phyllodii** Cooke et Masee Grev. XIX, p. 60. 1777

*Hab.* in phyllodiis *Acaciæ longifoliæ*, Victoria Australiæ (MARTIN). — Perithecia maculis brunneis stromaticis adnata; asci tereti clavati octospori; sporidia 20-24  $\times$  10 (hyalina?).

2. **Trabutia parvicapsa** Cooke Grev. XX, p. 5. 1778

*Hab.* in phyllodiis *Acaciæ*, Victoria Australiæ (MARTIN). — Perithecia minuta, nitidula, maculis brunneis immersa; asci clavati 4-8-spori; sporidia 35-40  $\times$  10, hyalina.

II. *Agostæa* Sacc. \*) Sporidia brunnea.

3. **Trabutia Lantanæ** P. Henn. Fung. goyaz. p. 108. 1779

*Hab.* in foliis subviviis *Lantanæ* sp. Goyaz Brasilæ (ULE). — Stroma epiphyllum, atrum, perithecia innata applanata. Asci 23-27  $\times$  20-22; sporidia 6-8  $\times$  5-7. hyalino-flavidula, dein brunnea.

**TRICHOSPHERIA** Fuck. — Syll. I, p. 453, IX, p. 602.

1. **Trichosphæria flavida** E. et E. North Am. Pyr. p. 152. 1780

*Hab.* in ligno putri flavo-maculato, Canada (DEARNESS). — Perithecia 125  $\mu$ . diam., spinulis 35  $\times$  3 vestita; asci 35  $\times$  3; sporidia 5-6  $\times$  1.5, hyalina.

2. **Trichosphæria subcalva** E. et E. in Proceed. Acad. S. N. Philad. 1781 1893, p. 129.

*Hab.* in ligno putri *Ostryæ virginicæ*, Canada (DEARNESS). — Perithecia 0,3 mm. diam. pilis mollibus et pallidis vestita; asci 100  $\times$  10; sporidia 13-16  $\times$  5-6, hyalina.

3. **Trichosphæria horrida** Ell. et Ev. Bull. Univ. Jowa 1893, p. 399. 1782

\*) Dico subgenus claro ab. Jos. Agosti, bellunensi (1715-1780) auctori *De re botanica tractatus* Bell. 1770.

*Hab.* in corticibus, Ometepe Amer. centr. (SMITH). — Perithecia 0,7 mm. diam., setulæ 100-250 = 8; asci 45-50 = 7-8; sporidia 6-8 = 2,5, hyalina.

4. **Trichosphæria Anselliae** Em. Marchal Bull. Soc. belg. micr. 1894, 1783 p. 264, t. VII, f. 6.

*Hab.* in pseudobulbo sicco Anselliae congouensis in Congo inf. (E. LAURENT). — Perithecia undique pilosa, 300-400  $\mu$ . d.; asci 65-80 = 8-12; sporidia continua (rarissime obsolete 1-septata) 16-22 = 5-6.

5. **Trichosphæria Sacchari** Masee Ann. of Botany 1893, p. 515, 1784 t. XXVII.

*Hab.* in culmis Sacchari officinarum, Barbados. — Asci aparaphysati cylindracei; sporidia octona, continua, hyalina, 8-9 = 4. *Melanconii* species est socia et sistit statum conidicum.

6. **Trichosphæria Arundinariae** E. et E. North Am. Pyren. p. 153. 1785

*Hab.* in culmis emortuis Arundinariae, Louisiana Amer. bor. (LANGLOIS). — Perithecia ovoideo-conica, setis 150-200 = 4-6 vestita; asci 80-110 = 7-8; sporidia 20-22 = 5-7, hyalina.

**WALLROTHIELLA** Sacc. — Syll. I, p. 455, IX, p. 605.

1. **Wallrothiella basitricha** Penz. et Sacc. Monogr. Agrum. p. 330, 1786 tab. XXVI, f. 3.

*Hab.* in ligno vetusto Citri Aurantii, in Monte Argentario Etruriae. — Perithecia 400-500  $\mu$ . diam. fibris mycelicis atris insidentia; asci 20-22 = 9-10 (p. sp.); sporidia 6-8 = 2-2,5 hyalina.

2. **Wallrothiella pusilla** Passer. Fung. nuovi ser. V, n. 4. — Peritheciis sparsis vel gregariis in ligno infuscato superficialibus, minutis, globosis, vertice papillulatis, atris; ascis cylindricis, aparaphysatis, 8-sporis, 40-50 = 2,5-3; sporidiis cylindricis, uniserialibus, hyalinis, continuis, minute 4-nucleatis, 5-6 = 1,5. 1787

*Hab.* in trunco putri, Collecchio, Parma Ital. bor. — Accedunt conidia torulacea, fusca, helicoideo-convoluta, 10-articulata.

3. **Wallrothiella parvula** E. et E. New Sp. north Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 133. 1788

*Hab.* in cortice radicum Fagi, Canada (DEARNESS). — Perithecia 150-200  $\mu$ . diam. nitidula; asci 50 = 5-6; sporidia 5-6 = 1,5-2,5, hyalina.

4. **Wallrothiella sphærelloides** Rehm in Lindau Pilzfl. Westf. p. 17, 1789 et Bref. Unters. X, p. 205.

*Hab.* in ramis Piri pr. Münster Germaniæ. — Perithecia 100-140  $\mu$ . diam.; asci 45-54  $\times$  6-9; sporidia 6-8  $\times$  5-6, hyalina.

**BOTRYOSPHÆRIA** Ces. et De Not. — Syll. I, p. 456, IX, p. 605.

1. **Botryosphæria Pruni-spinosæ** Delacr. Bull. Soc. Myc. 1892, p. 191, 1790 t. XVII, f. II.

*Hab.* in ramis Pruni spinosæ pr. La Rochelle Galliæ. — Perithecia 3-5 in quoque stromate, intus alba; asci 130  $\times$  18; sporidia 25-33  $\times$  12, hyalina. Peraffinis *B. Berengerianæ*. Spermogonia adsunt: sporulæ 5  $\times$  1,5.

2. **Botryosphæria subconnata** (Schw.) Cooke, Syll. IX, p. 607, *Thümenia valsarioides* Rehm in M. U. n. 2166 (nec *Winteria* ut Cooke l. c.). — Specimina in Gossypio albo in M. U. sunt immatura; descriptionem fructificationis nondam vidi.

3. **Botryosphæria? epichloë** (Kunze) Sacc. Fung. herb. Bruxell. n. 11 1792 *Sphæria epichloë* Kunze in sched. in Herb. Brux. — Epiphylla, hypogena, oblonga, gemella, subconfluens, depressa, rugosa, atra; peritheciis ovalibus, ostiolo papillato demum pertuso; ascis....; sporidiis ellipsoideis, hyalinis, 7  $\times$  4.

*Hab.* in foliis graminaceæ guian. in Surinam (WEIGELT). — Ubi asci reapse desint, species ad *Dathiorellam* spectaret.

#### Sect. 4. Hyalodidymæ.

**SPHÆRELLA** Ces. et De Not. — Syll. I, p. 476, IX, p. 611.

1. **Sphærella hypsicola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 334. 1793

*Hab.* in caulibus Trollii laxi, Cameron Pass, Colo. Amer. bor. — (CRANDALL). — Perithecia 80-90  $\mu$ . diam.; asci 25-35  $\times$  7-8; sporidia 9-11  $\times$  2,5-3, hyalina.

2. **Sphærella cœrulea** Ell. et Ev. Proc. Acad. Phil. 1894, p. 334. 1794

*Hab.* in caulibus emortuis Aquilegiæ cœruleæ, Colorado, Amer. bor. (CRANDALL). — Perithecia 100-120  $\mu$ . diam.; asci oblongi; sporidia 15-20  $\times$  3,5-4,5.

3. **Sphærella Hellebori** Roum. F. Gall. n. 170 [in Herb. Brux.] Sacc. 1795

Fung. herb. Brux. n. 14. — Maculis epiphyllis, angulosis, minutis, albidis, margine concolori; peritheciis punctiformibus, creberrimis, innatis, globulosis, ostiolo albido pertusis; ascis... immaturis.

*Hab.* in foliis aridis Hellebori viridis ad ripas fluvii, pr. Toulouse Galliæ (ROUMEGUÈRE). — Videtur, etsi immatura, diversa a *Sph. Lachesi* et *Sph. Hermione* quoque helleboricolis.



4. **Sphærella confinis** Karst. — Syll. I, p. 507. — \***Hambergerii** Ro- 1796  
mell et Sacc. — Peritheciis dense gregariis, subsphæroideis, 100  $\mu$ .  
diam., epidermide arcte velatis erumpentibusque, nigris, subastomis;  
ascis subclavatis sessilibus, 25-50  $\approx$  7-10; sporidiis oblongo-fusoi-  
deis, obscure uniseptatis, plerumque 4-guttatis, rectis curvulisve,  
12-15  $\approx$  3-4, ex hyalino chlorinis.  
*Hab.* in foliis subvivis Arabidis Gerardi in Gotlandia (E.  
HAMBERG). — Accedit quoque ad *S. carniolicam*.
5. **Sphærella gossypina** Atkins. Bull. Torr. Bot. Cl. 1891, pag. 300, 1797  
tab. 122, f. 4-6.  
*Hab.* in foliis Gossypii herbacei, Alabama Amer. bor. so-  
cia *Cercospora gossypina*. — Perithecia 60-70  $\mu$ . diam.; asci 40-  
45  $\approx$  8-10; sporidia 15-18  $\approx$  3-4, hyalina,
6. **Sphærella sidæcola** E. et E. New West Amer. Fung. in Erythea 1798  
1893, p. 198.  
*Hab.* in foliis vivis Sidalceæ delphinifoliæ, California. —  
Perithecia subcircinata; asci 35-40  $\approx$  8; sporidia 10-12  $\approx$  8, pirifor-  
formia, chlorina.
7. **Sphærella rhea** Fautrey Rev. mycol. 1894, p. 162. 1799  
*Hab.* in foliis Rutæ graveolentis in Gallia. — Perithecia  
minuta pertusa; sporidia 1-septata 16-18  $\approx$  5-6. Socia adest *Phyl-  
losticta rhea* (spor. 8-11  $\approx$  3-4) et *Septoria rhea* (spor. 18-25  $\approx$  2,  
bi-trisept.).
8. **Sphærella Begoniæ** Pat. Bull. Boiss. 1895, p. 70. 1800  
*Hab.* in pag. inf. foliorum Begoniæ, San Jorge Æquatoriæ.  
— Perithecia 100-130  $\mu$ . diam., gregaria; asci 50-70  $\approx$  10; sporidia  
1-septata, 31-23  $\approx$  3-3,5, hyalina.
9. **Sphærella goodiæfolia** Cooke Grev. XXI, p. 38. 1801  
*Hab.* in foliis Goodiæ latifoliæ, Victoria Australiæ (MOR-  
RISON). — Perithecia vix conspicua; asci clavati; sporidia 10-12  
 $\approx$  4, hyalina.
10. **Sphærella Baccharidis** Pat. Bull. Boiss. 1895, p. 70. 1802  
*Hab.* in pag. sup. foliorum Baccharidis, San Jorge Æqua-  
toriæ. — Perithecia 250  $\mu$ . diam., in soros conferta; asci 100-120  
 $\approx$  40-60; sporidia 30-35  $\approx$  10-12, 1-septata, hyalina.
11. **Sphærella Krigiæ** E. et E. North Am. Pyr. p. 280. 1803  
*Hab.* in foliis Krigiæ amplexicaulis, Wisconsin Amer. bor.  
(DAVIS). — Perithecia 72  $\mu$ . diam.; asci 20-25  $\approx$  6-7; sporidia 10-  
12  $\approx$  1,5 (immatura).
12. **Sphærella plantaginicola** Pat. Bull. Soc. Myc. 1893, p. 153. 1804

*Hab.* in foliis Plantaginis, Panecillo Æquatoriæ. — Perithecia 100-150  $\mu$ . diam.; asci 80  $\approx$  20; sporidia 26-30  $\approx$  7-9.

13. **Sphærella grisea** Boy. et Jacz. Mat. mycol. Montpell. p. 21, f. 6. 1805

*Hab.* in caulibus siccis Scrophulariæ caninæ, Saint-Martin pr. Montpellier. — Perithecia minuta agglomerata; asci 32  $\approx$  15; sporidia clavato-piriformia, 15  $\approx$  6,5 hyalina.

14. **Sphærella asterinoides** Pat. Bull. Soc. myc. 1892, p. 132. 1806

*Hab.* in pag. sup. foliorum Solanaceæ cujusdam, Pichincha, Æquatoriæ. — Perithecia 250  $\mu$ . diam.; asci 58-60  $\approx$  12-15; sporidia 20-22  $\approx$  4-5, hyalina.

15. **Sphærella Solani** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1807 p. 134.

*Hab.* in foliis Solani Dulcamaræ, Ohio et Canada Amer. bor. — Perithecia 80-110  $\mu$ . diam.; sci 35-40  $\approx$  10; sporidia 10-12  $\approx$  3.

16. **Sphærella Lycii** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1808 p. 135.

*Hab.* in foliis vivis Lycii vulgaris Canadâ, (DEARNESS). — Perithecia 160  $\mu$ . diam.; ascî 35-45  $\approx$  10; sporidia 12-15  $\approx$  5-6.

17. **Sphærella Asperulæ** Roum. et Fautr. Rev. mycol. 1894, p. 171. 1809

*Hab.* in foliis Asperulæ odoratæ in Gallia. — Perithecia minuta discoidea; asci 60-70  $\approx$  13-20; sporidia 20-26  $\approx$  6-9 hyalina.

18. **Sphærella Rubiæ** Brun. Glan. mycol. Ser. 3, Herbor. 1892-93, 1810 p. 3. — Peritheciis minutis, sparsis, immersis, ostiolo vix erumpentibus; ascis octosporis, claviformibus, 40  $\approx$  10-12; sporidiis distichis, oblongis 1-septatis, rectis, hyalinis 7-10  $\approx$  3.

*Hab.* ad caules emortuos Rubiæ tinctoriæ, Saintes in Gallia.

19. **Sphærella Chimaphilæ** E. et E. Proceed. Acad. N. Sc. Philad. 447 1811 (1893).

*Hab.* in foliis vivis Chimaphilæ umbellatæ, Delaware Amer. bor. (COMMONS). — Perithecia 75-100  $\mu$ . diam.; asci 40-45  $\approx$  6-7; sporidia 7-8  $\approx$  2,5, hyalina.

20. **Sphærella chimaphilina** Peck 47 Rep. p. 24 (1894), (S. *Chimaphilæ*). 1812

*Hab.* in foliis dejectis Chimaphilæ umbellatæ Cooperstown Junction Amer. bor. — Perithecia 60-80  $\mu$ . diam.; asci 40-50  $\mu$ . long.; sporidia 12-15  $\approx$  4 hyalina. A S. *Chimaphilæ* E. et E. videretur differre sporidiis subduplo majoribus.

21. **Sphærella Dircae** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1813 p. 134.

- Hab.* in foliis vivis *Dircæ palustris*, Canada (DEARNESS). —  
— Perithecia 80-110  $\mu$ . diam.; asci 35  $\times$  6; sporidia 15-20  $\times$  5-6  
hyalina.
22. **Sphærella acerna** Fautr. Rev. Myc. 1891, p. 166. 1814  
*Hab.* in pag. inf. foliorum *Aceris campestris*, Côte-d'Or  
Galliæ. — Perithecia subastoma, aggregata; asci 40  $\times$  6; sporidia 8-2.
23. **Sphærella alarum** Ell. et Halst. North Am. Pyr. p. 279. 1815  
*Hab.* in samaris *Acerum*, New Brunswick N. J. Amer. bor.  
(HALSTED). — Perithecia 60-70  $\mu$ . diam.; asci 40  $\times$  10; sporidia 12-  
14  $\times$  3-3,5 hyalina.
24. **Sphærella Castanææ** Tognini Contr. Mic. Tosc. p. 8. 1816  
*Hab.* ad ramos *Castanææ vescæ* in Etruria. — Perithecia  
prominentia carbonacea; asci 55  $\times$  10; sporidia 13  $\times$  6. Vix hujus  
generis ob perithecia carbonacea valde prominentia, corticola.
25. **Sphærella etrusca** Tognini Contr. Mic. Tosc. p. 8. 1817  
*Hab.* in trunco vetusto *Castanææ vescæ* in Etruria — Pe-  
rithecia 100  $\mu$ . diam.; asci 40  $\times$  25; sporidia 20  $\times$  7, medio constri-  
cta. Vix hujus generis. Ex ipso auct. in litt. potius *Didymellæ*.
26. **Sphærella Henriquesiana** Sacc. Fl. myc. lusit. p. 10. — Perithe- 1818  
ciis hypophyllis hinc inde in areolas maculiformes nigras densis-  
sime confertis, globoso-lenticularibus, poro rotundo pertusis 200  
 $\mu$ . diam., contextu laxiusculo; ascis crasse fusoides brevissime sti-  
pitatis, apice crasse tunicatis obtuseque tenuatis, 60-65  $\times$  18-22,  
octosporis, aparaphysatis; sporidiis 2-3-stichis oblongo-clavatis,  
apice rotundatis, 1-septatis, non constrictis, 4-guttulatis, 20-22  $\times$   
5-6, rectis, hyalinis.  
*Hab.* in foliis emortuis *Ailanti glandulosæ*, Choupal pr.  
Coimbra (MOLLER). *Sphærellæ Edemati* subaffinis.
27. **Sphærella maculata** Fautr. Rev. Myc. ort. 1891, p. 166. 1819  
*Hab.* in foliis dejectis *Pruni Mahaleb*, Côte-d'Or, Galliæ.  
— Perithecia 100  $\mu$ . diam.; asci 35-45  $\times$  10; sporidia 10  $\times$  2,5  
chlorina.
28. **Sphærella pirina** E. et E. North Am. Pyr. p. 275. 1820  
*Hab.* in foliis dejectis *Pisi*, Newfield N. J. Amer. bor. — Pe-  
rithecia 75-100  $\mu$ . diam.; asci 22-30  $\times$  5-6; sporidia 6-9  $\times$  2, fla-  
vidula.
29. **Sphærella cryptica** Cooke Grev. XX, p. 5. 1821  
*Hab.* in foliis languidis *Eucalypti*, Victoria Australiæ (MAR-  
TIN). — Perithecia subglobosa, immersa; asci obpiriformes; spori-  
dia 10  $\times$  3 hyalina.

30. **Sphærella nubilosa** Cooke Grev. XIX, p. 61. 1822

*Hab.* in foliis vivis Eucalypti, Victoria Australiae (MARTIN).

— Perithecia 40-60  $\mu$ . diam.; asci clavati; sporidia 16  $\approx$  3 hyalina.

31. **Sphærella Manganottiana** Mass. Contr. Micol. Veron. pag. 140, 1823  
t. 5, f. 34.

*Hab.* in sarmentis siccis Vitis viniferæ in agro veronensi Ital. bor. — Perithecia 70-100  $\mu$ . diam.; asci 44-50  $\approx$  16-21; sporidia oblongo-clavata, 1-septata, 11-12  $\approx$  3,5-4 (ex icone).

32. **Sphærella Asiminæ** Ell. et Kell. North Am. Pyr. p. 268. 1824

*Hab.* in foliis vivis Asiminæ trilobæ, Ohio Amer. bor. (KELLERMAN). — Perithecia 75  $\mu$ . diam.; asci 24-27  $\approx$  12; sporidia 12  $\approx$  3,5 hyalina.

33. **Sphærella alba** Passer. Diagn. Funghi nuovi n. 5. — Maculis 1825  
epiphyllis, discoideis, albido-cinereis; peritheciis sparsis, globosis, atris, ostiolo acuto erumpenti; ascis sessilibus aparaphysatis, basi gibbis, 38-45  $\approx$  13-15; sporidiis ad ascorum basim tristichis, elongato-fusiformibus, medio septatis, hyalinis, 15  $\approx$  4,5-5.

*Hab.* in foliis languidis Populi albæ, Vigheffio Parma Ital. bor. — In iisdem maculis adest etiam *Leptosphaeria Salicinarum* Passer.

34. **Sphærella Juniperi** Fautr. Rev. Myc. 1871, p. 166. 1826

*Hab.* in foliis Juniperi communis, Côte-d'Or Galliae. — Perithecia seriata; asci 40  $\approx$  8; sporidia 10-12  $\approx$  3.

35. **Sphærella pinicola** Fautr. Rev. Myc. 1891, p. 125. 1827

*Hab.* in foliis Pini austriacæ, Côte-d'Or Galliae. — Perithecia 100  $\mu$ . diam.; asci 20-30  $\approx$  10-15; sporidia 9-11  $\approx$  2,5 chlorina.

36. **Sphærella canadensis** E. et E. North Amer. Pyr. p. 280. 1828

*Hab.* in foliis Thujæ occidentalis, Canada (DEARNESS). — Perithecia minuta, pertusa; asci 40-50  $\approx$  12-15; sporidia 20-22  $\approx$  5-7 hyalina.

37. **Sphærella Vivipari** Winter Deuts. Polar-exped. II, p. 94. — Pe- 1829  
ritheciis dense gregariis, amphigenis, maculas indeterminatas irregularesque formantibus, immersis, globosis, poro pertusis, fusco atris, ex 100  $\mu$ . diam.; ascis fasciculatis, e basi latiore sursum parum attenuatis, sessilibus, 8-sporis 35  $\approx$  8-9, sporidiis inordinatis v. subdistichis, oblongis, sæpe curvatis, medio uniseptatis, constrictisque hyalinis, cellula inferiore parum angustiori et magis attenuata, 12-4  $\approx$  3-4.

*Hab.* in foliis emortuis Polygoni vivipari, Kingua Fjord.

38. **Sphærella minutissima** Wint. Die deutschen Polar-expeditionen 1830 1882-3 vol. II, p. 93. — Peritheciis sparsis, minutis, 60  $\mu$ . diam., globosis, poro simplici pertusis, membranaceis, fuscis; ascis e basi ventricose sursum attenuatis, brevissime abrupteque stipitatis, fasciculatis, 8-sporis, 20-25  $\approx$  10  $\mu$ .; sporidiis in asci parte inferiore conglobatis, oblongo-clavatis, didymis, medio non constrictis, hyalinis, 8  $\approx$  2,5.

*Hab.* in frondibus emortuis *Lastreæ fragrantis*, Kingua-Fjord. — Diversa est *Sph. minutissima* Peck (1887). — Syll. IX, p. 648 — quæ *Sph. perparva* Sacc. dicenda.

39. **Sphærella Tulasnei** Janczewski Recherch. sur le *Cladosp. herbarum* etc. sur les cereales Crac. 1894 cum tab. (Bull. Acad. Sc. Cracovie). 1831

*Hab.* in foliis cerealium, hinc inde. — Perithecia globoso-conoidea minuta; asci tereti-fusoidei 100-150  $\approx$  14-16; sporidia tereti-oblonga, constricto-1-septata, hyalina, 28  $\approx$  6,5. *Cladosporium herbarum* («saltem ejus quædam forma») est hujus stat. conid.

40. **Sphærella basicola** B. Frank in Berichte deut. bot. Gesellsch. 1832 1895, p. 62.

*Hab.* in vaginis interioribus *Secalis Cerealis* in Germaniæ pluribus locis. — Perithecia 120-180  $\mu$ . diam., poro simplici pertusa nucleo roseolo; asci clavati; sporidia ovoidea, 1-septata, leviter constricta, hyalina, 10-12  $\mu$ . longa.

41. **Sphærella nigrificata** Fautr. Rev. Myc. 1891, p. 166. 1833

*Hab.* in foliis languidis *Agrostidis stoloniferæ*, Côte-d'Or Galliæ. — Perithecia aggregata; asci 30-40  $\approx$  12-15; sporidia 18-20  $\approx$  6-7.

42. **Sphærella Oryzopsidis** E. et E. in Proceed. Acad. S. N. Philad. 1834 1893, p. 134.

*Hab.* in foliis *Oryzopsidis asperifoliæ* Michigan Amer. bor. (HICKS). — Perithecia 75-80  $\mu$ . diam.; asci 35-40  $\approx$  10-12; sporidia 12-15  $\approx$  3-3,5 hyalina.

43. **Sphærella Phragmitis** E. et E. New spec. Fung., Proceed. Acad. 1835 N. Sc. Philad. 1893, pag. 446.

*Hab.* in foliis emortuis *Phragmitis communis*, Indiana Amer. bor. (HARPER). — Perithecia 100-110  $\mu$ . diam.; asci 30-45  $\approx$  7-9; sporidia 9-12  $\approx$  3-4 hyalina clavato-piriformia. Socia adest *Stagonospora Phragmitis* E. et E.: sporulis 10-12  $\approx$  3-4, hyalino-flavidis, bi-tri-nucleatis.

44. **Sphærella Asparagi** Bres. F. Trid. II, p. 43, t. 149, f. 2. 1836

*Hab.* in caulibus *Asparagi officinalis*, Tridenti. — Perithecia 60-80  $\mu$ . lat.; asci 50-70  $\approx$  12-14; sporidia 20-24  $\times$  8-9, hyalina.

45. **Sphærella Desmazieri** (Mont.) Sacc. Fungi herb. Brux. n. 15. *Saccidium Desmazieri* Mont. in Desm. Pl. crypt. n. 351 [in Herb. Brux.]. — Amphigena, microscopica, erumpens, hinc inde nebuloso-conferta, globulosa, atra, 120  $\mu$ . diam., apice pertusa; ascis clavatis, subsessilibus, 21-24  $\approx$  9-10; octosporis; sporidiis subdistichis, breve fusoides, utrinque obtusulis, 1-septatis, 9  $\times$  3, ex hyalino chlorinis (non omnino maturis visis).

*Hab.* in foliis siccis *Iridis Pseudacori* in Gallia. — Diagnosis auctoris l. c. data non convenit: an species duæ in eadem matrice?

**APIOSPORA** Sacc. — Syll. I, p. 539, IX, p. 659.

1. **Apiospora Rosenvingei** Rostr. Till. Grönl. Svamp. p. 616. 1838

*Hab.* in ramulis *Betulæ glandulosæ*, Narsak Groenlandiæ. — Perithecia poro pertusa; asci 65-70  $\approx$  11-12; sporidia prope basim 1-septata, 14-15  $\approx$  5-6, hyalina nebulosa.

2. **Apiospora Rhododendri** Oud. Contrib. Fl. myc. Pays-Bas XV, p. 8. 1839

— Peritheciis minimis, 100  $\mu$ . diam., atris, membranaceis, subepidermicis, hinc inde gregariis, ostiolo vix perspicuo, protrudenti; ascis cylindraceo-clavatis 90  $\approx$  12, 8-sporis, pseudoparaphysatis; sporidiis piriformibus, subcurvulis, basi attenuatis, 18-21  $\approx$  4,5-5, 1-septatis.

*Hab.* ad ramos *Rhododendri* cujusdam, Pays-Bas.

3. **Apiospora Polypori** E. et E. North Am. Pyr. p. 311. 1840

*Hab.* in Fomite applanato vetusto, Delaware Amer. bor. (COMMONS). — Perithecia 200  $\mu$ . diam.; asci 40-45  $\approx$  10-12; sporidia 12  $\approx$  4.

**DIDYMELLA** Sacc. — Syll. I, p. 545, IX, p. 661.

1. **Didymella Fagopyri** Lamb. et Fautr. Rev. Myc. 1894, p. 75, T. CL, 1841

f. 1. — Peritheciis hinc hinc gregariis, obtectis, erumpentibus, globulosis, conicis v. planis, pertusis; ascis confertis, difformibus, 40-50  $\approx$  18-20; sporidiis 4-8nis, inæqualiter 1-septatis, 20-25  $\approx$  6.

*Hab.* ad caules *Fagopyri* esculenti, Côte-d'Or in Gallia.

2. **Didymella Smilacis** E. et E. North Am. Pyr. p. 732. 1842

*Hab.* in caulibus emortuis *Smilacis*, Newfield N. J. Amer. bor. — Perithecia 300  $\mu$ . diam.; asci 35-40  $\approx$  5-6; sporidia 8-10  $\approx$  3, hyalina, breviter constricta.

3. **Didymella rubitingens** (Blox.) Cooke Grev. XX, p. 82, *Sphæria* 1843  
*rubitingens* Bloxam in Herb. Berk. — Peritheciis erumpentibus, mox nudatis, conicis, basi plana insculptis matricem rubro-maculantibus, nigris nitidulis; ascis clavatis; sporidiis fusoideis, 1-septatis, tenuiter constrictis, 4-guttatis,  $20 \approx 7$ , hyalinis.  
*Hab.* in caulibus herbarum, Gopsall Britanniae (BLOXAM).
4. **Didymella uberiformis** (Schw.) Cooke Grev. XX, p. 82, *Sphæria* 1844  
*uberiformis* Schw. Amer. bor. 1665, nec Fries. — Erumpens, corticola, sparsa; peritheciis semiimmersis, prominulis, atris, ostiolo crasso, conico; ascis clavatis; sporidiis lanceolatis, uniseptatis, 18  $\mu$ . long.  
*Hab.* in cortice Betulæ, Bethlehem Amer. bor.
5. **Didymella pilifera** Fautr. et Lamb. Rev. myc. 1894, p. 160, t. CL, 1845  
 fig. 4.  
*Hab.* in cortice Juniperi communis, Côte-d'Or Galliae. — Perithecia globoso-suburceolata; asci  $58 \approx 28$ ; sporidia 20-25  $\approx$  8-10, constricto-1-septata, hyalina utrinque 4-setigera. — «An novi generis typus?».
6. **Didymella Myricæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 335. 1846  
*Hab.* in ramis emortuis Myricæ ceriferæ Kiamansie Dol. Amer. bor. (COMMONS). Perithecia 100-120  $\mu$ . diam.: asci  $40 \approx 20$ ; sporidia  $20 \approx 6-8$ , hyalina, 4-guttata.
7. **Didymella Physocarpi** Ell. et Ev. Proc. Acad. Phil. 1894, p. 335. 1847  
*Hab.* in ramis emortuis Physocarpi opuliformi, Nuttallburg West Va. Amer. bor. (NUTTALL). — Perithecia 0, 2 mm. diam., intus alba; asci  $85-90 \approx 10-12$ ; sporidia  $19-22 \approx 4-5$ , 4-nucleata, hyalina.
8. **Didymella psoriella** (B. et C.) Cooke Grev. XX, p. 82, *Sphæria* 1848  
*psoriella* B. et C. in Herb. — Gregaria v. sparsa; peritheciis innatis, cuticulam elevantibus, globosis, nigris, pertusis; ascis clavatis, 8-sporis; sporidiis ellipsoideis, utrinque leniter tenuatis, 1-septatis, constrictis, 4-guttatis, hyalinis,  $25 \approx 8$ .  
*Hab.* in cortice Platani, Carolina Amer. bor.
9. **Didymella fructigena** E. et E. North Am. Pyr. p. 319. 1849  
*Hab.* in fructibus et putaminibus Cerasi, Newfield N. J. Amer. bor. — Perithecia 100-150  $\mu$ . diam.; asci  $34-40 \approx 6-7$ ; sporidia hyalina, constricta,  $12-15 \approx 3-3,5$ .

**GNOMONIA** Ces. et De Not. — Syll. I, p. 501, IX, p. 672.

1. **Gnomonia Fautreyi** Roll. Rev. Mycol. 1894, p. 73, Tab. CLXI, f. 4. 1850

— Peritheciis submembranaceis, atris, numerosis, globulosis, 400-500  $\mu$ . diam., primum cuticula obtectis, dein ostiolo cylindraceo prorumpentibus 150  $\mu$ . long., 100  $\mu$ . lat.; paraphysibus nullis; ascis numerosis fusiformibus brevi-stipitatis, apice tunica incrassatis 80  $\approx$  12; sporidiis hyalinis, distichis, oblongis, ovato-cuneiformibus, basi attenuatis, 1-septatis, 18-23  $\approx$  4-6.

*Hab.* ad caules siccos Galeobdolonis lutei, Côte-d'Or in Gallia.

2. **Gnomonia Quercus-Ilicis** Berl. Riv. Pat. Veg. I, p. 294. 1851

*Hab.* in pag. sup. foliorum Quercus Ilicis, Avellino Ital. merid. — Perithecia globosa 100-110  $\mu$ . diam., collo crassiusculo; ascis 45-50  $\approx$  12-16; sporidia 20-24  $\approx$  7-8, 1-septata hyalina.

3. **Gnomonia Andropogonis** E. et E. North Am. Pyr. p. 324. 1852

*Hab.* in foliis dejectis Andropogonis, Newfield N. J. Amer. bor. — Perithecia 0,5 mm. diam., ostiolo sublaterali 0,5 mm. long.; ascis 40  $\approx$  10 (p. sp.); sporidia 20-25  $\approx$  4, hyalina.

**PHARCIDIA** Körb. — Syll. IX, p. 676.

1. **Pharcidia marina** Ch. Bommer, Bull. Soc. Belg. Microsc. 1891, 1853 p. 151.

*Hab.* in testis Balani balanoidis in Hollandia. — Perithecia 117-200  $\mu$ . diam., semiimmersa, poro 30-40  $\mu$ . lat. pertusa; ascis octospori 65-90  $\approx$  10-16 paraphysati; sporidia oblonga, 1-septata, 12-18  $\approx$  4-7, subhyalina.

**EPICYMATIA** Fuck. — Syll. I, p. 570.

1. **Epicymatia Modoniæ** Passer. Diagn. fung. nuovi, V, n. 6. — Pe- 1854

ritheciis . . . . . ascis clavatis, paraphysatis, 8-sporis, 75-90  $\approx$  10; sporidiis distichis vel oblique monostichis, fusiformibus, curvulis, medio septatis et constrictis, loculis biguttulatis, 20-22,5  $\approx$  5.

*Hab.* ad Stilbosporam Modoniam in ramis emortuis Castaneæ vescæ, Vigheffio, Parma Ital. bor.

**MELANOPSAMMA** Niessl. — Syll. I, p. 675, IX, p. 682.

1. **Melanopsamma obtusella** Sacc. Grev. 1892, p. 66, t. 184, f. 4. — 1855

Peritheciis sparsis, globoso-depressis, basi insculpta subsuperficialibus,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., carbonaceis, nigris, levibus, ostiolo minuto impresso obtuso; ascis cylindricis, brevissime stipitatis, apice rotundatis, 100-120  $\approx$  8; paraphysibus filiformibus; sporidiis oblique monostichis, obovato-oblongis, utrinque acutiuseculis, constrictulo-1-septatis, 17-18  $\approx$  6, ex hyalino dilutissime luteolis.



*Hab.* in ramis decorticatis putrescentibus *Rhamni Frangulæ*, Rigny Galliaë (FLAGEOLET). — Ab affini *M. obtusa* Karst. differt ascis cylindricis angustioribus, sporidiis supra latioribus, peritheciis minus emergentibus, matrice etc. Socium adest *Lophiostoma dumeti* Sacc.

2. **Melanopsamma corticola** E. et E. New sp. North Amer. Fung. in 1856 Proceed. Acad. S. N. Philad. 1893, p. 129.

*Hab.* in cortice vivente *Quercus albæ*, Newfield N. J. Amer. bor. — Perithecia 175-200  $\mu$ . diam.; asci 50-65  $\approx$  10-12; sporidia 12-15  $\approx$  3-3,5, constricto-uniseptata, hyalina.

3. **Melanopsamma umbratilis** Wegelin Beitr. Pyr. Schweiz. p. 3, t. I, 1857 f. 10-11.

*Hab.* in fragmento ligneo salicino pr. Bischofszell Helvetiæ. — Perithecia 300-400  $\mu$ . diam.; asci 110-120  $\approx$  11-14; sporidia 17-22  $\approx$  7-10, constricto-uniseptata, hyalina.

4. **Melanopsamma kansensis** E. et E. New west-Amer. Fung. p. 17, 1558 Erythea Vol. II, 1894.

*Hab.* in cortice *Ulmi americanæ* adhuc vivæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 0,3-0,5 mm. diam.; asci 100-110  $\approx$  10-12; sporidia 18-22  $\approx$  6-8, constricto-1-septata.

5. **Melanopsamma sphærelloides** Wegelin Beitr. Pyr. Schweiz, p. 4, 1859 t. II, fig. 12-13.

*Hab.* in ligno denudato alneo pr. Burgdorf Helvetiæ. — Perithecia 300-360  $\mu$ . diam.; asci 120-150  $\approx$  12-13; sporidia 17-21  $\approx$  8-9, constricto-uniseptata, hyalina.

6. **Melanopsamma Rosæ** Passer. Diagn. Fungh. nuovi V, n. 7. — Peritheciis in ligno vel cortice nigrificato superficialibus, gregariis v. sparsis, globosis, ostiolo minuto, nitidulo, setis raris, longis, continuis, fuliginis, contextu carbonaceo; ascis elongato-clavatis, basi attenuato-stipitatis, apice obtusis, paraphysatis, 8-sporis, 70  $\approx$  6-7; sporidiis subdistichis, fusiformibus, utrinque acutis, medio septatis, non constrictis, hyalinis, 12,5  $\approx$  2,5-3.

*Hab.* in ramis putrescentibus *Rosæ* in horto botanico, Parma Ital. bor. — *Melanopsammam Ruborum* accedere videtur, sed notis allatis diversa.

7. **Melanopsamma buxiformis** (B. et C.) Cooke Grev. XX, pag. 82, 1861 *Sphæria (Pertusæ) buxiformis*, B. et Curt. — Peritheciis sparsis erumpentibus, parvulis, basi innatis, depressis, levibus, nigris; ascis clavatis; sporidiis distichis, elongato-ellipsoideis, 1-septatis, non constrictis 22-26  $\approx$  8, hyalinis.

*Hab.* in ligno denudato in insula Cuba.

8. **Melanopsamma Shimekii** Ell. et Ev. Bull. Univ. Jowa 1893, p. 402. 1862

*Hab.* in ligno indurato, sicco, Ometepe Amer. centr. (SMITH).  
Perithecia 0,7 mm. diam.; asci 150-180  $\times$  12-15; sporidia 48-56  $\times$   
10-12, constricto 1-septata, hyalino-flavida.

9. **Melanopsamma borealis** E. et E. Proceed. Acad. N. Sc. Philadelph. 1863  
1893, p. 445.

*Hab.* in corticibus Newfoundland Amer. bor. (WAGHORN). —  
Perithecia 400-500  $\mu$ . diam.; asci 75-80  $\times$  7-8; sporidia 14-16  $\times$   
5-6, constricta, hyalina.

10. **Melanopsamma nucigena** E. et E. New Fung. Proceed. N. Sc. 1864  
1893, p. 445.

*Hab.* in nucibus dejectis Caryæ, Newfield N. J. Amer. bor. —  
Perithecia 200-250  $\mu$ . alt.; asci 60-70  $\times$  7; sporidia 15-20  $\times$  3,5-4,5,  
triseptata, hyalina. — An *Zignoellæ* species?

11. **Melanopsamma abscondita** E. et E. North Am. Pyr. p. 177. 1865

*Hab.* in interiore nucum dejectarum Caryæ, New Jersey Amer.  
bor. — Perithecia 0,7 mm. diam.; asci 75  $\times$  12; sporidia 20-22  $\times$   
5-6, constricto-uniseptata, hyalina, subinde triseptata. — An potius  
*Zignoellæ* species?

**BERTIA** De Not. — Syll. I, p. 481, IX, p. 687.

1. **Bertia novo-guineensis** Henn. Fung. novoguain. II, p. 37. — Peri- 1866  
theciis confertis v. sparsis, sphæroideis, tuberculatis, griseo-nigris,  
glabris, circ. 5 mm. alt.; ascis longe pedicellatis, fusoido-clavatis,  
octosporis, hyalinis, 90-115  $\times$  10-14; sporidiis arcuato-curvatis, elon-  
gatis, hyalinis 1-septatis, 25-30  $\times$  5-7.

*Hab.* in ligno putri, Nova Guinea.

2. **Bertia Massei** Sacc. *B. macrospora* Masee Journ. of Bot. 1892, 1867  
p. 164, t. 321, f. 9-12.

*Hab.* in ramis dejectis in India occidentali (ELLIOTT). — Peri-  
thecia 0,5 mm. diam.; asci clavati; sporidia 28-30  $\times$  6-7, constri-  
cto 1-septata hyalina.

3. **Bertia fructicola** P. Henn. Hedw. 1894, p. 233. 1868

*Hab.* in fructibus Pangii edulis putridis, Celebes (WARBURG).  
— Perithecia hemisphærica, rugulosa; asci cylindranei 120-150  $\times$   
11-13, octospori; sporidia elongato-fusoidea, 1-septata, hyalina,  
20-25  $\times$  6-8.

**VENTURIA** Ces. et De Not. — Syll. I, p. 587, IX, p. 687.

1. **Venturia asterinoides** E. et M. North Am. Pyr. p. 138. 1869  
*Hab.* in foliis *Quercus laurifoliæ* Florida (MARTIN). — Perithecia 110-140  $\mu$ . diam., setulis 100-200  $\approx$  3; asci 35-40  $\approx$  12-15; sporidia 12-15  $\approx$  3-4, 1-septata, hyalina.
2. **Venturia formosa** Ell. et M. North Am. Pyr. p. 139. 1870  
*Hab.* in foliis vivis *Oleæ americanæ*, Florida Amer. bor. — Perithecia 220-300  $\mu$ . diam., setulis 100-175  $\approx$  5-6; asci 50  $\approx$  20; sporidia 20-23  $\approx$  7-8, 1-septata, flavida.
3. **Venturia Vaccinii** Ell. et Ev. Proc. Acad. Phil. 1894, p. 325. 1871  
*Hab.* in foliis emortuis *Vaccinii ovati*, Washington (PIPER). — Perithecia hypophylla 80-100  $\mu$ . diam., spinulis 30-60  $\mu$ . long.; asci 25-35  $\approx$  6-7; sporidia 10-12  $\approx$  2-2,5, 1-septata, hyalina.
4. **Venturia furcata** Fautr. Rev. Myc. 1892, p. 5. 1872  
*Hab.* in foliis *Juniperi Sabinæ*, Côte-d'Or Galliæ. — Perithecia exigua, flavida, setulis pallidis, bi-trifurcatis; asci 80  $\approx$  8-10; sporidia 8-11  $\approx$  3-4, 1-septata, hyalina.
5. **Venturia macrospora** Rostr. Oest-Grönl. Svampe p. 22. 1873  
*Hab.* in foliis dejectis *Salicis groenlandicæ* in Groenlandia. Perithecia nigro-setosa; asci 100-105  $\approx$  15-20; sporidia 25-29  $\approx$  12-14, hyalina.
6. **Venturia atriseda** Rehm Hedw. 1882, pag. 84, Wint. Pilze II, 1874 p. 433.  
*Hab.* in caulibus siccis *Gentianæ luteæ* et *punctatæ*, in Germania. — Perithecia globosa, minuta, setulis 90  $\approx$  6; asci 60  $\approx$  12 sporidia 18  $\approx$  6, didyma, chlorina.
7. **Venturia Oxyriæ** Rostr. Till. Groenl. Svamp. p. 617 (*Coleroa*). 1875  
*Hab.* in caulibus *Oxyriæ digynæ*, in Groenlandia. — Perithecia prominula, setulosa; asci 65-75  $\approx$  16-17; sporidia 22  $\approx$  8-9, uniseptata, nubilosa.
8. **Venturia Sacchari** v. Breda Rood-Rot. p. 22 (*Coleroa*). 1876  
*Hab.* in foliis *Sacchari* in Java. — Perithecia 70-80  $\mu$ . diam.; asci 25  $\mu$ . long., octospori; sporidia 11  $\approx$  6.

**GIBBERA** Fr. — Syll. I, p. 599, IX, p. 699.

1. **Gibbera salisburgensis** Niessl Hedw. 1887, p. 33. 1877  
*Hab.* in foliis vivis *Ericæ carneæ* pr. Lofer Salisburgi. — Perithecia cæspitosa, subiculo atro-fusco insidentia, globosa, setulosa, nigra; asci 65-80  $\approx$  8-9, sæpius tetraspori; sporidia 1-septata, cuneata, 18-21  $\approx$  5-6, dilute olivacea. — Comparanda cum *Venturia Straussii* Sacc. et R. — Syll. IX, p. 689.

**ERIOSPHÆRIA** Sacc. — Syll. I, p. 397, IX, p. 696.

1. **Eriosphæria analoga** Sacc. Bomm. Rouss. Contr. Myc. Belg. IV, 1878 p. 262.

*Hab.* in ramulis Fagi silvaticæ, in Belgio. — Perithecia 90-120  $\mu$ . diam., setulis 60-110 = 6-9; asci 24-28 = 5-6; sporidia 4-5 = 2,5, uniseptata, hyalina.

2. **Eriosphæria Rehmii** Cavara F. Longob. exsicc. n. 171 c. icone. 1879

*Hab.* in cavo carioso Mori albæ pr. Pavia Italiæ sup. — Perithecia 260-300  $\mu$ . diam.; asci 80-90 = 12-14; sporidia 16-18 = 6-7.

**DIAPORTHE** Nits. — Syll. I, p. 607, IX, p. 702.

I. *Chorostate* Nits.

1. **Diaporthe** (Chor.) **Magnoliæ** E. et E. North Am. Pyr. p. 433. 1880

*Hab.* in ramis emortuis Magnoliæ glaucæ Newfield N. J. Amer. bor. — Perithecia 0,5 mm. diam.; asci 40-50 = 6-7; sporidia 10-12 = 3, 1-septata, subconstricta, hyalina.

2. **Diaporthe** (Chor.) **binoculata** (Ell.) Sacc. — Syll. IX, p. 708. — 1881  
var. **Magnoliæ acuminatæ** Peck 44 Rep. p. 28.

*Hab.* in ramis Magnoliæ acuminatæ, Carrollton Amer. bor. — A typo differt linea stromatica lignum penetrante; sporidiis 15-18 = 7.

3. **Diaporthe** (Chor.) **tuberculosa** (Ellis) Sacc. — Syll. IX, p. 709. — 1882  
var. **dispersa** Peck 44 Rep. p. 28.

*Hab.* in trunco Amelanchieris canadensis, Carrollton Amer. bor. — A typo differt peritheciis paullo majoribus 0,5-0,7 mm. diam., ostiolis sæpe discretis.

4. **Diaporthe** (Chor.) **Pruni** E. et E. New sp. North Amer. Fung. in 1883  
Proceed. Acad. N. Philad. 1893, p. 141.

*Hab.* in ramis emortuis Pruni virginianæ Canada et Jowa Amer. bor. (DEARNESS et HOLWAY). — Perithecia 0,3-0,5 mm. diam.; asci 60-65 = 8-10 (p. sp.); sporidia 15-20 = 3,5-5 utrinque appendiculata, hyalina.

5. **Diaporthe** (Chor.) **aliena** E. et E. New sp. North Amer. Fung. in 1884  
Proceed. Acad. S. N. Philad. 1893, p. 142.

*Hab.* in ramis Cratægi, Canada (DEARNESS). — Perithecia 0,5-0,7 mm. diam.; asci 75-80 = 7-8; sporidia 10-13 = 7-8, uniseptata, constricta, hyalina.

6. **Diaporthe** (Chor.) **Caraganæ** Jaczews. Fungi Rossiaë exsicc. I, n. 5, 1885  
Hedw. 1895, p. (38).

*Hab.* in ramis emortuis Caraganæ arborescentis in prov. Smolensk Rossicæ. — Perithecia subglobosa, stromate valseo collecta, ostiolis præminulis; asci 80  $\approx$  12; sporidia 20  $\approx$  5-6, constricto-1-septata, 4-guttata, hyalina.

7. **Diaporthe** (Chor.) **Amorphæ** E. et E. New west Amer. Fung. 21, 1886 in Eryth. Vol. II, 1894.

*Hab.* in ramis Amorphæ fruticosæ, Kansas Amer. bor. — (BARTHOLOMEW). — Perithecia 0,3-0,5 mm. diam., ostiolis conico-cylindricis, fasciculatis; asci 50-55  $\approx$  6-8; sporidia 8-10  $\approx$  3-4, constricto 1-septata, hyalina.

8. **Diaporthe** (Chor.) **tenella** (Schw.) Starb. Stud. 28, f. 14, *Sphæria* 1887 Schw. Syll. II, p. 420. — Perithecia 400  $\mu$ . diam.; asci 40-50  $\approx$  7-9; sporidia 7-10  $\approx$  2,5-3,5, spurie 1-septata. (In ramis Hibisci rosei) — Secundum Starb. l. c. *Sphæria versatilis* Fr. ad *D. trumellæformem* De Not. (in Corylo) spectat et *Sphæria friabilis* Pers. p. p. ad *Diaph. leiphæmiam* pertinet.

9. **Diaporthe** (Chor.) **staphylina** E. et E. North Am. Pyr. p. 737. 1888

*Hab.* in ramis emortuis Staphyleæ trifoliæ, Canada (DEARNESS). — Perithecia 0,5 mm. diam.; asci 50-55  $\approx$  7-8 (p. sp.); sporidia 12-15  $\approx$  4-5, uniseptata, hyalina.

10. **Diaporthe** (Chor.) **subcongrua** E. et E. North Am. Pyr. p. 425. 1889

*Hab.* in ramis emortuis Aceris, Canada (DEARNESS). — Perithecia 0,3 mm. diam.; asci 50  $\approx$  8-10; sporidia 12-14  $\approx$  3,5-4,5, constricto-1-septata, hyalina.

11. **Diaporthe** (Chor.) **ontariensis** E. et Ev. North Am. Pyr. p. 437. 1890

*Hab.* in ramis Aceris, Canada (DEARNESS). — Perithecia 0,5 mm. diam.; asci 65  $\approx$  12 (p. sp.); sporidia 12-15  $\approx$  6,5, 1-septata, constricta, hyalina.

12. **Diaporthe** (Chor.) **spicata** E. et E. New sp. North Amer. Fung. 1891 in Proceed. Acad. S. N. Philad. 1893, p. 143.

*Hab.* in ramulis emortuis Aceris spicati, Canada (DEARNESS). — Perithecia 250-300  $\mu$ . diam.; asci 40  $\approx$  7 (p. sp.); sporidia 12-13  $\approx$  3-3,5, uniseptata, hyalina.

13. **Diaporthe** (Chor.) **epimicta** E. et E. North Am. Pyr. p. 439, 1892

*Hab.* in ramis emortuis Ilicis verticillatæ, Newfield N. J. Amer. bor. — Perithecia 0,5 mm. diam.; asci 50  $\approx$  8 (p. sp.); sporidia 12  $\approx$  8, 1-septata, utrinque setigera.

14. **Diaporthe** (Chor.) **Araliæ** Ell. et Ev. Proc. Acad. Philad. 1894, 1893 p. 339.

*Hab.* in ramis emortuis Araliæ spinosæ, Nuttallburg West

Va. Amer. bor. (NUTTALL). — Perithecia 0,5-0,7 mm. diam., osti-  
lis brevibus; asci 40-45 = 5-6; sporidia 12-13 = 2,5-3, constricto-  
uniseptata, hyalina.

15. **Diaporthe** (Chor.) **albo-carnis** E. et E. New sp. North Amer. Fung. 1894  
in Proceed. Acad. S. N. Philad. 1893, p. 140.

*Hab.* in ramulis emortuis Corni, Staphyleæ et Ostryæ,  
Canada (DEARNESS). — Perithecia 250  $\mu$ . diam.; asci 75 = 7-8 (p.  
sp.); sporidia 12-20 = 3,5-5, constricto-1-septata (rarius subtrise-  
ptata), interdum fuscilla.

- 16 **Diaporthe** (Chor.) **congener** E. et E. North Am. Pyr. p. 426. 1895

*Hab.* in ramis emortuis Fraxini, Canada (DEARNESS). — Pe-  
rithecia 0,5 mm. diam.; asci 70-75 = 10-12; sporidia 12-14 = 6, con-  
stricto-1-septata-hyalina.

17. **Diaporthe** (Chor.) **stereostoma** Ell. et Ev. Proc. Acad. Phil. 1894, 1896  
p. 338.

*Hab.* in ramis emortuis Symphoricarpi occidentalis, Kan-  
sas Amer. bor. (BARTHOLOMEW). — Perithecia 0,3 mm. diam., ostio-  
lis fasciculatis, 0,5-1 mm. long.; asci 45-50 = 7-8 (p. sp.); sporidia  
10-12 = 3,5-4, constricto-uniseptata, hyalina.

18. **Diaporthe** (Chor.) **calosphærioides** E. et E. New sp. North Am. 1897  
Fung. in Proceed. Acad. S. N. Philad. 1893, p. 142.

*Hab.* in ramis emortuis Sambuci, Canada (DEARNESS). — Pe-  
rithecia 0,5 mm. diam.; asci 50-60 = 8-10 (p. sp.); sporidia 15 =  
3-3,5, tenuiter 1-septata, hyalina, curvula.

19. **Diaporthe** (Chor.) **Sambuci** E. et E. New Fung. Proceed. Acad. 1898  
N. Sc. Philad. 1893, p. 449.

*Hab.* in ramis emortuis Sambuci canadensis, Michigan  
Amer bor. (JOHNSON). — Perithecia 250-350  $\mu$ . diam., ostiolis fa-  
sciculatis, obtusis; asci 40-50 = 7; sporidia 14-16 = 3-3,5, utrinque  
appendiculata, hyalina.

20. **Diaporthe** (Chor.) **tetraptera** Ell. et Ev. Proc. Acad. Phil. 1894, 1899  
p. 339.

*Hab.* in ramis emortuis Halesiæ tetrapteræ, Nuttallburg  
Virginie (NUTTHALL). — Perithecia 0,5 mm. diam., ostiolis dense  
fasciculatis; asci 75-80 = 12; sporidia 19-22 = 5-7, constricto-uni-  
septata hyalina.

21. **Diaporthe** (Chor.) **Halesiæ** Ell. et Ev. Proc. Acad. Phil. 1894, 1900  
p. 339.

*Hab.* in ramis emortuis Halesiæ tetrapteræ Nuttallburg

West Va. (NUTTALL). — Perithecia 0,7 mm. diam., ostiolis fasciculatis; asci 55-60 = 6-7; sporidia 12-15 = 2,5-3, uniseptata.

22. *Diaporthe* (Chor.) *Dircæ* E. et E. New Fung. in Proceed. Acad. 1901 N. Sc. Philad. 1893, p. 448.

*Hab.* in ramis dejectis *Dircæ palustris*, Canada (DEARNESS). — Perithecia 0,3-0,5 mm. diam., ostiolis brevibus; asci 50-60 = 6-7; sporidia 11-13 = 2,5-3, quadrinucleata, hyalina.

23. *Diaporthe* (Chor.) *apiospora* E. et E. New sp. North Amer. Fung. 1902 in Proceed. Acad. S. N. Philad. 1893, p. 140.

*Hab.* in cortice emortuo Ulmi, Canada (DEARNESS). — Perithecia 0,3 mm. diam.; asci 75-80 = 8-10; sporidia 11-15 = 6-10, constricto 1-septata, hyalina.

24. *Diaporthe* (Chor.) *ulmicola* E. et E. New sp. North Amer. Fung. 1903 in Proceed. Acad. S. N. Philad. 1893, p. 141.

*Hab.* in ramis emortuis Ulmi, Canada (DEARNESS). — Perithecia 0,3 mm. diam.; asci 40 = 7; sporidia 8-11 = 3-4, vix constricta, hyalina, 3-4-nucleata.

25. *Diaporthe* (Chor.) *eusticha* E. et Ev. North Am. Pyr. p. 424. 1904

*Hab.* in ramis emortuis Caryæ, Newfield N. J. Amer. bor. — Perithecia 250 mm. diam.; asci 40-50 = 6-7; sporidia 12-15 = 3-3,5, 1-septata, vix constricta, hyalina.

26. *Diaporthe* (Chor.) *Juglandis* E. et E. New Fung. Proceed. Acad. 1905 N. Sc. Philad. 1893, p. 448.

*Hab.* in ramis emortuis *Juglandis cinereæ*, New York Amer. bor. (SHEAR). — Perithecia 400-600  $\mu$ . diam., ostiolis brevibus; asci 90-100 = 8-10; sporidia 15-20 = 7-8 constricto-1-septata hyalina.

27. *Diaporthe* (Chor.) *biconica* (Curr.) Sacc. *Valsa biconica* Currey 1906 Linn. Trans. XXII, fig. 142, Cooke Grev. XX, p. 82.

*Hab.* ad ramos in Britannia. — Perithecia circinata, pustulas minutas in cortice formantia, ostiolis brevibus; sporidia biconoidea, 1-septata, haud constricta, chlorina, 28-30 = 8.

## II. *Euporthe* Nits.

28. *Diaporthe* (Eup.) *micromegala* E. et E. in Proceed. Acad. N. Sc. 1907 Philad. 1893, p. 449.

*Hab.* in caulibus emortuis *Desmodii* (?) Delaware Amer. bor. (COMMONS). — Perithecia 200-300  $\mu$ . diam., ostiolo 1 mm. long.; asci 50 = 20 (p. sp.); sporidia 25-28 = 5-6, non constricta.

29. **Diaporthe** (Eup.) **Raphani** Brun. Fl. myc. Saint et Four. in Bull. 1908  
Soc. Sc. Nat. Fr. p. 217.

*Hab.* in caulibus emortuis Raphani Raphanistri, Saintes Galliæ. — Perithecia exigua, globulosa, longicollia; asci 60-65  $\approx$  8; sporidia 16-18  $\approx$  3, quadriguttulata, hyalina.

30. **Diaporthe** (Eup.) **hyospilina** Sacc. et Flag. Grev. XXI, pag. 65, 1909  
t. 184, fig. 2. — Peritheciis singulis v. paucis hinc inde in folii parenchymate immersis, linea nigra subcirculari cinctis epidermide-que (præcipue inferiori) leniter atrata tectis, globulosis,  $\frac{1}{2}$  mm. diam., ostiolo conoideo, brevissimo, epidermidem vix excedente; ascis fusoidis, sessilibus, 40-50  $\approx$  7-8 octosporis, aparaphysatis, lumine apice bifoveolato; sporidiis distichis, fusoidis, 1-septatis, vix constrictis, 12-14  $\approx$  3, indistincte guttatis, hyalinis.

*Hab.* in foliis dejectis Mahoniæ Aquifolii, Rigny Galliæ (FLAGEOLET). — *D. ceuthosporioidi* affinis sed maculæ stromaticæ minores (1-2 mm. diam.) nec rufæ etc. *Hypsopilam* imitatur.

31. **Diaporthe** (Eup.) **maculans** Sacc. et Flag. Grev. XXI, p. 66, t. 184, 1910  
fig. 3. — Peritheciis singulis v. paucis in areolis elongatis, minutis, sub epidermide nigricata innato-prominulis, globosis, nigris,  $\frac{1}{4}$  mm. diam., ostiolis minutissimis; ascis fusoidis, 40-48  $\approx$  7-8, aparaphysatis, 8-sporis, apice bifoveolatis; sporidiis distichis teretifusoidis, 1-septatis, constrictis, 4-guttatis, 15  $\approx$  4, hyalinis.

*Hab.* in ramis emortuis Berberidis vulgaris, Rigny (FLAGEOLET). — Maculis elongatis, 2-3 mm. long.,  $\frac{1}{2}$  mm. lat., a præcedente præcipue differt, sed utraque forte varietas *D. ceuthosporioidis*.

32. **Diaporthe** (Eup.) **placoides** E. et E. North Am. Pyr. p. 451. 1911

*Hab.* in caulibus emortuis Lactuæ canadensis, Newfield N. J. Amer. bor. — Perithecia 100-150  $\mu$ . diam.; asci 35-40  $\approx$  6; sporidia 7-8  $\approx$  3,5, 3-4-nucleata, hyalina.

33. **Diaporthe** (Eup.) **palustris** Brun. Fl. Myc. Saint. et For. in Bull. 1912  
Soc. Sc. Nat. de l'Ouest. p. 217.

*Hab.* in caulibus emortuis Euphorbiæ palustris, Saintes in Gallia. — Perithecia globulosa, sparsa, brevicollia; asci 60-80  $\approx$  8; sporidia quadriguttata, 16-20  $\approx$  4, hyalina.

34. **Diaporthe** (Eup.) **claviceps** E. et D. North Am. Pyr. p. 738. 1913

*Hab.* in ligno decorticato Ostryæ virginicæ, Canada (DEARNESS). — Perithecia 0,7-1 mm. diam., ostiolis 0,5-1 mm. long.; asci 35-45  $\approx$  4-5; sporidia 11-13  $\approx$  3-4, constrictio-uniseptata, hyalina.

35. **Diaporthe** (Eup.) **Juncaninearum** Rostr. Myk. Meddel. V. p. 216. 1914



312 Pyrenomyceteæ, Sphæriaceæ, Phæodidymæ, Didymosphæria.

*Hab.* in caulibus emortuis Triglochinis palustris, in Dania. — Perithecia plagulas formantia; asci 48 = 15; sporidia hyalino-flavida, 1-septata, 4-guttata, 20-22 = 7-8.

36. **Diaporthe** (Eup.) **incongrua** E. et E. North Am. Pyr. p. 453. 1915

*Hab.* in culmis emortuis Zœæ Maydis, Kentucky et Louisiana Amer. bor. — Perithecia 0,2-0,3 mm. diam., ostiolo 1 mm. long.; asci 40 = 7-8; sporidia 7-10 = 3, constricto-1-septata, hyalino-flavida.

### III. *Tetrastaga* Nits.

37. **Diaporthe** (Tetrast.) **disputata** Bomm. Rouss. Sacc. Contr. Mycol. 1916 Belg. IV, p. 251.

*Hab.* in ramulis emortuis Juniperi Sabinæ, in Belgio. — Perithecia 250-300  $\mu$ . diam. ostiolo brevi; asci 48 = 7-9; sporidia 12-17 = 3-4, uniseptata, hyalina, breve mucronata.

### Sect. 5. Phæodidymæ.

**PHÆOSPHERELLA** Karst. — Syll. IX, p. 723.

1. **Phæosphærella Juncaginearum** (Lasch et Schröt.) Sacc. *Mycosphærella* Schröt. Pilze Schles. II, p. 342, *Dothidea* Lasch. *Asteroma* Rabenh., Syll. III, p. 214 (stat. ster.) 1917

*Hab.* in fructibus, foliis et caulibus Triglochinis in Germania. — Perithecia globulosa 50  $\mu$ . diam.; asci 50-55 = 11-15; sporidia 15-17 = 6-6,5 1-septata, olivaceo-brunnea.

2. **Phæosphærella Typhæ** (Schröt.) Sacc. *Mycosphærella Typhæ* 1918 Schröt. Pilze Schles. II, p. 342.

*Hab.* in foliis emortuis et calamis Typhæ angustifoliæ in Silesia. — Perithecia 130-150  $\mu$ . diam.; asci 60-65 = 17-20; sporidia 17-20 = 5-6,5 constricto-1-septata, olivaceo-brunnea.

3. **Phæosphærella pheidasca** (Schröt.) Sacc. *Mycosphærella* Schröt. 1919 Pilze Schles. II, p. 342.

*Hab.* in calamis Junci Leersii in Silesia. — Perithecia punctiformia, globulosa; asci 40-45 = 17-22; sporidia 20-24 = 5,5-6 constricto-1-septata, olivaceo-brunnea.

**DIDYMOSPHERIA** Fuck. — Syll. I, p. 701, IX, p. 728.

1. **Didymosphæria Clematidis** Fautr. Rev. Myc. 1893, p. 17. 1920

*Hab.* in caulibus Clematidis Vitalbæ, Côte-d'Or Galliæ. — Perithecia gregaria; asci 100 = 5-6; sporidia 10-12 = 4, constricto-1-septata, flava.

2. **Didymosphæria Drabæ** Rostr. Bidr. Ascom. Dovr. p. 8. 1921  
*Hab.* in caulibus emortuis *Drabæ hirtæ* in Groenlandia. — *Perithecia hemisphærica*, pertusa; asci 75-100 = 15; sporidia 35-40 = 6-7, flavida.
3. **Didymosphæria Tecomæ** (Berk. et Curt.) Cooke Grev. XX, p. 82, 1922  
*Sphæria Tecoma* B. et C. in Herb. — Caulicola, sparsa, tecta; peritheciis innatis, minutis, subglobosis, papillatis, atris; ascis clavatis, octosporis; sporidiis elliptico-fusiformibus, biserialibus, uniseptatis, fuscis, 10-12 = 4.  
*Hab.* in sarmentis *Tecomæ radicans* in Carolina Amer. bor. — *Sphæria Micheneri* B. et C. in Herb. Kew. videtur eadem species, immatura.
4. **Didymosphæria manitobensis** E. et E. North Am. Pyr. p. 732. 1923  
*Hab.* in foliis *Rubi*, Manitoba Amer. bor. (DEARNESS). — *Perithecia* 150-200  $\mu$ . diam.; asci 65-75 = 8-10; sporidia 12-15 = 4-5 1-septata, brunnea.
5. **Didymosphæria Cassiopes** Rostr. Oest. Grönl. Svampè p. 22. 1924  
*Hab.* in foliis siccis *Cassiopes tetragonæ* in Groenlandia. — *Perithecia* 0,5 mm. diam., globoso-papillata. Asci 40 = 18-20 sporidia constricto-1-septata, fusca, 18-24 = 7-8.
5. **Didymosphæria vagans** E. et E. New Fung. in Proceed. Acad. N. Se. Philad. 1893, p. 446. 1925  
*Hab.* in ramis emortuis *Ostryæ*, *Caryæ* et *Ulmi*, Canada (DEARNESS). — *Perithecia* 0,2-0,2 mm. diam.; asci 100-110 = 12; sporidia 15-20 = 9-11, 1-septata, brunnea.
6. **Didymosphæria populifolia** Ell. et Ev. Proc. Acad. Phil. 1894, p. 335. 1926  
*Hab.* in foliis dejectis *Populi angulatæ*, Canada (DEARNESS). — *Perithecia* 80-100  $\mu$ . diam.; asci 65-75 = 8-10; sporidia 12-14 = 3,5-4,5 1-septata, brunnea.
7. **Didymosphæria graminicola** E. et E. New west-Amer. Fung. 19, 1927  
*Erythea* Vol. II, 1894.  
*Hab.* in culmis emortuis *Panici virgati*, Kansas (BARTHOLOMEW). — *Perithecia* 0,2-0,3 mm. diam.; asci 40-50 = 6-7; sporidia 8-9 = 4 constricto-1-septata, brunnea.
8. **Didymosphæria Ammophilæ** Fautr. et Roum. Rev. Myc. 1892, p. 4. 1928  
*Hab.* in foliis *Ammophilæ arenariæ cultæ*, Côte-d'Or Galliæ. — *Perithecia* perexigua; asci 40-45 = 6-8; sporidia 8-10 = 3 1-septata, mellea.
9. **Didymosphæria Arundinariæ** E. et E. North Am. Pyr. p. 732. 1929  
*Hab.* in culmis emortuis *Arundinariæ*, Louisiana Amer.

bor. (LANGLOIS). — Perithecia 0,3 mm. diam.; asci 50-70 × 12-15 (p. sp.); sporidia 16-25 × 5-6 1-septata, flavo-brunnea.

**MASSARIELLA** Speg. — Syll. I, p. 716, IX, p. 739.

1. **Massariella Xanthoxyli** Peck 46 Rep. p. 36. 1930

*Hab.* in ramis *Xanthoxyli americani*, Mechanicville Amer. bor. — Perithecia 0,5-0,7 mm. diam.; asci 8-spori; sporidia 60-70 × 10-12 1-septata, hyalina dein colorata.

2. **Massariella exigua** Jaczews. Bull. Herb. Boiss. II, p. 664. 1931

*Hab.* in ramis *Sambuci racemosæ*, Berne Helvetiæ (OTTH). — Perithecia globulosa, exigua; asci 85 × 12; sporidia 20 × 4, 1-septata, chlorina, halone mucoso obducta « Vix hujus generis ».

3. **Massariella microspora** (Otth) Jaczews. Bull. Herb. Boiss. II, p. 665. 1932

*Hab.* in ramis emortuis *Aceris campestris*, Berne Helvetiæ (OTTH). — Perithecia globoso-depressa, tecta; asci cylindranei; sporidia 17-19 × 6, uniseptata, brunnea. « Potius *Didymosphæria* ».

4. **Massariella Rosæ** (Otth) Jaczews. Bull. Herb. Boiss. II, p. 667. 1933

*Hab.* in ramis *Rosæ*, Berne Helvetiæ (OTTH). — Perithecia globoso-depressa, tecta; asci cylindranei; sporidia 17-20 × 6-7, uniseptata, non constricta, brunnea. « Potius *Didymosphæria* ».

5. **Massariella Lilacis** (Otth) Jacz. Bull. Herb. Boiss. II, p. 667, 1934

*Cladosphæria* Otth \*) in Mittheil. Bern, 1871, p. 105.

\*) Cl. ARTH. DE JACZEWSKY, qui in sua opella de Massariaceis helveticis (*Monographie des Massariées de la Suisse* in Bull. Herb. Boiss. 1894, p. 661) pluries citat clarum mycologum helveticum G. OTTH, silet de loco et titulo ejusdem contributionum mycologicarum, quæ revera et me et mycographos plures, ne dicam omnes, hucusque omnino latuere. Insertæ sunt in *Mittheilungen der naturforschenden Gesellschaft in Bern* et earum, quas modo comparare potui tituli sequuntur:

G. OTTH, *Ueber die Pilzgattung Nyctalis* (1857, p. 139) — *Ueber die Brand- und Rostpilze* (1861, p. 57) — *Vierter Nachtrag zu dem in N. 15-23 der Mittheilungen enthaltenen Verzeichniss schweizerischer Pilze* (1863, p. 70) — *Fünfter Nachtrag etc.* (1865, n. 155) — *Sechster Nachtrag etc.* (1868, p. 37) — *Siebenter Nachtrag zu dem in der Mittheilungen vom Jahr 1844 enthaltenen Verzeichnisse schweizerischer Pilze und Fortsetzung der Nachträge vom Jahr 1846, 1850, 1857, 1863, 1865 et 1868* (1871, p. 88).

Plurimæ sunt species novæ et sat fuse descriptæ, quæ in contributionibus citatis occurrunt et quæ neotericis fere omnino ignotæ sunt. Nec dicerem omnes novitates Otthianas sistere bonas species; sed omnes certe jure meritoque sedulo inquirendæ et comparandæ sunt. Id vero ad specimina originalia, aggredi suscepit cl. de JACZEWSKY in opella citata, sed critica plenior et acutior et citationes copiosiores (præsertim laboris Otthiani!) desiderantur.

*Hab.* in ramis *Syringæ vulgaris*, Berne Helvetiæ (OTTH).  
— Asci cylindranei; sporidia 18-22  $\approx$  11, 1-septata, brunnea. « Potius *Didymosphæria* ».

6. **Massariella lantanicola** (Otth) Jacz. Herb. Boiss. II, p. 667, *Cla-* 1935  
*dosphæria* Otth in Mittheil. Bern. 1870, p. 106.

*Hab.* in ramis *Viburni Lantanae*, pr. Berne Helvetiæ. —  
Asci cylindranei; sporidia 18-22  $\approx$  9-10, 1-septata, fusca. Potius  
*Didymosphæria*.

**PROTOVENTURIA** Berl. et Sacc. — Syll. IX, p. 741.

1. **Protoventuria minor** Sacc. Bomm. Rouss. Contr. Myc. Belg. IV, 1936  
p. 263.

*Hab.* in ramis *Sarothamni scoparii*, Ebly Belgii (MARCHAL).  
— Perithecia ovoidea 70-90  $\mu$ . lat. 90-120  $\mu$ . alt., setulae 40  $\approx$  6;  
asci 60-65  $\approx$  18-21; sporidia 21-24  $\approx$  8-10, 1-septata, fuliginea (sub-  
inde simulate 3-septata).

2. **Protoventuria Chusqueæ** Pat. Bull. Boiss. 1895, p. 69, t. II, f. 5. 1937

*Hab.* in culmis emortuis *Chusqueæ*, San Jorgie Æquatoriæ.  
— Perithecia subglobosa 0.7-1 mm. diam., setosa; asci 150-200  $\approx$   
30-40; sporidia 70-75  $\approx$  12, brunnea, constricta, 1-septata.

**AMPHISPHERIA** Ces. et De Not. — Syll. I, p. 718, IX, p. 741.

1. **Amphisphæria Saccardiana** Tognini Contr. Mic. Tosc. p. 9. 1938

*Hab.* in cortice vetusto *Pruni Cerasi* in Etruria. — Peri-  
thecia 130  $\mu$ . lat.; asci 63  $\approx$  23; sporidia 18  $\approx$  9, fuligineo-olivacea,  
1-septata.

2. **Amphisphæria Platani** E. et Ev. North Am. Pyr. p. 205. 1939

*Hab.* in cortice secedenti *Platani*, Louisiana Amer. bor.  
(LANGLOIS). — Perithecia 0.5 mm. diam.; asci 40-50  $\approx$  10-12 (p.  
sp.); sporidia 11-15  $\approx$  4-5, 1-septata, atrobrunnea.

3. **Amphisphæria Langloisii** E. et E. North Am. Pyr. p. 205. 1940

*Hab.* in ramis dejectis *Caryæ?*, Louisiana Amer. bor. (LAN-  
GLOIS). — Perithecia 1 mm. diam.; asci 100-125  $\approx$  15-20 (p. sp.);  
sporidia 30-40  $\approx$  10-12, 1-septata, brunnea.

4. **Amphisphæria nuda** E. et Ev. New west Amer. Fung. 18, in Ery- 1941  
thea Vol. II, 1894.

*Hab.* in cortice *Celtidis occidentalis*, Kansas (BARTHO-  
LOMEW). — Perithecia 0.5-0.7 mm. diam.; asci 100-110  $\approx$  15; spo-  
ridia 15-18  $\approx$  6-8, 1-septata, brunnea.

5. **Amphisphæria dolioloides** Rehm, in Wegelin Beitr. Pyr. Schweiz. 1942  
p. 5, t. II, f. 18-20.

*Hab.* in ramulis decorticatis pineis pr. Burgdorf Helvetiae.

— Perithecia 0,6 mm. diam.; asci 125-145 = 25-34; sporidia 34-39 = 14-15, constricto 1-septata, brunnea.

6. **Amphisphaeria helvetica** Wegelin Beitr. Pyren. Schw. p 4, t. II, 1943 f. 16-17.

*Hab.* in ligno pineo nudo pr. Bischofszell et Heinicswyl Helvetiae. — Perithecia 0,5 mm. diam.; asci 170-200 = 20-22; sporidia 33-40 = 12-15, 1-septata, atrobrunnea.

7. **Amphisphaeria deformis** Ell. et Langl. North Am. Pyr. p. 202. 1944

*Hab.* in ligno denudato Thujæ, Louisiana Amer. bor. (LANGLOIS). — Perithecia 0,3 mm. diam.; asci 75 = 7-8; sporidia 8-10 3,5-4, 1-septata, brunnea.

8. **Amphisphaeria abiogna** Lamb. et Fautr. Rev. Myc. 1894, p. 75, 1945

tab. CL f. 3. — Peritheciis sparsiusculis, solitariis, superficialibus; ascis clavatis; sporidiis bi-seriatis v. confertis, cylindraceutis, curvulis, 1-septatis, fuligineo-pallidis, 4-guttatis, 12-16 = 4.

*Hab.* ad ligna abiogna, Côte-d'Or in Gallia.

9. **Amphisphaeria Cocos** Roll. Bull. Soc. Mycol. 1891, p. 211, t. XIV, 1946 fig. 2.

*Hab.* ad petiolos Cocos nuciferæ, Golfe Jouan Galliae merid. — Perithecia 0,5 mm. diam.; asci 90 = 10; sporidia 12-18 = 5, 1-septata, fusca.

10. **Amphisphaeria incrustans** Ell. et Ev. North Am. Pyr. p. 201. 1947

*Hab.* in lignis putridis, Nebraska et Kansas Amer. bor. — Perithecia 250-300  $\mu$ . diam.; asci 70-75 = 12-15; sporidia 22-27 = 7-8 1-septata, brunnea.

11. **Amphisphaeria macropoda** Sacc. Fungi Abyss. p. 4, t. XX, f. 5. 1948

— Peritheciis hinc inde confertis, ligno decorticato basi insculptis, opace atris, globulosis, glabris, breve acutiuscule papillatis, 0,5 mm. diam.; ascis clavatis, apice rotundatis, 36-40 = 6 p. sporif., in pedicellum prælongum, 45-50  $\mu$ . long. filiformem attenuatis, 8-sporis; sporidiis distichis, oblongo-fusoidis, utrinque obtusulis, 11-13 = 4-4,5, rectis, constricto 1-septatis, fuligineis, minute guttulatis v. eguttulatis; paraphysibus filiformibus ascum æquantibus, subinde furcatis.

*Hab.* in ligno aeri diu exposito, M. Dongolle pr. Ghinda col. Erythrææ. — Sporidiis minutis ascisque longe stipitatis dignoscenda species.

**DELITSCHIA** Auersw. — Syll. I, p. 732, IX, p. 747.

1. **Delitschia geminisporea** Sacc. et Flag. Grev. XXI, p. 66, t. 184, 1949  
fig. 5. — Peritheciis hinc inde gregariis, basi adnata superficialibus globoso-papillatis nigris,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. diam., glabris, carbonaceis, ostiolo rotundo exiguo pertusis; ascis tereti-clavatis, 150-160  $\approx$  30, brevissime stipitatis, apice rotundatis, bisporis; paraphysibus filiformibus, copiosis; sporidiis ellipsoideis, constricto 1-septatis, 50-60  $\approx$  30, grosse bi-guttatis, fuligineis, oculis obtuse conoideis, subinde tandem secedentibus.

*Hab.* in fragmentis ligneis quercinis putridis (an stercoratis), Rigny Galliæ (FLAGEOLET). — Eximia et distincta species.

**NEOPECKIA** Sacc. (1883). Syll. IX, p. 749, *Didymotrichia* Berl. Descr. nuovi gen. Pyr. p. 5 (Atti Congr. bot. Genov. 1892). — Cum typus meæ *Neopeckia* sit *N. Coulleri* (Peck), quæ typum quoque sistit *Didymotrichia* Berl., manifeste hoc postremum genus ut synonymon habendum est. Potius hoc nomen servari poterit *Neopeckia* speciebus, quæ non pilis longis flexuoso-dilabentibus, sed setulis brevibus vestitæ sunt, ut *N. fulcita*; quod tamen autopsia confirmandum.

1. **Neopeckia diffusa** (Schw.) Starb. Stud. p. 30, f. 17, *Sphæria* Schw. 1950  
Syll. II, p. 403, IX, p. 747 *Didymotrichia* Berl. l. c. t. XXII, fig. 3. — Perithecia 300  $\mu$ . diam.; hyphæ subiculi 5  $\mu$ . cr.; asci 60-70  $\approx$  10-12; sporidia fusca, 1-septata, 16-20  $\approx$  6-7.

Ad hoc quoque genus, observante Berlesio l. c., spectat: **Neopeckia rhodosticta** (B. et Br.) Sacc. *Lasiosphæria* Sacc. Syll. II, p. 213, *Didymotrichia* Berl. l. c. nec non **Neopeckia parietalis** (B. et C.) Sacc. *Enchnosphæria* Sacc. Syll. II, p. 207, *Didymotrichia* Berl. l. c.

**RHYNCHOSTOMA** Karst. — Syll. I, p. 730, IX, p. 750.

1. **Rhynchostoma Julii** Fabr., Syll. I, p. 731. — Var. **vestitum** Rehm 1951  
in Hedw. 1891, p. 256.

*Hab.* in lignis putrescentibus in Helvetia. — Perithecia 500  $\mu$ . lat. 300  $\mu$ . alt., rostro 300  $\mu$ . long.; asci 220-230  $\approx$  16-17; sporidia 20-30  $\approx$  11-12, constricto-1-septata-fuliginea.

**OTTHIA** Nits. — Syll. I, p. 735, IX, p. 752.

1. **Otthia amica** Sacc. Bomm. Rouss. Contr. Myc. Belg. p. 244. 1952

*Hab.* in ramis emortuis *Buxi* sempervirentis in Belgio.

- Perithecia 300  $\mu$ . diam.; asci 150-270  $\times$  12-20; sporidia 22-30  
11-15, 1-septata, fuliginea, strato hyalino tenuissimo obducta.
2. **Othia ostryogena** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1953  
p. 133.  
*Hab.* in ramis emortuis *Ostryæ virginicæ*, Canada (DEAR-  
NESS). — Perithecia 0,3-0,5 mm. diam.; asci 100-120  $\times$  15; spori-  
dia 20-25  $\times$  11-13, constricto-1-septata, brunnea.
3. **Othia quercicola** E. et E. North Am. Pyr. p. 250. 1954  
*Hab.* in ramis emortuis *Quercus albæ*, Newfield N. J. Amer.  
bor. — Perithecia 150  $\mu$ . diam.; asci 75-80  $\times$  18-20; sporidia 18-  
22  $\times$  8-10, demum flavido-brunnea.

**ENDOXYLINA** Rom. Några ord om *Sph. astroidea* p. 173, (Etym.  
ab *Endoxyla*). Stroma *Endoxylæ* v. *Eutypæ*, sed sporidia 1-se-  
ptata, fusca.

1. **Endoxylina stellulatæ** Rom. l. c. *Valsaria* Romell in Sacc. Syll. 1955  
IX, p. 757.
2. **Endoxylina quercicola** (Berk.) Sacc. *Camarops quercicola* B. et 1956  
Cooke Grev. XX, p. 81, *Eutypa quercicola* Berk. in Herb. —  
Stromate innato corticis substantia formato; peritheciis gregariis.  
subglobosis, immersis, prominulis, pertusis; ascis clavatis, longe sti-  
pitatis, octosporis; sporidiis lanceolatis, uniseptatis, medio constri-  
ctis, fuscis, 20  $\times$  4.  
*Hab.* in corticibus *Quercus* in Carolina sup. Amer. bor.

**VALSARIA** Ces. et De Not. — Syll. I, p. 741, IX, p. 755.

1. **Valsaria staphylina** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1957  
p. 144.  
*Hab.* in ramis emortuis *Staphyleæ trifoliæ*, Canada (DEAR-  
NESS). — Perithecia subcircinata 300-350  $\mu$ . diam.; asci 80-90  $\times$  7;  
sporidia 12-15  $\times$  7-8, constricto-1-septata, fuliginea.
2. **Valsaria allantospora** Ell. et Ev. Proc. Acad. Phil. 1894, p. 343. 1958  
*Hab.* in ramis emortuis *Negundinis aceroidis*, Kansas  
Amer. bor. (BARTHOLOMEW). — Perithecia 0,7-1 mm. diam.; 55-62  
 $\times$  8-10; sporidia 12-15  $\times$  3-3,5, curvula 1-septata, brunnea.
3. **Valsaria cornicola** E. et E. North Am. Pyr. p. 741. 1959  
*Hab.* in ramis emortuis *Corni*, Canada (DEARNESS). — Peri-  
thecia 250  $\mu$ . diam.; asci 65-75  $\times$  7-8; sporidia constricto-1-septata  
9-12  $\times$  4,5-5,5 brunnea.
4. **Valsaria Akebiæ** E. et E. North Am. Pyr. p. 557. 1960

*Hab.* in caulibus emortuis *Akebiæ* *quinatæ*, Newfield N. J. Amer. bor. — *Perithecia* 200  $\mu$ . diam.; asci 100-110  $\times$  8-10; sporidia 12-18  $\times$  5-6 brunnea, 1-septata.

5. **Valsaria hypoxyloides** Ell. et Ev. Journ. Myc. 1892, VII, p. 131. 1961

*Hab.* in cortice arborum, Paraguay (MORONG). — *Perithecia* 250  $\mu$ . long.; asci 90-115  $\times$  12; sporidia uniseptata 12-15  $\times$  7-9 fuliginea. Halitus fere *Hypoxyli fusci*.

6. **Valsaria spurca** (B. et C.) Cooke Grev. XX, p. 81, *Sphæria* Berk. 1962

et Curt. in Herb. Berk. — Pustulata, epidermide tecta dein erumpens; ascis clavatis; sporidiis ellipsoideis, 1-septatis, leviter constrictis, 25-30  $\times$  8-10, brunneis, strato hyalino crasso obductis.

*Hab.* in corticibus in America bor. (MURRAY).

**XYLOBOTRYUM** Pat. Bull. herb. Boiss. 1895, p. 69 (Etym. *xylon* lignum et *botrys* racemus). — Stroma erectum subteres, carbonaceo-coriaceum. *Perithecia* libera, apice stromatis botryoso-aggregata; asci 8-spori; sporidia ovalia, 1-septata, fuliginea.

1. **Xylobotryum andinum** Pat. Bull. Boiss. p. 69, t. II, fig. 2, 1895. 1963

*Hab.* in ligno decorticato putri, San Jorgie Æquatoriæ. — Stroma 4-8 mm. alt., simplex vel ramosum 1-2 mm. cr.; *perithecia* 0,3-0,5 mm. long.; asci 90-100  $\times$  10; paraphyses 150  $\mu$ . long.; sporidia 10-13  $\times$  3-4, fusco-brunnea.

### Sect. 6. Phæophragmiæ.

**MASSARIA** De Not. — Syll. II, p. 2, IX, p. 759.

1. **Massaria berberidicola** (Otth) Jaczews. Bull. Herb. Boiss. II, p. 673, 1964

*Cladosphæria* Otth in Mitth. Bern. 1871, p. 105.

*Hab.* in ramis *Berberidis vulgaris*, Thoune et Berne Helvetiæ (OTTH). — *Perithecia* globosa, immersa; asci 180  $\approx$  25; sporidia brunnea, 34-38  $\approx$  12-14, constricto 3-septata, verrucosa, mucro hyalino obducta.

2. **Massaria heterospora** Otth in Mitth. Bern, 1869, p. 48, Jaczews. 1965  
Bull. Herb. Boiss. II, p. 676.

*Hab.* in ramis *Tiliæ parvifoliæ* pr. Berne Helvetiæ (OTTH). — *Perithecia* globoso-depressa; asci 200  $\approx$  30; sporidia 44-55  $\approx$  13-16, fusca, bipartita, parte super. 1-3-septata, infer. 1-2-septata, mucro hyalino obvoluta.

3. **Massaria Otthii** Jacz. Bull. Herb. Boiss. II, p. 683, *Cladosphæria* 1966

*Corni* Otth in Mittheil. Bern. 1871, p. 107.



*Hab.* in ramis Corni maris, Berne Helvetiæ. — Perithecia tecta, globoso-depressa; asci 200  $\approx$  12-13, subsossiles; sporidia 21-28  $\approx$  8-10, brunnea, 3-septata, non constricta.

4. **Massaria bicolor** Jaczews. Bull. Herb. Boiss. II, p. 669, *M. Fu.* 1967  
*ckelii* Otth Mitth. Bern. 1868, p. 50.

*Hab.* in ramis Tiliæ, Berne Helvetiæ (Оттн). — Asci cortice innati; asci clavati; sporidia 20-25  $\approx$  9-10, triseptata, strato hyalino obveluta, loculis binis inter. brunneis, externis hyalinis.

5. **Massaria subpustulosa** (Otth) Jaczews. Bull. Herb. Boiss. II, p. 681 1968  
*Cladosphæria* Otth in Mittheil. Bern. 1871, p. 108:

*Hab.* in ramis Fagi pr. Berne Helvetiæ (Оттн). — Perithecia tecta, gregaria; asci teretes, subsessiles, 150  $\approx$  10; sporidia 18-23  $\approx$  8-9, 3-septata, non constricta, brunneola, strato tenui hyalino obducta.

6. **Massaria Saccardiana** Jaczews. Bull. Herb. Boiss. II, p. 683. 1969

*Hab.* in ramis Ribis alpini pr. Neuchâtel (MORTIER). — Perithecia sparsa, tecta, globoso-lenticularia, papillata; asci 125-130  $\approx$  10-12, paraphysati; sporidia 16  $\approx$  6, brunnea, 3-septata, non constricta, strato mucoso non indicato. Cum mea *Metasphæria Massarina* nil commune habet, sed potius *Leptosphæriæ* species videtur.

7. **Massaria platanicola** Nitschke in Otth Mitth. Bern, 1868, p. 50, 1970  
Jaczews. Bull. Herb. Boiss. II, p. 681 *Cladosphæria minutula* Otth.

*Hab.* in ramis Platani, Aceris, Tiliæ pr. Berne Helvetiæ (Оттн). — Perithecia globoso-depressa, minuta; asci clavati subsessiles; sporidia 21-23  $\approx$  5-6, constricto-3-septata, brunnea, strato mucoso non indicato. « An diversa a *Leptosphæria vagabunda* Sacc.? »

8. **Massaria Hippophaes** (Sollm.) Jaczews. Bull. Herb. Boiss. II, p. 684 1971  
*Sphæria* Sollm. Syll. II, p. 343 (nomen), *Cladosphæria* Nitschke.

*Hab.* in ramis Hippophaes, Berne Helvetiæ (Оттн). — Perithecia tecta, globoso-lenticularia; asci 135  $\approx$  10; sporidia 3-septata, haud constricta, brunnea, 15-22  $\approx$  7,5-9, strato hyalino non indicato. « Potius *Leptosphæria* ».

9. **Massaria fagicola** Allesch., Syll. IX, p. 760, teste ipso auctore, non est diversa a *M. macrospora*.

**CLADOSPHÆRIA** Nitschke, sec. Jaczewski Bull. Herb. Boiss. II, p. 685, (Etym. *clados* ramus et *Sphæria*). — Perithecia cortice innata, globoso-lenticularia, vix ostiolo papillato erumpentia; asci fusoides,

Pyrenomyceteæ, Sphæriaceæ, Phæophragmiæ, Leptosphæria. 321  
paraphysati, pedicellati; sporidia cylindræa, arcuata, 7-septata,  
non constricta, brunnea.

1. **Cladosphæria eunomioides** (Otth) Nitschke apud Otth in Mittheil. 1972  
Naturf. Gesellsch. Bern. 1871, p. 110, Jacz. l. c.

*Hab.* in ramis Fraxini pr. Bernæ Helvetiæ (Otth). — Sporidia, 22-28 = 5-6, in medio asco, *Valsæ* ad instar, stipata.

**LEPTOSPHERIOPSIS** Berl. Icon. fung. I, p. 88 (Etym. a *Leptosphæria*, cui affinis). — Perithecia et asci *Leptosphæriæ*; sporidia cylindræa intra ascum apicibus per paria connexa et tunc octona et longe bacillaria evadentia, extra ascum secedentia et tum 16, breviora, 7-septata, evadentia.

1. **Leptosphæriopsis ophioboloides** (Sacc.) Berl. l. c. t. LXXXI, f. 1. 1973  
*Leptosphæria* Sacc. Syll. IX, p. 770.

**LEPTOSPHERIA** Ces. et De Not. — Syll. II, p. 13, IX, p. 762, I.

I. Sporidia 2-3-septata.

1. **Leptosphæria melanommoides** Fautr. Rev. Myc. 1891, p. 128.

*Hab.* in caulibus emortuis Petroselini, Côte-d'Or Galliæ. 1974  
— Perithecia globulosa mox denudata; asci 90-100 = 9-10; sporidia 20-25 = 5,5-6, triseptata, pallide fuliginea.

2. **Leptosphæria brachyasca** Rostr. Till. Grönl. Svamp. p. 618.

*Hab.* in caulibus et foliis Saxifragæ oppositifoliæ in 1975  
Groenlandia. — Perithecia 75-85  $\mu$ . diam.; asci 40-45 = 15-20; sporidia 3-septata, fusca, 15-18 = 5-6.

3. **Leptosphæria Phaseoli** Fautr. et Roum. Rev. Myc. 1892, p. 6.

*Hab.* in caulibus siccis Phaseoli vulgaris, Côte-d'Or Galliæ. 1976  
— Perithecia subglobosa, nitidula; asci 95-100 = 6-8; sporidia 33-39 = 3,5-4 olivacea, 3-septata.

4. **Leptosphæria Solani** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1977  
p. 136.

*Hab.* in foliis vivis Solani Dulcamaræ, Canada (DEARNESS).  
— Perithecia 150  $\mu$ . diam.; asci 55-60 = 8; sporidia 16-20 = 2,5-3  
flavida, constricto-3-septata.

5. **Leptosphæria Opizii** Nits., in Schröt. Pilze Schles. II, p. 358.

*Hab.* in caulibus emortuis Solani Dulcamaræ, in Silesia. 1978  
— Perithecia 0,3-0,4 mm. diam.; asci 80-100 = 8-9; sporidia 3-septata, flavo-brunnea, 15-17 = 4,5-5.

6. **Leptosphæria Picridis** Fautr. et Lamb. Rev. Myc. 1894, p. 75. — 1979  
Peritheciis gregariis, atris, obtectis, ostiolo emergentibus; ascis cla-

- 322 Pyrenomycetæ, Sphæriaceæ, Phæophragmiæ, Leptosphæria.  
 viformibus, curve pedicellatis; sporidiis sæpe biseriatis, fusiformi-  
 bus, obtusis, 3-septatis, ex hyalino flavo-brunneis, 20-22 × 6-8.  
*Hab.* ad caules Picridis hieracioidis, Côte-d'Or in Gallia.
7. **Leptosphæria Rumicis** Fautr. Rev. Myc. 1891, p. 168. 1980  
*Hab.* in caulibus emortuis Rumicis Patientiæ, Côte-d'Or Gallia. — Perithecia depressa, late pertusa; asci 100 × 20; sporidia 20 × 6, 3-septata fuliginea.
8. **Leptosphæria Sarothamni** Lamb. et Fautr. Rev. Myc. 1893, p. 115. 1981  
*Hab.* in ramulis Sarothamni scoparii, Morvan Gallia. — Perithecia subcoriacea, inæqualia; asci 80 × 10; sporidia 20 × 4 flavido-brunnea, constricto 3-septata.
9. **Leptosphæria borealis** E. et E. North Am. Pyr. p. 353. 1982  
*Hab.* in ramis decorticatis Salicis, Montana Amer. bor. (KEL-  
 SBY). — Perithecia 0,3-0,5 mm. diam; asci 150-170 × 8; sporidia 18-22 × 5-7, 3-septata, brunnea.
10. **Leptosphæria Ribis** Karst. in Rev. Myc. 1892, p. 172. 1983  
*Hab.* in ramulis vivis Ribis alpini, Côte-d'Or (ROLLAND). — Pe-  
 rith. tecta, minuta; asci 50 × 10; sporidia 14-16 × 4 3-septata, flavida.
11. **Leptosphæria Sambuci** Fautr. Rev. Myc. 1892, p. 7. 1984  
*Hab.* in ramulis siccis Sambuci nigræ, Côte-d'Or Gallia. — Perithecia spherica, vix erumpentia; asci 100-200 × 8; sporidia 20-23 × 8 constricto-3-septata, olivacea.
12. **Leptosphæria revocans** Sacc. *Leptosphæria melanommoides* Berl. 1985  
 Ic. fung. I, p. 54, t. 40, f. 2 (1892) nec Fautr. (1891).  
*Hab.* in ramis emortuis Buxi sempervirentis in Belgio (MARIA ROUSSEAU). — Perithecia sparsa 0,3-0,5 mm. diam.; asci 65-75 × 10-12; sporidia 14-16 × 5-6, constricto-3-septata, atro-olivacea.
13. **Leptosphæria faginea** Passer. Diagn. fung. nuovi, V, n. 9. — Peri- 1986  
 theciis sparsis vel subgregariis, tectis, in cortice nidulantibus, glo-  
 bosso-depressis, atris, ostiolo papillato, epidermidem vix perforante;  
 ascis subclavatis, paraphysatis, 8-sporis, 35-40 μ. longis; sporidiis  
 stipatis, cylindricis, utrinque obtusis, rectis vel curvulis, 3-septatis,  
 ad septa constrictis, castaneo-fuscis, 12 × 2,5-3.  
*Hab.* in ramulis emortuis Fagi, alla Cisa Appennini Par-  
 mensis. — *Leptosphærice Avellanæ* H. Fabr. proxima, sed ascis  
 sporidiisque multo minoribus etc. diversa.
14. **Leptosphæria viticola** Fautr. et Roum. Rev. Myc. 1892, p. 6. 1987  
*Hab.* in sarmentis Vitis viniferæ, Côte-d'Or Gallia. — Pe-  
 rithecia rugulosa dein collabentia; asci 60-65 × 8-10; sporidia 16-  
 18 × 4, rarius 22 × 6, constricto-3-septata, olivacea.

15. **Leptosphæria concentrica** E. et E. North Am. Pyr. p. 354. 1988  
*Hab.* in foliis Piri Mali, Columbia et Louisiana Amer. bor.  
 — Perithecia maculicola; asci 50-55 = 10 (p. sp.); sporidia 12-14 = 4-5, flavido-brunnea, 2-septata.
16. **Leptosphæria Juniperi** Fautr. Rev. Myc. 1895, p. 70, t. 153, f. 6. 1989  
*Hab.* in ramulis siccis Juniperi communis, Côte d'Or Galliaë.  
 — Perithecia globosa papillata; asci 70-80 = 12-15, sporidia 18-20 = 6, triseptata, non constricta.
17. **Leptosphæria Lilii** E. et Dear. in Proceed. Acad. S. N. Philad. 1900  
 1893, p. 136.  
*Hab.* in foliis Lilii superbi, Canada (DEARNESS). — Perithecia 150-200  $\mu$ . diam.; asci 50-60 = 7; sporidia 3-septata, 15-18 = 3 flava; adest spermogonium: *Phyllosticta Lilii* Ell. et Dearn. l. c. sporulis 4-5 = 2-3, hyalinis.
18. **Leptosphæria Kunzeana** Berl. Ic. fung. I, p. 66, t. 52, f. 5. 1991  
*Hab.* in calamis Typhæ latifoliæ in Germania. — Perithecia sparsa 200  $\mu$ . diam.; asci 80-90 = 20-25; sporidia 3-septata, 25-28 = 10-12, melleo-fulva.
19. **Leptosphæria Pseudo-Diaporthe** Oud. Contr. Myc. Pays-bas XIV, p. 34. 1992  
*Hab.* in calamis siccis Junci effusi, in Hollandia. — Perithecia 100-160  $\mu$ . diam.; asci 40 = 18; sporidia 3-septata, fuligineo-olivacea, 20-25 = 7.
20. **Leptosphæria caricicola** Fautr. Rev. Myc. 1893, p. 20. 1993  
*Hab.* in foliis Caricis ripariæ, Côte-d'Or Galliaë. — Perithecia subglobosa, minuta; asci 60-70 = 6-8; sporidia 18-21 = 4, triseptata, olivacea.
21. **Leptosphæria caricina** Schröt. Pilze Schles. II, p. 361. 1994  
*Hab.* in foliis emortuis Caricis, in Silesia. — Perithecia 60-70  $\mu$ . diam.; 40-45 = 11-13; sporidia 3-septata, flavo-brunnea, 20 = 5.
22. **Leptosphæria muricata** E. et E. New Fung. in Proceed. Acad. 1995  
 N. Sc. Philad. 447.  
*Hab.* in foliis Andropogonis muricati, Louisiana Amer. bor. (LANGLOIS). — Perithecia 150-250  $\mu$ . diam.; asci 55-70 = 5-6; sporidia 10-11 = 2,5-3, flava, biseptata.
23. **Leptosphæria punctiformis** Passer. Diagn. Funghi nuovi V, n. 10. 1996  
 — Peritheciis sparsis minutissimis, globosis, membranaceis, atris, ostiolo acuto erumpenti; ascis clavatis, aparaphysatis, sessilibus, 50-62 = 10; sporidiis octonis, distichis, subfusiformibus superne rotundatis, inferne acutis, 3-septatis, ad septa vix constrictis, loculis minute guttulatis, 15-17,5 = 5, fuscis.

324 Pyrenomyceteæ, Sphæriaceæ, Phæophragmiæ, Leptosphæria.

*Hab.* in caule fracido Zeæ Maydis, Vigheffio, Parma Ital. bor.

24. **Leptosphæria vaginæ** Passer. Diagn. Funghi nuovi V, n. 11. — 1997

Peritheciis sparsis, tectis, globosis, ostiolo acuto erumpenti; ascis paraphysatis elongato-clavatis, 8-sporis, 100-150 = 18-20; sporidiis distichis, oblongato-fusiformibus, utrinque obtusis, rectis vel curvulis, 5-septatis, flavo-castaneis, medio vix vel non constrictis, 25-32 = 10-12, loculis guttulatis.

*Hab.* in vaginis putrescentibus Phragmitis communis, Baganza, pr. s. Ruffino, Parma Ital. bor. — A *Leptosphæria Typharum* (Desm.), cui similis, ascis sporidiisque 5-septatis majoribus differt.

25. **Leptosphæria Sacchari** v. Breda Rood. Rot. p. 25. 1998

*Hab.* in foliis Sacchari officinarum in Java. — Perithecia 140  $\mu$ . diam.; sporidia 3-septata, 20-24 = 5, brunneola.

26. **Leptosphæria fimbriata** E. et E. North Am. Pyr. p. 357. 1999

*Hab.* in caulibus herbaceis emortuis, Utah Amer. bor. — Perithecia 200-300  $\mu$ . diam., basi mycelio fimbriata; asci 80-90 = 15-18; sporidia 20-24 = 5-6, 3-septata, brunnea.

27. **Leptosphæria papyricola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 337. 2000

*Hab.* in charta putrescenti dejecta, Newfield N. J. Amer. bor. — Perithecia 110-130  $\mu$ . diam.; asci 60-70 = 5 (p. sp.); sporidia 15-20 = 2,5-3, flava, constricto 3-septata.

## II. Sporidia 5-pluriseptata.

28. **Leptosphæria rhopalispora** Berl. Icon. fung. I, p. 81, t. 72, f. 2. 2001

*Hab.* in caulibus Crithmi maritimi et Inulæ crithmoidis in Gallia. — Perithecia sparsa 250  $\mu$ . diam.; asci 85-95 = 8-10; sporidia 23-26 = 5-6, 5-7-septata, clavata, curvula, flavida.

29. **Leptosphæria Capsularum** Cavara F. Longob. exs. n. 174, c. ic. 2002

*Hab.* in capsulis siccis *Cenotheræ* biennis pr. Pavia It. bor. — Perithecia 260 = 200; asci 10-100 = 12-14; sporidia sub-5-septata, 22-24 = 7-8, luteo-olivacea.

30. **Leptosphæria lasioderma** E. et E. in Proceed. Acad. S. N. Philad. 1893, p. 135. 2003

*Hab.* in caulibus emortuis *Artemisiæ tridentatæ*, Nevada Amer. bor. (JONES). — Perithecia 0,5-0,7 mm. diam., setulis 100-150 = 5-6 vestita; asci 65-75 = 15-20; sporidia 25-30 = 10-12, aurea, constricto-septata (3-septata?).

31. **Leptosphæria camphorata** Passer. Diagn. Fungh. nuovi, V, n. 8. 2004

— Peritheciis sparsis, vix ostiolo minuto, atro, erumpentibus, con-

textu parenchymatico brunneo; ascis clavatis, sessilibus vel brevissime stipitatis, 8-sporis, 75-100 × 15-16; sporidiis distichis, crasse fusiformibus, utrinque acutis, 3-5-septatis, ad septa non vel vix constrictis, loculis non guttulatis, 27,5-30 × 7,5 melleo-olivaceis.

*Hab.* in caulibus siccis Artemisiæ camphoratæ, Vigheffio, Parma Ital. bor.

32. **Leptosphæria crustacea** Schröt. Pilze Schles, II, p. 365. 2005

*Hab.* in caulibus emortuis Artemisiæ campestris, in Silesia. — Perithecia 0,3-0,4 mm. diam.; asci 90-100 × 16-20; sporidia 5-septata, flavo-brunnea, 60-66 × 7-8.

33. **Leptosphæria sambucina** Ell. et Ev. Proc. Acad. Phil. 1894, p. 336. 2006

*Hab.* in ramis Sambuci melanocarpæ, Colorado Amer. bor. (BACKER). — Perithecia 350-400 μ. diam.; asci 100-120 × 12; sporidia 22-27 × 6-7 aurea, demum 6-septata.

34. **Leptosphæria puteana** E. et K. North Am. Pyr. p. 368. 2007

*Hab.* in ramis quercinis, Kansas Amer. bor. — Perithecia 200 μ. diam. erumpentia; asci 75 × 15-18; sporidia 20-27 × 6-8, 6-8-septata, atrobrunnea.

35. **Leptosphæria Triglochinis** Schröt. Pilze Schles. II, p. 366. 2008

*Hab.* in calamis et fructibus emortuis Triglochinis palustris, in Silesia. — Perithecia 0,2 mm. diam.; asci 60-70 × 15; 5-septata, colorata.

36. **Leptosphæria occidentalis** E. et E. New West-Amer. Fung. p. 20 2009  
in Erythea Vol. II, 1894.

*Hab.* in culmis emortuis Panici Crus-Galli, Kansas (BARTHOLOMEW). — Perithecia subelliptica 175-230 μ. long.; asci 75-85 × 12-15; sporidia 5-8-septata, flavido-brunnea 30-40 × 7-8.

37. **Leptosphæria Hazslinzskiana** Berl. Icon. fung. I, p. 78, t. 67, f. 1. 2010

*Hab.* in culmis graminaceæ cujusdam in Germania. — Perithecia sparsa 0,3 mm. diam.; asci 105-115 × 14-16; sporidia 38-42 × 8-10, brunnea, loculis extimis pallidioribus, constricto-5-septata.

38. **Leptosphæria limosa** Fautr. Rev. mycol. 1891, p. 128. 2011

*Hab.* in caulibus Equiseti limosi, Côte-d'Or Galliæ. — Perithecia majuscula, seriata, globoso-conica; asci 150-180 × 10-15; sporidia 5-septata, constricta, dilute fuliginea. 30-32 × 6-8.

**POCOSPHERIA** Sacc. Syll. II, p. 32 (ut subgenus), Berl. Ic. fung. I, p. 89 (Etym. *pocos* villus et *Sphæria*). — Perithecia setosa; asci et sporidia *Leptosphæriæ*. Huc spectant **Poc. setulosa** S. et R.

Berl. l. c. t. LXXXI, f. 2. **Poc. eriophora** (Cooke) Berl. l. c. t. LXXXI, fig. 3 et aliæ species in Syll. I, p. 32, et 87.

**PASSERINIELLA** Berl. Icon. fung. I, p. 51 (Etym. ab eximio mycol. JOH. PASSERINI). — *Perithecia rami-culmicola*, atra, globuloso-conoidea, ostiolo papillato; asci 8-spori; sporidia 3-5-septata, loculis mediis coloratis, extimis hyalinis. — Huc spectat **Passeriniella dichroa** (Pass.) Berl. l. c. t. 38, f. 1, *Leptosphæria* Pass. Syll. IX, p. 778, **Passer. incarcerata** (B. et C.) Berl. l. c. tab. 58, fig. 5, *Leptosphæria* (B. et C.) Sacc. Syll. II, p. 86. et **Passer. circinans** (Fuck.) Sacc. Syll. II, p. 88 (*Leptosph.*).

**CLYPEOSPHÆRIA** Fuck. — Syll. II, p. 90, IX, p. 798.

1. **Clypeosphæria minor** E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 138. 2012

*Hab.* in ramis et radice *Betulæ*, Canada (DEARNESS). — *Perithecia* 0,5 mm. diam.; asci 50-55 = 5; sporidia 3-septata, olivaceo-brunnea, 10-12 = 2,5-3.

2. **Clypeosphæria imperfecta** E. et E. North Am. Pyr. p. 410. 2013

*Hab.* in cortice vivo *Betulæ*, Syracuse N. Y. Amer. bor. (UNDERWOOD). — *Perithecia* 0,5 mm. diam.; asci 80-100 = 20; sporidia 3-septata, brunnea, 20-30 = 10-12, leviter constricta. Habitus fere *Pyrenulæ*.

3. **Clypeosphæria ulmicola** E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 138. 2014

*Hab.* in ramis emortuis *Ulm*i, Canada (DEARNESS). — *Perithecia* clypeata 0,5 mm. diam.; asci 75-85 = 8-9 (p. sp.); sporidia 14-16 = 7-8, constricto-3-septata, brunnea.

4. **Clypeosphæria sanguinea** E. et E. North Am. Pyr. p. 409. 2015

*Hab.* in ligno aeri diu exposito in Pennsylvania et Kansas, Amer. bor. — *Perithecia* minuta 100  $\mu$ . diam. lignum sanguineo tingens; asci 40-50 = 7-8; sporidia constricto-3-septata, brunnea 12-15 = 3,5-4,5.

**CHÆTOSPHÆRIA** Tul. — Syll. II, p. 92, IX, p. 799.

1. **Chætosphæria Togniniana** Cavar. Mycol. Lomb. p. 21, tab. 26, f. 9-12. 2016  
— *Byssiseda*; peritheciis sparsis, globoso-conicis, nigro-fuscis, opacis, scabriusculis, pilosis, ostiolo papillæformi præditis; pilis undique sparsis, nigris, cylindræis, subrectis, remote septatis, apice inflatulis; ascis cylindræo-clavatis, 150-170 = 10-12, apice

truncatis, basi longe attenuatis, tetrasporis, numerosis paraphysibus intermixtis; sporiolis navicularibus, rectis aut vix curvulis, utrinque attenuatis, 4-ocularibus, oculis mediis viridulis, singulis sæpe globulo achroo præditis, extimis incoloribus, 26-32 = 9-11; conidiis dilute olivaceis 22-24 = 4 longe ellipticis, triseptatis, ex hyphis byssaceis, tenuissimis, elongatis orientibus.

*Hab.* ad lignum putrescens in Horto botanico Papiæ Ital. bor.

2. **Chætosphæria Potentillæ** Rostr. Oest-Grönl. Svampe p. 23. 2017

*Hab.* in foliis caulibusque Potentillæ niveæ in Groenlandia. — Perithecia conica, byssiseda. Asci 38-45 = 22-25; sporidia fusca, 3-septata, vix constricta, 18-20 = 7-8.

**MELANOMMA** Nits. et Fuck. — Syll. II, p. 98, IX, p. 801.

1. **Melanomma dealbatum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 328. 2018

*Hab.* in ligno diu aeri exposito Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 200-225  $\mu$ . diam. collabentia; asci 75-110 = 10-12; sporidia 3-septata, pallide brunnea, 12-15 = 6-7.

2. **Melanomma rhyodes** E. et E. New West-Amer. Fung. p. 17, Erythea Vol. II, 1894. 2019

*Hab.* in cortice Populi moniliferæ adhuc vivæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia pruinosa 0,5 mm. diam.; asci 80-100 = 12-15; sporidia 3-septata, olivaceo-brunnea, 19-22 = 7-8.

3. **Melanomma leptosphærioides** Passer. Diagn. F. nuovi V, n. 12. — 2020

Peritheciis lignicolis, superficialibus, crebre sparsis, pusillis, subglobosis, ostiolo minuto papillari; ascis tubulosis, paraphysatis, 75-85 = 9-10, 8-sporis; sporidiis distichis, fusiformibus, 7-9-septatis, loculis aequalibus, curvulis, 25 = 4-5, flavis.

*Hab.* in caulibus siccis nudatis Pulicariæ viscosæ in prov. Parma Ital. bor. — A *Leptosphæria* non differt nisi peritheciis lignicolis.

4. **Melanomma epileucum** Passer. Diagn. F. nuovi V, n. 13. — Peri- 2021

theeciis minutis subglobosis in peridermio albicanti sparsis vel subgregariis, superficialibus, atris; ascis clavatis, spurie (?) paraphysatis, 8-sporis 62 = 15; sporidiis conglobatis vel subtristichis fusiformibus, primo integris, hyalinis, endoplasmate granuloso, pluriguttulato, tandem 3-5-septatis, non constrictis, flavo-fuscidulis 12,5 = 4-5.

*Hab.* in cortice vetusto Ulmi campestris, Vigheffio pr. Parma Ital. bor.



5. **Melanomma asterostomum** Ell. et Ev. Proc. Acad. Phil. 1894, 2022  
p. 328.

*Hab.* in cortice radicum Fagi, Granton, Ontario, Canada (DEARNESS). — Perithecia 0,2-0,3 mm. diam.; asci 45-50 = 8-10 (p. sp.); sporidia 12-15 = 3-4, olivaceo-brunnea, constricto-3-septata.

6. **Melanomma salicinum** Rostr. Till. Grönl. Svamp. p. 619. 2023

*Hab.* in ramis decorticatis Salicis glaucæ in Groenlandia. — Perithecia 0,5 mm. diam. globosa; asci 120-130 = 10-12; sporidia 30-35 = 6-8, flavo-fusca, 6-septata.

7. **Melanomma glaucinum** (Fr.) Starb. Stud. p. 32, f. 16, *Sphæria* 2024  
Fr., Syll. II, p. 421. — Perithecia 300-400  $\mu$ . diam.; asci 120-125 = 17-25; sporidia 3-septata, olivaceo-fusca 20-25 = 10-12 (In peridermio Betulæ).

8. **Melanomma sporadicum** E. et Ev. North Am. Pyr. p. 186. 2025

*Hab.* in ligno decorticato Platani, Canada (DEARNESS). — Perithecia 300-350  $\mu$ . diam.; asci 100-110 = 15-20; sporidia 3-5-sæpius 3-septata, brunnea, 20-30 = 8-10.

9. **Melanomma moricolum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 328. 2026

*Hab.* in ramulis emortuis Mori; Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 250  $\mu$ . diam.; asci 40-45 = 7 (p. sp.); sporidia 12-15 = 3-4, flavo-brunnea 3-septata.

10. **Melanomma alpestre** Ell. et Ev. Proc. Acad. Phil. 1894, p. 328. 2027

*Hab.* in ramis emortuis Arctostaphyli nevadensis, Mt. Paddo Wash. Amer. bor. (SUKSDORF). — Perithecia 1-1,2 mm. diam.; asci 110-150 = 10-12; sporidia 3-septata, brunnea, 18-22 = 5-6.

11. **Melanomma Piri** Mori Enum. Fungh. Mod. III, p. 69. 2028

*Hab.* in cortice Piri communis, Casinalbo, Modena Ital. bor. — Perithecia 470  $\mu$ . diam.; asci 200 = 36; sporidia 44-48 = 16-20 brunnea, 6-7-septata.

12. **Melanomma deciduum** E. et E. New Fung. Proceed. Acad. N. S. 2029  
Philad. 1893, p. 445.

*Hab.* in ligno fraxineo et cedrino, N. York Amer. bor. — Perithecia 300-400  $\mu$ . diam.; asci 60-70 = 6; sporidia triseptata, medio constricta, pallide brunnea, 15-18 = 3.

13. **Melanomma nitidulum** Bres. Pilz. Portoric. Sintenis p. 500. 2030

*Hab.* in ramulis corticatis Portorico (SINTENIS). — Perithecia 0,5 mm. diam. umbilicata; asci 100-120 = 12-15; sporidia quinque-septata, luteola, 18-22 = 9-12.

14. **Melanomma subconicum** Ell. et Ev. Bull. Univ. Iowa 1893, p. 402. 2031

*Hab.* ad cortices, Castillo viejo Amer. centr. (SMITH). — Pe-

Perithecia depresso-conica, 1 mm. diam.; asci 100 = 10; sporidia obscure 3-4-septata, olivaceo-brunnea, 12-15 = 6-7, utrinque breve hyalino-apiculata.

15. **Melanomma cupulare** Clem. Bot. Surv. Nebr., Rep. III, 1893 p. 7. 2032

*Hab.* ad caudices, Saltillo, Nebraska Amer. bor. — Perithecia 250-300  $\mu$ . diam. collabentia; asci evanidi; sporidia triseptata, brunnea, cellulis extimis obtusis hyalinis, 25-28 = 5-6.

16. **Melanomma spiniferum** E. et E. North Am. Pyr. p. 184. 2033

*Hab.* in Corticio quodam effuso in trunco Mori rubræ, Delaware Amer. bor. (COMMONS). — Perithecia minuta 50-75  $\mu$ . diam., spinulis 20-25 = 4 sursum conspersa; asci 35-40 = 10-11; sporidia 3-septata, olivaceo-brunnea, 12-14 = 3-3,5. — E sect. *Chaetomastice* Sacc.

**TREMATOSPHERIA** Fuck. — Syll. II, p. 115 et IX, p. 811.

1. **Trematosphæria Fraxini** Ell. et Ev. Proc. Acad. Phil. 1894, p. 329. 2034

*Hab.* in ramis emortuis Fraxini viridis, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 0,3-0,5 mm. long. ellipsoidea; asci 70-80 = 12-15; sporidia constricto-3-septata, brunnea, 20-27 = 6-8.

2. **Trematosphæria vitigena** Ell. et Ev. Proc. Acad. Phil. 1894, p. 329. 2035

*Hab.* in ligno vetusto Vitis rupestris, Nuttallburg West Va. Amer. bor. (NUTTHALL). — Perithecia 0,5-0,7 mm. diam.; asci 86-100 = 10-12; spor. triseptata, constricta, pallide brunnea, 20-25 = 6-7.

3. **Trematosphæria hyalopus** E et Ev. New West-Amer. Fung. p. 18 2036  
in Erythea Vol. II, 1894.

*Hab.* in cortice vivo Fraxini viridis, Kansas, Amer. bor. (BARTHOLOMEW). — Perithecia 0,7-1 mm. diam., ostiolo cylindræo-conico; asci 90-100 = 10 (p. sp.); sporidia 12-16 = 7-8, initio basi 1-septata, loculo imo hyalino, altero brunneo, probab. denique 1-septato.

**CARYOSPORA** De Not. — Syll. II, p. 122, IX, p. 815.

1. **Caryospora minor** Peck 44 Rep. p. 29, t. IV, f. 18-21. 2037

*Hab.* in pericarpio nucum Caryæ, Albany Amer. bor. — Perithecia 350-500  $\mu$ . diam.; asci cylindræi 4-8-spori, 150 = 20; sporidia 45-50 = 12, 1-septata, dilute colorata.

**SPORORMIA** De Not. — Syll. II, p. 123, IX, p. 816.

1. **Sporormia herculea** E. et E. North Amer. Pyr. p. 135. 2038

*Hab.* in fimo vaccino, Newfield N. J. Amer. bor. — Perithecia 0,5-0,7 mm. diam. ostiolo tereti-tuberculiformi; asci 250-340  $\times$  50-60; sporidia 112-152  $\times$  14-16, fuliginea, 9-12-septata, articulis extremis ovato-conoideis.

2. **Sporormia carpinea** Fautr. Rev. mycol. 1894, p. 162, t. 150, f. 8. 2039

*Hab.* in ligno Carpini putri ad terram, Côte-d'Or in Gallia. — Perithecia conica basi infossa; asci bi-tetraspori; sporidia 7-septata, fusca, 60  $\times$  10-12.

**SPORORMIELLA** E. et Ev. North Am. Pyr. p. 136, nec Pirotta (Etym. a *Sporormia* cui affinis). — Perithecia carnosula, stromate subcarnoso subplano immersi; asci et sporidia *Sporormiæ*.

1. **Sporormiella nigropurpurea** E. et Ev. l. c. 2040

*Hab.* in fimo vaccino, Newfield N. J. Amer. bor. — Perithecia 0,3 mm. diam. in stromate 0,5-1 cm. lat. immersa, nigropurpurea; asci 100-125  $\times$  10-12; sporidia 16-20  $\times$  4-5, atro-brunnea, 3-septata.

**PSEUDOVALSA** Ces. et De Not. — Syll. II, p. 135, IX, p. 820.

1. **Pseudovalsa viticola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 343. 2041

*Hab.* in sarmentis emortuis *Vitis ripariæ*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 2-4 in quoque stromate 0,5-0,7 mm. diam.; asci 100-120  $\times$  10-12; sporidia 3-septata, flavo-brunnea 15-20  $\times$  8-9.

2. **Pseudovalsa subrufa** E. et E. New Californ. Fung. in Erythea 1893, p. 146. 2042

*Hab.* in ramis emortuis *Rhois* sp. in California (BLASDALE). — Stroma 1,5-2 mm. diam.; perithecia 6-10 in quoque stromate, 300-400  $\mu$ . diam.; asci 75-85  $\times$  7; sporidia 3-septata, brunnea, 12-15  $\times$  4-5.

3. **Pseudovalsa caudata** E. et E. North Am. Pyr. p. 408 (ex errore sub *Massariovalsa*). 2043

*Hab.* in cortice emortuo *Platani*, Canada (DEARNESS). — Perithecia circinata 0,7 mm. diam.; asci 80-90  $\times$  25-50; sporidia clavato-oblonga, 30-50  $\times$  18-22, bi-tri-septata, hyalina dein olivaceo-brunnea, utrinque crasse hyalino appendiculata. « An diversa a *Ps. hapalocysti*? ».

4. **Pseudovalsa ulmicola** E. et E. Proceed. Acad. N. Sc. Philad. 1893, p. 456. 2044

*Hab.* in ramis emortuis *Ulmi*, Canada (DEARNESS). — Stroma 0,5-1 cm. diam.; perithecia 0,5-0,7 mm. diam. 8-20-circinata; sporidia 20-28  $\times$  5-7, flavo-brunnea, 1-3 septata.

5. **Pseudovalsa Smithii** Ell. et Ev. Bull. Univ. Iowa 1893, p. 404. 2045  
*Hab.* in corticibus emortuis, Castillo viejo Amer. centr. (SMITH).  
 --- Perithecia 4-8 in quoque stromate 0,5 mm. diam.; asci non visi; sporidia 52-62 = 10-14, atro-brunnea, 3-septata, loculis extremis pallidioribus.

**THYRIDARIA** Sacc. — Syll. II, p. 140, IX, p. 821.

1. **Thyridaria crocosarca** (B. et Br.) Cooke Grev. XX, p. 83, *Melogramma* B. et Br. in Herb. 2046  
*Hab.* in corticibus, Ceylon (THWAITES). — Perithecia 2-6 in quoque stromate, crocea, pruinosa; asci clavati 8-spori; sporidia 40 = 12, pallida, 7-11-septata, non constricta.

**KALMUSIA** Niessl — Syll. II, p. 142, IX, p. 822.

1. **Kalmusia stromatica** C. et Mass. Grev. XX, p. 8. — Stromate eutypoideo, effuso, elevato, nigro; peritheciis immersis, ostiolo prominenti; ascis tereti-clavatis; sporidiis elongato-fuscoideis, 4-7-septatis, non constrictis, brunneis, 30 = 6. 2017

*Hab.* in ramis decorticatis pr. Oxford Britanniae (BAXTER).

2. **Kalmusia Breidlerii** Bäuml. Zur Pilzfl. Niederöst. VI, p. 93. 2048  
*Hab.* in ligno interiore Castaneæ vescae cavæ, Vindobonæ Austriæ (BREIDLER). — Perithecia 250-500  $\mu$ . diam.; asci 140 = 10-12; sporidia 23-28 = 6-8, 1-3-septata, brunnea.

**MELOGRAMMA** Fr. emend. Tul. — Syll. II, p. 144, IX, p. 824.

1. **Melogramma effusum** Peck 47 Rep. p. 26. 2049  
*Hab.* in ligno putri, Canada (MACOUN). — Stroma effusum, nigrum; perithecia minuta; asci subcylindrici; sporidia 3-septata, curvula, 20-26 = 4-5, hyalina. « An *Melogramma*? ».

2. **Melogramma biparasiticum** Pat. Bull. Boiss. 1895, p. 69. 2050  
*Hab.* in caulibus Bystropogonis ad tumores a Puccinia formatos, Rio Machangara Æquatoriae (LAGERHEIM). — Stroma effusum, atrum, 1-2 mm. cr.; perithecia immersa 250 = 300  $\mu$ . diam.; asci 110-130 = 13-15; sporidia 23-26 = 5-6, pallide brunnea, 3-septata, utrinque subapiculata.

3. **Melogramma columbiense** E. et E. New West Amer. Fung. in Erythea p. 199. 2051

*Hab.* in ramis emortuis arboris cujusdam in Columbia britannica (MACOUN). — Perithecia 150-200  $\mu$ . diam. in stromate 1 mm. diam. immersa; asci 100 = 12; sporidia 5-septata, hyalina, 18-20 = 6-7, loculo altero subinde longit. diviso. Vix *Melogramma*.

## Sect. 7. Hyalophragmiæ.

**MASSARINA** Sacc. — Syll. II, p. 153, IX, p. 824.

1. **Massarina Flageoletiana** Sacc. Grev. XXI, p. 66, t. 184, fig. 6 2052  
 (ex err. typ. *Massaria*). — Peritheciis laxè gregariis, globosis, crassiusculis, subcoriaceis, atris,  $\frac{3}{4}$  mm. diam., peridermio colliculoso tectis, ostiolo minuto obtuso vix erumpenti; ascis tereti-clavatis,  $180 \approx 30$ , brevissime crasse stipitatis apice rotundatis, 6-8-sporis; paraphysibus filiformibus, guttulatis; sporidiis distichis, fusoides, utrinque obtusulis, rectis v. leniter curvis, crasse globoso-6-guttatis, prope medium distincte 3-septatis, non constrictis,  $75 \approx 15$  hyalinis, guttis 1-seriatis subinde ocellatis, strato mucoso subnullo.

*Hab.* in ramis corticatis emortuis Viburni Opuli, Saone et Loire Galliæ (FLAGEOLET). — Eximia et distincta species.

2. **Massarina microspora** Passer. Diagn. F. nuovi V, n. 14. — Pe- 2053  
 ritheciis subcutaneis, sparsis vel subgregariis, minutis, globosis, atris; ascis tubuloso-clavatis, breviter stipitatis,  $60-62,5 \approx 10$ , 8-sporis; sporidiis distichis, fusiformibus, rectis, primo didymis, dein 3-septatis, ad septa constrictis, hyalinis,  $42-13 \approx 3,5-4$ , anulo hyalino cinctis.

*Hab.* in ramis emortuis Pini silvestris, Collecchio, Parma Ital. bor. — A *Massarina microcarpa* ascorum et sporidiorum parvitate peritheciisque minime pilosis videtur distinguenda.

3. **Massarina Mamma** (Otth) Sacc. *Massaria* Jaczews. Bull. Herb. Boiss. 2054  
 II, p. 672.

*Hab.* in ramis Loniceræ nigræ pr. Berne Helvetiæ (OTTH). — Perithecia papillata, subcutanea, prominula; asci cylindranei; sporidia  $17 \approx 6$ , constricto-3-septata, hyalina.

4. **Massarina Alni** (Otth) Sacc. *Epiphegia Alni* Otth Mittheil. Bern. 2055  
 1870, p. 104, *Massaria* Jacz. Bull. Herb. Boiss. II, p. 671.

*Hab.* in ramis Alni pr. Berne Helvetiæ (OTTH). — Perithecia subcæspitosa; asci tereti-clavati,  $90 \approx 10$ ; sporidia  $20-23 \approx 5$ , constricto-3-septata, hyalina, curvula.

5. **Massarina Ligustri** (Otth) Sacc. *Cladosphaeria* Otth in Mittheil. 2056  
 Bern. 1870, p. 105. *Massaria* Jacz. Bull. Herb. Boiss. II, p. 672.

*Hab.* in ramis Ligustri communis pr. Berne Helvetiæ (OTTH). — Perithecia conferta; asci  $80 \approx 18$ ; sporidia  $18-22 \approx 4,5-6$ ,

Pyrenomyceteæ, Sphæriaceæ, Hyalophragmiæ, Metasphæria 333  
constricto-3-septata, 4-guttata, hyalina. « Probabiliter forma *Meta-*  
*sphæriæ sepincolæ* ».

**METASPHÆRIA** Sacc. — Syll. II, p. 156, IX, p. 825.

I. Sporidia 2-3-septata.

1. **Metasphæria Maximiliani** E. et E. in Proceed. Acad. S. N. Philad. 2057  
1893, p. 136.  
*Hab.* in caulibus emortuis Helianthi Maximiliani, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 300  $\mu$ . diam.; asci 75 = 8; sporidia constricto-bi-septata, 15-20 = 4-5, hyalina.
2. **Metasphæria gaurina** E. et E. New West-Amer. Fung. 21 in Ery- 2058  
thea Voll. II, 1894).  
*Hab.* in caulibus emortuis Gauræ parvifloræ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 200-250  $\mu$ . diam.; asci 75-80 = 10; sporidia 3-septata, constricta, hyalino-flavidula, 20-24 = 4-5.
3. **Metasphæria excussa** (Schw.) Starb. Stud. p. 37, f. 20, *Sphæria* 2059  
Schw. — Syll. II, p. 417. — Perithecia 300-400  $\mu$ . diam.; asci cylindraceuti longissimi; sporidia 13-18 = 4,5-5, 4 guttata, spurie 3-septata. (In ramis Piri Mali).
4. **Metasphæria orthospora** Sacc. Grev. XXI, p. 66, t. 184, f. 7. — 2060  
Peritheciis gregariis, globoso-depressis, epidermide velatis, prominulis, ostiolo minuto obtuso vix erumpentibus,  $\frac{1}{3}$  mm. diam., ascis cylindraceutis, breve stipitatis, apice rotundatis, 130-140 = 15, octosporis; paraphysibus filiformibus copiosis; sporidiis distichis, cylindraceutis, rectis, utrinque rotundatis, sed sæpius etiam brevissime et obtuse papillatis, 21 = 5, triseptatis, levissime constrictis, hyalinis.  
*Hab.* in ramulis corticatis nitidis salicinis, Rigny Galliæ (FLAGEOLET). — Affinis *M. cinereæ* et *depressæ*.
5. **Metasphæria fuscata** E. et E. in Proceed. Acad. S. N. Philad. 2061  
1893, p. 137.  
*Hab.* in ramis emortuis corticatis Quercus coccineæ, Newfield N. J. Amer. bor. — Perithecia 300  $\mu$ . diam.; asci 75-100 = 12-15; sporidia constricto-3-septata, hyalina, 19-22 = 7-8.
6. **Metasphæria Loniceræ** Fautr. Rev. Myc. 1892, p. 173. 2062  
*Hab.* in ramis vivis Loniceræ Xylostei, Côte-d'Or Galliæ. — Perithecia majuscula globoso-collabentia; asci 60-70 = 12-14; sporidia 3-septata, 25-32 = 4, hyalina, loculo secundo paullo crassiore.

7. **Metasphæria dealbata** Berl. Icon Fung. Vol. I, p. 133, tab. CXLII, 2063  
f. 3. — Peritheciis subsparsis, maculis dealbatis insidentibus,  $\frac{1}{8}$   
mm. diam.; contextu molli, olivaceo; ascis 80-90  $\approx$  10; sporidiis  
etiam distichis sed sæpius monostichis, 16-20  $\approx$  7 3-septatis.

*Hab.* in ramis fracidis decorticatis, Sussex Britannicæ. — *M. trichostomæ* affinis sed ostiolo non setoso et sporidiis 3-septatis minoribusque; a *Zignoellæ* typo peritheciis membranaceis, tectis differt.

8. **Metasphæria clavulata** Passer. Diagn. Funghi nuovi, V, n. 16. — 2064  
Peritheciis sparsis vel laxe gregariis, primo epidermide tectis, dein  
nudis, superficialibus, globosis, atris, circa ostiolum brevissime ci-  
liolatis; ascis paraphysatis tubulosis, brevissimo stipitatis, 8-sporis  
60-80  $\approx$  10-12; sporidiis bi-tristichis, elongato-clavulatis, apice ro-  
tundatis, basi acuminatis, 3-septatis, non vel vix constrictis, 22,5-  
25  $\approx$  2,5-3 hyalinis.

*Hab.* in culmo fracido Scirpi Holoschœni, Vigheffio, Par-  
ma Ital. bor.

9. **Metasphæria sphenispora** E. et E. in Proceed. Acad. S. N. Philad. 2065  
1893, p. 136.

*Hab.* in culmis emortuis Erianthi alopecuroidis, Dela-  
ware Amer. bor. (COMMONS). — Perithecia 0,5 mm. diam.; ascis 60-  
66  $\approx$  10-12; sporidia 3-septata, hyalina, 12-16  $\approx$  3,5.

10. **Metasphæria infuscans** E. et E. North Am. Pyr. p. 388. 2066

*Hab.* in vagina interiore Andropogonis virginici, Ala-  
bama Amer. bor. (ATKINSON). — Perithecia 250  $\mu$ . diam.; ascis 70-  
80  $\approx$  10-12; sporidia 3-septata, hyalino-flavida, 15-20  $\approx$  3,5-4.

11. **Metasphæria nuda** Peck 44 Rep. p. 29. 2067

*Hab.* in culmis Panici miliacei, Menands Amer. bor. —  
Perithecia ovato-conica, nigra, contextu sub microscopio cyaneo;  
ascis 75  $\approx$  12; sporidia 3-septata, hyalina 17-20  $\approx$  6. — « An potius  
*Gibberella* ? ».

## II. Sporidia 4-pluriseptata.

12. **Metasphæria spurca** Passer. Diagn. Funghi nuovi, V, n. 15. — 2068  
Peritheciis gregariis, ovalibus, epidermide infuscata semper tectis,  
ostiolis imperspicuis; ascis clavatis, paraphysibus tenuibus supe-  
rantibus stipatis, 8-sporis, 65-95  $\approx$  12,5; sporidiis distichis vel ob-  
lique monostichis, fusiformibus, inferne acutis, apice rotundatis, cur-  
vulis, 4-septatis, hyalinis, ad septa leniter constrictis, 20-22,5  $\approx$  5.

*Hab.* in caulibus siccis Umbelliferæ, forte Dauci Carotæ, San Ruffino, Parma Ital. bor.

13. **Metasphæria rubida** (Blox.) Cooke Grev. XX, pag. 83, *Sphæria* 2069  
*rubida* Bloxam in Herb. Berk. — Caulicola; peritheciis parvulis, globosis, nigris, ostiolo papillato, subcutaneo-erumpentibus, matricem sanguineo maculantibus; ascis clavatis; sporidiis fusoides, rectis curvulise, 3-5-septatis, constrictis, hyalinis, 25 = 3.  
*Hab.* in caulibus herbarum Twycross Britannia (BLOXAM).
14. **Metasphæria Pseudacaciæ** Schröt. Pilze Schles. II, p. 354. 2070  
*Hab.* in petiolis vetustis Robinia Pseudo-Acaciæ, in Silesia. — Perithecia 0,3 mm. diam.; asci 100-110 = 12-14; sporidia 3-4-septata, 32-35 = 6, hyalina.
15. **Metasphæria lineolata** Fautr. et Roum. Rev. Myc. 1892, p. 108. 2071  
*Hab.* in ramis Rosæ caninæ, Côte-d'Or Gallia. — Perithecia gregaria, tecta, nigra, lineata; asci 60-75 = 15-20, sessilia, rosulata; sporidia tereti-clavulata, 30 = 8-10, 5--septata, medio constricta, hyalina. « An Sphærulinae species? ».
16. **Metasphæria microëcia** E. et E. in Proceed. Acad. S. N. Philad. 2072  
 1893, p. 137.  
*Hab.* in ramis emortuis Aceris spicati, Canada (DEBARNES). — Perithecia 100-250  $\mu$ . diam.; asci 70-85 = 18-27; sporidia 5-6-nucleata, constricta, hyalina, 40-45 = 7-10.
17. **Metasphæria Ilicis** E. et E. New Californ. Fung. in Erythea 1893, 2073  
 p. 145.  
*Hab.* in foliis subvivi Ilicis Aquifolii, California (BLASDALE). — Perithecia 300  $\mu$ . diam.; asci oblongi, sessiles; sporidia 4-septata, ad secundum septum constricta, 15-27 = 6-7.
18. **Metasphæria dispar** Penz. et Sacc. in Penz. Stud. bot. Agrum. 2074  
 p. 335, tav. XXVII, fig. 6. — Peritheciis dense gregariis, subcutaneo-erumpentibus, sphæroideis, erostratis, aterrimis, 130-150  $\mu$ . diam.; ascis cylindræo-clavatis, crasse stipitatis, apice truncatis, 70-85 = 10-16, paraphysatis; sporidiis distichis, fusoides, utrinque rotundatis, inæqualiter 4-septatis, medio subconstrictis, hyalinulis, 22-24 = 7-7,5, loculo submedio paullo crassiore.  
*Hab.* in ramulis emortuis Citri Limonum in M. Argentario Etruria.
19. **Metasphæria obtusata** (Schw.) Cooke Grev. XX, p. 87, *Sphæria* 2075  
*obtusata* Schw. — Syll. II, p. 430. — Asci clavati, stipitati; sporidia lanceolata 5-7-septata, 50 = 7, hyalina.
20. **Metasphæria pusilla** Cooke Grev. XX, pag. 91. — Hypophylla, 2076



gregaria; peritheciis minutis, innatis, plagas latas efformantibus, ostiolo papillato; ascis clavatis; sporidiis fusiformibus, primitus uni-septatis, nucleatis, demum leniter quinquesepatis, hyalinis,  $40 \approx 8$ .

*Hab.* in foliis coriaceis Brasilæ (GLAZIOU).

21. **Metasphæria Cumana** Sacc. et Speg. — Syll. II, p. 177. — var. 2077  
**macrospora** Fautr. Rev. Myc. 1891, p. 128.

*Hab.* in foliis Caricis ripariæ, Canal de Bourgogne Galliæ. — Perithecia ovoidea, innata, ostiolo vix emergenti; ascis clavati; sporidia  $36-42 \approx 6-8$ , 3- raro 5-septata, constricta, hyalina.

**CERIOSPORA** Niessl — Syll. II, p. 184, IX, p. 845.

1. **Ceriospora alabamensis** E. et E. North Am. Pyr. p. 391, 2078

*Hab.* in caulibus herbaceis emortuis, Alabama (ATKINSON). — Perithecia  $0,3-0,5$  mm. diam.; ascis  $90-100 \approx 6-8$ ; sporidia demum 1-septata, hyalino-flavida,  $12-15 \approx 4-5$ , appendice  $10-15 \mu$ . long., utrinque aucta. « Si sporidia jugiter 1-septata, vix *Ceriospora* ».

**SPHÆRULINA** Sacc. — Syll. II, p. 186, IX, p. 846.

1. **Sphærulina Scirpi** Pass. in litt. ad Brun. Glan. mycol. ser. 2, Her- 2079  
bor. 1892, p. 5. — Peritheciis minutis, approximatis, brunneis, membranaceis; ascis globulosis  $10-12 \mu$ . diam. vñ obovoideo-piriformibus; sporidiis subdistichis, cylindræis, rectis, 3-septatis, hyalinis,  $8 \approx 2-3$ .

*Hab.* ad culmos emortuos Scirpi lacustris, Saintes in Gallia.

**SACCARDOELLA** Speg. — Syll. II, p. 191.

1. **Saccardoella canadensis** E. et Ev. North Am. Pyr. p. 392. 2080

*Hab.* in cortice Cratægi, London Canada (DEARNESS). — Perithecia ovata  $0,7 \mu$ . long.,  $0,5 \mu$ . lat.; ascis  $200-280 \approx 10$ ; sporidia 15-septata, hyalina,  $40-60 \approx 8-9$ , utrinque setigera.

**HYPOSPILA** Fr. — Syll. II, p. 189, IX, p. 849.

1. **Hypospila Brunellæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 338. 2081

*Hab.* in foliis Brunellæ vulgaris, Washington Amer. bor. (PIPER). — Perithecia  $0,5$  mm. diam.; ascis  $90-110 \approx 12$ ; sporidia 1-3 septata,  $55-62 \approx 3,5-4$ , hyalina.

**LASIOSPHÆRIA** Ces. et De Not. — Syll. II, p. 191, IX, p. 849.

1. **Lasiosphæria Hystrix** Ell. et Ev. Proc. Acad. 1894, p. 326. 2082

*Hab.* in ramis emortuis Salicis, Ohio Amer. bor. (MORGAN).

Pyrenomycetæ, Sphæriaceæ, Hyalophragmiæ, Acanthostigma. 337

— Perithecia 0,3-0,5 mm. diam., longe pilosa; asci 120-160  $\approx$  20; sporidia 45-65  $\approx$  8-10, 7-15-septata, hyalina. — Teste Starb. Stud. p. 38 ad *Lasiosphæriam Rhacodium* spectat *Sphæria atro-fusca* Fries Summa p. 3; ad *Lasiosphæriam hirsutam*, *Sphæria uliginosa* Fr., et ad *Lasiosphæriam acinosam*, *Sphæria setosa* Schw.

2. **Lasiosphæria newfieldiana** E. et E. N. Am. Pyr. p. 150.

*Hab.* in lignis putridis, Newfield Amer. bor. — Perithecia 0,7-1 mm. diam., brunneo-pilosa; asci 150-200  $\approx$  8; sporidia initio 35  $\times$  4 utrinque corniculata, demum sursum inflata brunnea, ibique 5-7  $\mu$ . crass. 2083

3. **Lasiosphæria dichroospora** E. et E. New West Amer. Fung. in *Erythea* 1893, p. 197. 2084

*Hab.* ad terram argillaceam, in silvis pr. Washington Amer. bor. (PIPER). — Perithecia parce brunneo-pilosa; asci 150  $\approx$  8-10; sporidia cylindræa, 40  $\approx$  4, supra fuliginea infra hyalina, utrinque acuta.

4. **Lasiosphæria trichopus** E. et E. in Proceed. Acad. S. N. Philad. 1893, p. 129. 2085

*Hab.* in ligno putri Canada (DEARNESS). — Perithecia 150  $\mu$ . diam., hyphis 35-60  $\times$  3 cincta; asci 75-80  $\times$  12-15; sporidia 25-40  $\times$  6-7, curvula obsolete 7-9-septata, flavida.

5. **Lasiosphæria striata** E. et E. New Sp. Fung., Proceed. Acad. N. S. Philad. 443. 2086

*Hab.* in ramis emortuis salicinis, Canada (DEARNESS). — Perithecia 0,7-1 mm. diam.; asci 100-110  $\approx$  7-8; sporidia 40-60  $\approx$  2, 5-3, 3-5-septata hyalina.

6. **Lasiosphæria palustris** Schröt. Pilze Schles. II, pag. 304 (*Leptospora*). 2087

*Hab.* ad terram inter Algas gelatinosas, in Silesia. — Perithecia 0,6 mm. diam. calva; asci 220-260  $\approx$  16-20; sporidia 60-70  $\times$  8-10, continua, hyalina.

7. **Lasiosphæria decipiens** Pass. F. Abiss. p. 189, t. V, f. 13, (*Leptospora*). 2088

*Hab.* in fragmento ligneo, Keren Colonie Erythrææ. — Perithecia globosa collabentia; asci clavati; sporidia 13-14  $\times$  1,5, subtrinucleata, in ascis flavido-fusca, extra hyalina. « An potius *Cælosphæriæ* spec.? ».

**ACANTHOSTIGMA** De Not. — Syll. II, p. 207, IX, p. 854.

1. **Acanthostigma parasiticum** E. et E. New Fung. in Proceed. Acad. 2089  
N. S. Philad. 1893, p. 443.

*Hab.* parasitice in Diatrype Stigmatæ, Newfield N. J. Amer. bor. — Perithecia 100-112  $\mu$ . alt., setulosa setulis obtusis 50-75  $\approx$  5; asci 55-70  $\approx$  12-15; sporidia 6-12-septata, hyalino-flavida, 40-50  $\approx$  4-5.

2. **Acanthostigma Fraxini** Ell. Descrip. new spec. Fung. in Journ. of 2090  
Mycol. 1893, p. 276.

*Hab.* in foliis subvivi Fraxini americanæ pr. Washington Amer. bor. (WAITE). — Perithecia 150  $\mu$ . diam., setulis 30-40  $\approx$  4 conspersa; asci 35  $\approx$  15; sporidia 3-4-septata, 25-30  $\approx$  4-5, constricta, hyalino-flavidula.

3. **Acanthostigma Alni** Rostr. Till. Grönl. Svamp. p. 619. 2091

*Hab.* in ramis decorticatæ Alni ovatæ, in Groëlandia. — Perithecia 100  $\mu$ . diam. setulis rigidulis vestita; asci 45-50  $\approx$  9-10; sporidia 3-septata, hyalina, 11-13  $\approx$  5.

**BOMBARDIASTRUM** Pat. Bull. Soc. Myc. 1893, p. 153 (Etym. a *Bombardia* cui accedit). — Perithecia superficialia, sparsa v. gregaria, ovoidea, stipitata, carbonacea, pulvere læte colorato obducta. Asci 8-spori, paraphysati; sporidia hyalina, elongato-fusiformia, multi-septata.

1. **Bombardiastrum andinum** Pat. Bull. Soc. Myc. 1893, p. 153. 2092

*Hab.* in ramulis putridis dejectis, Pululahua Æquatorix. — Perithecia 600  $\mu$ . alt., 300  $\mu$ . cr.; asci 200  $\approx$  20; sporidia 75-90  $\approx$  8-10, multiseptata, hyalina.

**HERPOTRICHIA** Fuck. — Syll. II, p. 211, IX, p. 856.

1. **Herpotrichia cerealium** Delacr. Bull. Soc. Myc. 1891, pag. 104, 2093  
t. VII, f. 6.

*Hab.* in culmo Secalis et Tritici putrescenti, Parisiis. — Perithecia 320  $\mu$ . diam., flexuoso-pilosa; asci fusoides; sporidia constricto-5-7-septata, hyalino-luteola, 37  $\approx$  6, subinde utrinque apiculata.

2. **Herpotrichia tonkiniana** Pat. Bull. Soc. Myc. 1892, p. 51, t. VII, 2094  
fig. I.

*Hab.* in fragmentis ligneis putridis, Tonkin (BON). — Perithecia 1 mm. diam., villosa, apice glabra, rubra; asci 170  $\approx$  12-15; sporidia constricto-3-septata, luteola, 42-45  $\approx$  7-8.

3. **Herpotrichia incisa** E. et E. New sp. North Amer. Fung. in Pro. 2095  
ceed. Acad. S. N. Philad. 1893, p. 130.

*Hab.* in radicibus emortuis *Aceris spicati*, Canada (DEARNESS). — Perithecia 300-400  $\mu$ . diam., initio pilosula; asci 150-200  $\approx$  12-15; sporidia 1-septata subhyalina, 35-45  $\approx$  7-8, leviter constricta.

4. **Herpotrichia nicaraguensis** Ell. et Ev. Bull. Univ. Jowa 1893, 2096 p. 400.

*Hab.* in lignis putridis, Ometepe Amer. centr. (SMITH). — Perithecia 0,5-0,7 mm. lat., pruinoso-pilosa; asci jam resorpti; sporidia 1-septata, hyalina, dein olivaceo-brunnea 8-10  $\approx$  5 — « *An Neopeckia?* ».

**ZIGNOELLA** Sacc. — Syll. II, p. 214, IX, p. 860.

1. **Zignoella Hederæ** Lamb. et Fautr. Rev. mycol. 1894, p. 117. 2097

*Hab.* in ligno *Hederæ* emortuo, Côte-d'Or Galliæ. — Perithecia aggregata, superficialia; asci 8-spori; sporidia 5-septata, medio constricta, hyalina, 20-23  $\approx$  4.

2. **Zignoella nyssogena** E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 137. 2098

*Hab.* in cortice subvivo *Nyssæ multifloræ*, Newfield N. J. Amer bor. — Perithecia 150  $\mu$ . diam.; asci 35-60  $\approx$  10-12; sporidia 1-3-septata, flavido-hyalina, 13-15  $\approx$  4-5.

3. **Zignoella ligustrina** Passer. Diagn. Fung. nuov. V, n. 18. — Pe- 2099

ritheciis plus minus dense gregariis, cortici immersis, ostiolo punctiformi nigro, epidermidem perforantibus, basi ligno adnatis, cortice elapso nudatis, subglobosis, rugosulis, atris; ascis tubulosis, basi longe attenuatis, paraphysibus longioribus cinctis, 65-85  $\approx$  5-6; sporidiis octonis, distichis vel oblique monostichis, fusiformibus, utrinque acuminatis, primo medio septatis, dein 3-septatis, rectis vel leniter curvis, hyalinis, 22,5  $\approx$  2,5-3

*Hab.* in ramis siccis *Ligustri vulgaris*, socia *Ostropa cinerea*, Collecchio, Parma Ital. bor.

4. **Zignoella fuispora** Wegelin Beitr. Pyr. Schw. p. 4, t. II, f. 14- 2100  
15 (*Trematosphæria*).

*Hab.* in asseribus pineis in humidis, Emmenthal Helvetiæ. — Perithecia 0,3-0,5 mm. diam.; asci cylindrici; sporidia triseptata, hyalina, 35-45  $\approx$  4-5.

5. **Zignoella Büttneri** Rehm Verh. bot. Var. Brand. XXXI, p. 65. 2101

*Hab.* in corticibus arborum pr. Gabun Africae. — Perithecia 0,4-0,7 mm. diam.; asci 75-90  $\approx$  18; sporidia 3-septata, hyalina, 15-17  $\approx$  7-8. E sect. *Trematostoma*.

6. **Zignoella boreella** Karst. Hedw. 1891, p. 247. — Peritheciis cæ- 2102  
spitosis vel arcte gregariis, superficialibus, rotundatis vel difformi-  
bus, solito depressis et rugulosis, atris, glabris, vix pertusis minu-  
tis; ascis cylindraceutis, 50-60  $\approx$  6; sporidiis octonis, oblique mono-  
stichis, fusoside-oblongatis, rectis, 3-septatis, ad septa non constri-  
ctis, hyalinis, 10-12  $\approx$  3-5; paraphysibus coalitis.

*Hab.* supra discum Valsæ boreellæ ad sinum Kolaensem Fennicæ.

7. **Zignoella culmicola** Delacr. Bull. Soc. Myc. 1891, p. 106, t. VII, f. c. 2103

*Hab.* in culmo exsiccato Graminacæe cujusdam, Rouen Gallicæ. — Perithecia 150  $\mu$ . lat. atro-violacea; asci 70  $\approx$  13; sporidia 3-septata, utrinque attenuata, hyalina. « Verisimiliter *Gibbrella* ». Adest simul *Periconicæ* species hyphis 480  $\approx$  9, conidiis levibus, 5  $\mu$ . diam. atris.

8. **Zignoella fallaciosa** Rehm Hedw. 1891, p. 257. 2104

*Hab.* ad ramos decorticatos Salicis, Fagi, Corni, Fraxini in Helvetia. — Perithecia 0,2-0,3 mm. diam.; asci 100-120  $\approx$  21-24; sporidia 21-25  $\approx$  8-10, hyalina, 1-septata.

9. **Zignoella erumpens** Cooke Grev. XX, p. 36. — Sparsa v. aggregata, erumpenti-superficialis; peritheciis globoso-papillatis, nigris, levibus 0,3 mm. diam.; ascis tereti-clavatis, 8-sporis; sporidiis fusosideo-ellipsoideis, constricto-1-septatis, binucleatis, hyalinis 15-16  $\approx$  4.5. 2105

*Hab.* in ramis emortuis, Victoria Australiae (MARTIN).

**WINTERIA** Rehm — Syll. II, p. 225, IX, p. 870.

1. **Winteria Zahlbruckneri** Bäuml. Zur Pilzfl. Niederöst. VI, p. 94. 2106

*Hab.* in radicibus pineis denudatis, in Austria inferiore. — Perithecia brunneo-cyanea, conica, 0,3 mm. diam.; asci 80-90  $\approx$  14-16; sporidia 3-septata, subhyalina, 20-24  $\approx$  8-10.

2. **Winteria culmigena** Karst. et Malbr. in Le Bret. et Niel Champ. Norm. Liste p. 154. 2107

*Hab.* in culmis siccis, Rouen Gallicæ. — Perithecia aggregata globoso-conoidea, contextu cœruleo; asci 65  $\approx$  11; sporidia 3-septata, hyalina, 24  $\approx$  6. — « Verisimiliter *Gibberella* ».

**CERATOSPHERIA** Niessl — Syll. II, p. 227.

1. **Ceratosphæria castillensis** C. L. Smith Bull. Univ. Jowa 1893, 2108  
p. 403.

*Hab.* in corticibus, Castillo viejo Amer. centr. (SMITH). — Pe-

Perithecia 0,5 mm. diam., piloso-tomentella, ostiolo 0,5-0,7 mm. long.; asci 75-85 = 8-10; sporidia 3-septata, hyalina, 25-28 = 3,5.

2. **Ceratosphæria microspora** Pat. Bull. Soc. myc. 1892, p. 131. 2109

*Hab.* in ramulis putrescentibus, Quito Æquatoriæ. — Perithecia 0,5 mm. lat., immersa, ostiolo 0,5-2 mm. long.; asci 30-40 = 8-10; sporidia 1-3-septata, hyalina, 10 = 2-3.

**CALOSPORA** Sacc. — Syll. II, p. 231, IX, p. 871.

1. **Calospora Platanoidis** (Pers.) Niessl — Syll. II, p. 231. — var. **Sorbi** Destrée et Röll. in Rev. mycol. 1894, p. 160. 2110

*Hab.* in cortice Sorbi Ariæ, Scheveningue Hollandiæ (DESTRÉE). — Asci 90 = 20; sporidia 3-septata, hyalina, sæpe appendiculata, 20-25 = 4-6.

2. **Calospora Vanillæ** Masee Gard Chron. 1891, p. 160, Zeitschr. f. Pflanzenkr. 1892, p. 362. 2111

*Hab.* in foliis Vanillæ planifoliæ, cui valde noxia, in insulis Seychelles, Reunion et Mauritius. — Perithecia in collum attenuata; asci 90-100 = 12-14, paraphysati 8-spori; sporidia 15-16 = 5, 3-septata, hyalina. Simul adsunt st. conidiophorus (*Hainesia*) et spermogonicus (*Cylospora*).

**SYDOWIA** Bresad. in Hedw. 1895 pag. (66). (Etym. a cl. botanico P. Sydow). — Perithecia cæspitosa, rarius subsolitaria, membranaceo-coriacea, atra, subglobosa vel obovata, epapillata, apice pertusa, subiculo dematiaceo insidentia. Asci cylindraceo-subclavati, polyspori, aparaphysati. Sporidia clavato-subfusoidea, hyalina, 3-septata.

1. **Sydowia gregaria** Bres. l. c. 2112

*Hab.* in ramis corticatis Abietis excelsæ, Steglitz pr. Berlinum (P. Sydow). — Perithecia 300-500  $\mu$ . diam., atra, subrotunda; asci 130-150 = 14-20; sporidia 20-26 in quoque asco, clavato-fusoidea, 15-20 = 6, hyalina, 3-septata.

### Sect. 8 Phæodictyæ

**PLEOMASSARIA** Speg. — Syll. II p. 239, IX p. 872.

1. **Pleomassaria allospora** (Oth) Jaczews. Bull. Herb. Boiss. II p. 687, *Cladosphæria* Oth in Mittheil. Bern. 1870, p. 109. 2113

*Hab.* in ramis Fraxini pr. Berne Helvetiæ (Oth). — Perithecia cortice innata, ostiolo papillato prominulo; asci 175 = 12-13;

342 Pyrenomycetæ, Sphæriacæ, Phæodictyæ, Pleospora.

sporidia 20-23 = 11-12, brunnea, 3-septato-muriformia, mucro hyalino verruculoso obducta, septis longit. 1-seriatis.

2. **Pleomassaria Ammophilæ** Oud. Contrib. Fl. myc. Pays-Bas XV 2114 p. 10, et Hedw. 1894, p. 17. — Perithæciis ætate obsoletis; ascis 8-sporis, paraphysibus numerosis; sporidiis halone hyalino cinctis, 7-septato-muriformibus, brunneis, medio constrictis, 18-23 = 9-12.

*Hab.* ad culmos *Ammophilæ* in dunis Hollandiæ (DESTREE).

3. **Pleomassaria Rosæ** Oud. Contr. Myc. Pays-bas XIV, p. 35. 2115

*Hab.* in ramis *Rosæ* in dunis Hollandiæ (DESTREE). — Perithecia atra, sat crassa; asci 130 = 28, 4-8-spori; sporidia 7-septato-muriformia, mellea, 35 = 10, strato mucoso hyalino obducta. Teste Berl. Icon. Fung. II p. 3, species hæc non distinguitur a *Pleosporæ herbarum* typo.

**KARSTENULA** Speg. — Syll. II, p. 340, IX, p. 873.

1. **Karstenula carpinicola** (E. et E.) Berl. Icon. fung. II, p. 4, t. IV, <sup>bis</sup> 2116 fig. 1. *Pleospora carpinicola* E. et E. in Proceed. Acad. S. N. Philad. 1893, p. 135.

*Hab.* in ramis emortuis *Carpini americanæ*, Canada (DEARNESS). — Perith. depresso-globosa 0,3 mm. diam.; asci 100-110 = 8-9 (150-160 = 12-14, sec. Berl.); sporidia triseptata, parce muriformia, 14-18 = 7-8 (20-24 = 8-10, sec. Berl.) pallide flava.

**PLEOSPORA** Rab. — Syll. II, p. 241, IX, p. 873.

A. *Eu-Pleospora* Sacc.

1. Sporidia 3-5-septata.

1. **Pleospora richtophensis** Ell. et Ev. Proc. Acad. Phil. 1894, 2117 p. 335.

*Hab.* in caulibus emortuis *Helianthi*, Colorado Amer. bor. (BAKER). — Perith. 300-400  $\mu$ . diam.; asci 85-110 = 20-22; sporidia 5-septato-muriformia, flavo-brunnea, 25-35 = 12-14. — *Sphæria Naudini* Roum. F. Gall. 4; 1282 (in *Bauhinia*) est forma *Pleosporæ herbarum*.

2. **Pleospora verbenicola** Passer. Diagn. funghi nuovi V, n. 19. — 2118 Peritheciis in matrice non mutata sparsis vel subgregariis, minutis, subglobosis, basi non fibrillosis ostiolo punctiformi erumpente; ascis tubuloso-clavatis, aparaphysatis, breviter noduloso-stipitatis, 52-60 = 10, 8-sporis; sporidiis distichis, elongato-ellipticis, 5-septatis, raro

3-4-septatis, ad septa non vel vix constrictis flavis 10-12 = 5, loculo uno alterove septulo longitudinali divisis, nullo inflato.

*Hab.* in caulibus siccis *Verbenæ officinalis*, socia *Rhabdospora verbenicola* (probabili spermogonio), Vigheffio, Parma Ital. bor. *Pleosporæ oblongatæ* Niessl. affinis, sed peritheciis non fibrillosis, ascis brevioribus sporidiisque minoribus et spermogonii consortio videtur distinguenda.

3. **Pleospora parvula** Berl. Icon. Fung. II, p. 5, t. V, fig. 1. 2119

*Hab.* in ramulis *Berberidis vulgaris*, Montpellier Galliæ. — Perithecia globosa-conoidea 0,3 mm. diam.; asci cylindranei 60-70 = 10; sporidia 12-15 = 6, 3-septata parceque muriformia, mellea.

4. **Pleospora microsperma** Sacc. Fungi Abyss. pag. 5, tab. XX, fig. 6. 2120

— Peritheciis sparsis subcutaneis, vix erumpentibus, nigris, glabris, globoso-depressis, brevissime papillatis,  $\frac{1}{4}$  mm. diam.; ascis teretibus clavatis apice rotundatis, brevissime stipitatis, 75-80 = 9-10, octosporis; sporidiis subdistichis oblongo-clavatis, utrinque obtuse acutatis, rectis, 15-18 = 5,5-6,5, quineseptatis, septis longitudinalibus 2-3 divisis, ad septum medium constrictis, olivaceo-fuliginosis; paraphysibus filiformibus.

*Hab.* in ramulis corticatis arboris ignotæ, M. Dongolla pr. Ghinda Erythrææ. — Sporidiis superne crassioribus a *P. oblongata*, ascis sporidiisque minoribus a *P. infectoria* dignoscenda species.

5. **Pleospora hysterioides** E. et E. New West-Amer. Fung. pag. 19 2121  
in *Erythea* Vol. II, 1894.

*Hab.* in culmis emortuis *Andropogonis nutantisæ* et *Sporoboli asperi*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 150  $\mu$ . diam. v. 200-300 = 150; asci 60-75 = 12-18; sporidia 3-septato muriformia, 15-20 = 3-10, e latere 6-8  $\mu$ . crass., straminea.

6. **Pleospora alpestris** Ell. et Ev. Proc. Acad. Phil. 1894 p. 336. 2122

*Hab.* in caulibus emortuis *Trollii laxi*, Colorado Amer. bor. (CRANDALL). — Perith. 250  $\mu$ . diam.; asci 150 = 25-30 sæpius bispori; sporidia 50-65 = 16-24, flavo-brunnea, 9-12-septato-muriformia.

## II. Sporidia 7-pluriseptata

7. **Pleospora Robertiana** Boy. et Jacz. Mat. myc. Montpell. p. 26, 2123  
fig. 2.

*Hab.* in ramulis siccis *Genistæ Scorpii*, Montarnaud pr. Montpellier. — Perithecia globulosa, hyphis basi cincta, ostiolo setuloso. « An ergo *Pyrenophora*? » Asci 100-125 = 27-30; sporidia 7-8-septato-muriformia, 35 = 14, lutea, (Dicata ROBERTO CHODAT).



8. **Pleospora diplospora** E. et E. New West-Amer. Fung. p. 20 in 2124  
Erythea Vol. II, 1894.

*Hab.* in caulibus emortuis *Asclepiadis incarnatæ*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 150-220  $\mu$ . diam.; asci 70-80 = 25-35; sporidia 3-septata demum 5-7-septato-muriformia, 24-30 = 10-15 e latere 7-8  $\mu$ . crassa, straminea dein brunnea.

9. **Pleospora decipiens** E. et E. in Proceed. Acad. S. N. Philad. 1893, 2125  
p. 135.

*Hab.* in ligno decorticato et dealbato *Azaleæ*, Newfield N. J. Amer. bor. — Perith. 0,7  $\mu$ . diam. collabentia; asci 55-65 = 15-20; sporidia 5-7-septato-muriformia, dilutissime flavida, 35-40 = 10-12.

10. **Pleospora occultata** Oudem. Contrib. Fl. myc. Pays-Bas XV, p. 10. 2126

— Peritheciis immersis, depressis, coriaceis, atris; ascis breviter pedunculatis 8-sporis 125 = 14; paraphysibus latis, curvulis; sporidiis flavidis, ellipticis, 7-septatis, septo longitudinali, 35 = 4.

*Hab.* ad folia *Elymi arenarii*, in Hollandia.

11. **Pleospora Magnusiana** Berl. Icon. fung. II, p. 15, XIX, fig. 2. 2127

*Pl. pentamera* Berl. Monogr. p. 77, nec Karst.

*Hab.* in culmis et foliis *Glyceriæ Vahlianæ* in Gotlandia (MAGNUS). — Perithecia globoso-conoidea; asci 110-120 = 28-32; sporidia 30-33 = 12-15, fuliginea, 6-septato-muriformia, inæquilatera.

#### B. *Scleroplea* Sacc.

12. **Pleospora Trochila** (Fr.) Sacc. *Pyrenophora Trochila* (Fr.) Starb. 2128  
Stud. p. 39, f. 22, *Sphæria* Fr. herb.

*Hab.* in ramis, Kamtschatka. — Perithecia sclerotioideo-coriacea, glabra, dein patellata; asci 180-200 = 23-30; sporidia 6-7-septato-muriformia, olivaceo-fusca, 30-36 = 10-12.

**PYRENOPHORA** Fr. — Syll, II, p. 277. IX p. 895.

1. **Pyrenophora canadensis** Ell. et Ev. Proc. Acad. Phil. 1894, 2129  
p. 336.

*Hab.* in vaginis *Phlei pratensis*, Canada (DEARNESS). — Perith. 250-300  $\mu$ . diam. setulis 50-80 = 5-6 apice vestita; asci 150-190 = 28-32; sporidia 3-septata parceque muriformia, 40-55 = 15-20, subhyalina. Si sporidia vere et diu hyalina sint, non genuina *Pyrenophora*.

**PHÆOPELTOSPHÆRIA** Berl. Micr. Tosc. in N. G. B. it. 1892, p. 139,  
(Etym. *phæos* obscurus et *Peltosphæria*). Perithecia innata, clypeo

stromatico nigro tecta; asci octospori; sporidia fusoidea, pluri-septata, parce muriformia, olivacea v. fusca.

1. **Phæopeltosphæria caudata** Berl. l. c. t. VIII, f. 2. 2130

*Hab.* in ramulis corticatis plantæ cujusdam, Vicopelago Etruriæ (BECCARI). — Perithecia 0,3 mm. diam.; asci 165-175 = 14; sporidia fusoidea, basi subcaudata, 38-45 = 8-10, melleo-fuscidula, 5-7-septata, loculo uno alterove long. diviso.

**TEICHOSPORA** Fuck. — Syll. II, p. 291. IX p. 899.

1. **Teichospora fulgurata** E. et E. New west-Amer. Fung. 18 (Ery. 2131 thea Vol, II, 1894).

*Hab.* in ligno aeri diu exposito Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). Perithecia 250  $\mu$ ; asci 70 = 7-8 (p. sp.); sporidia 3-septata parceque muriformia, 12-16 = 5-6, brunnea.

2. **Teichospora nubilosa** Ell. et Ev. Proc. Acad. Phil. 1894, p. 332. 2132

*Hab.* in cortice Celtidis occidentalis, Kansas Amer. bor. (BARTHOLOMEW). Perithecia 250 = 220; asci 70-75 = 10-12; sporidia constricto-3-septata, submuriformia, brunnea.

3. **Teichospora crossota** Ell. et Ever. Proc. Acad. Phil. 1894 p. 331. 2133

*Hab.* in cortice Ulmi, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 150 = 200  $\mu$ . diam.; asci 75 = 10-12; sporidia 3-septata, subconstricta, flavo-brunnea, 12-15 = 8-9.

4. **Teichospora aspera** E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 131. 2134

*Hab.* in ligno aeri diu exposito Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). — Perith. 0,5 mm. diam. tuberculosa; asci 75-90 = 10-12; sporidia 3-septata, parce muriformia, brunnea, 15-20 = 6-8.

5. **Teichospora insecure** Ell. North. Am. Pyr. p, 214. 2135

*Hab.* in ramis decorticatis dealbatis Salicis, Utah Amer. bor. (H. HARKNESS). — Perith. 0.5 mm. diam.; asci 130-135 = 18; sporidia 24-26 = 8-10, brunnea, 3-septato-muriformia.

6. **Teichospora ohioensis** Ell. et. Ev. Proc. Acad. Philad. 1894. 2136 p. 329.

*Hab.* in ligno indurato, Ohio Amer. bor. (MORGAN). — Perithecia conferta 300-400  $\mu$ . diam.; asci 55-62 = 7-8; sporidia 1-3-septato-muriformia, flavido-hyalina, 10-12 = 6-8. — An *Teichosporella*?

7. **Teichospora nucis** E. et E. New Fung. Proceed. Acad. N. Sc. 2137 Philad. 1893, pag. 446.

*Hab.* in nucibus vetustis dejectis Caryæ, Newfield N. J.

Amer. bor. — Perithecia 125-150 × 100-110; asci 70-75 × 12-15; sporidia 5-septata parceque muriformia 14-18 × 8, flavo-brunnea.

8. *Teichospora amygdaloides* Ell. et Ev. Proc. Acad. Phil. 1894, 2138 p. 330.

*Hab.* in cortice *Salicis amygdaloidis*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 250-350  $\mu$ . diam. collabentia; asci 75-85 × 18-21; sporidia 5-septata parceque muriformia, flavo-brunnea, 20-22 × 10-13.

9. *Teichospora nautica* E. et E. in Proceed. Acad. S. N. Philad. 1893, 2139 p. 131.

*Hab.* in ramis *Populi decorticatis*, Montana Amer. bor. — (FITCH). — Perithecia 0,5 mm. diam.; asci 110-110 × 12; sporidia 5-septata, parce muriformia, 18-22 × 8-11.

10. *Teichospora gregaria* E. et E. in Proceed. Acad. S. N. Philad. 2140 1893, p. 130.

*Hab.* in ramis decorticatis *Fraxini*, Canada (DEARNESS). — Perithecia 0,3-0,5 mm. diam.; asci 75 × 14 (p. sp.); sporidia 5-septato-muriformia, 18-22 × 10-12, flavo-brunnea.

11. *Teichospora variabilis* E. et E. in Proceed. Acad. S. N. Philad. 2141 1893, p. 131.

*Hab.* in caulibus *Artemisiæ*, Montana Amer. bor. (FITCH). Perithecia 0,3-0,5 mm. diam.; asci 75-80 × 20-22; sporidia 5-7-septato-muriformia, 20-25 × 12, flavo-aurea.

12. *Teichospora nigro-brunnea* (Schw.) Starb. Stud. pag. 41, f. 21, 2142 *Sphæria* Schw. — Syll. II, 408. — Perithecia 175-250  $\mu$ . diam.; asci 100-125 × 12-15; sporidia 19-22 × 8-10, 5-6-septato-muriformia, ex flavido olivaceo-fusca. — (In palis *Robinia*).

13. *Teichospora rhyodes* Ell. et Ev. Proceed. Acad. Phil. 1894, 2143 p. 331.

*Hab.* in trunco decorticato *Rhois*, Michigan Amer. bor. (JOHNSON). — Perithecia 0,3 mm. diam.; asci 100-110 × 12; sporidia 6-7-septata parceque muriformia, flavo-brunnea, 15-18 × 7-8. Adest simul *Macrophoma rhoina* E. et E. l. c.: sporulis 18-22 × 6-7, hyalinis.

14. *Teichospora clavispora* Ell. et Ev. Proc. Acad. Phil. 1894, p. 330. 2144

*Hab.* in cortice *Negundinis aceroidis*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 250-300  $\mu$ . diam.; asci 100-120 × 14-15; sporidia 8-10-septato-muriformia, brunnea, 30-35 × 10-12.

15. *Teichospora piriospora* Ell. et Ev. Proc. Acad. Phil. 1894, p. 331. 2145

*Hab.* in cortice subvivo *Fraxini viridis*, Kansas Amer. bor.

(BARTHOLOMEW). — Perithecia 0,7 mm. diam.; asci 100-110 × 15-18; sporidia piriformia, 6-11-septato-muriformia, flavo-brunnea, 35-45 × 12-15.

16. *Teichospora tingens* Weg. in Rehm Ascom. n. 1036 et Hedw. 2146  
1891, p. 257 (*Strickeria*).

*Hab.* in ligno decorticato fraxineo ad fluv. Emmer Helvetiæ (WEGELIN). — Perithecia matricem sanguineo tingentia, 0,4-0,6 mm. diam.; asci 150-175 × 18-24; sporidia demum 8-septato-muriformia, ex aureo fusco-nigra 25-30 × 8-10.

17. *Teichospora longispora* (Wegelin) Sacc. *Strickeria longispora* 2147  
Wegelin Beitr. Pyr. Schw. p. 5, t. II, f. 21-23.

*Hab.* in ramis decorticatis salicinis et fraxineis prope Burgdorf Helvetiæ. — Perithecia ellipsoideo-depressa, 0,3-0,6 mm. long., 0,2-0,3 mm. lat.; asci 150-190 × 14-15; sporidia 8-10-septato-muriformia, brunneo-aurea, 32-44 × 7-9,5.

18. *Teichospora tuberculata* Ell. et Ev. Proc. Acad. Phil. 1894, p. 330. 2148

*Hab.* in ligno emortuo Liriodendri, Ohio Amer. bor. (MORGAN). — Perithecia 300 × 200, conica, rugosa; asci 110 × 20; sporidia multiseptato-muriformia, tandem brunnea, 19-22 × 11-13.

19. *Teichospora melanconioides* Rehm in P. Henn. F. Afr. p. 365 2149  
(abique diagnosi)

*Hab.* in corticibus arborum, Togo Africae (BÜTTNER).

**PLEOSPHÆRIA** Speg. — Syll. II, p. 304, IX, p. 910.

1. *Pleosphæria corticola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 332. 2150

*Hab.* in cortice emortuo Pini rigidæ, Nuttallburg, in Virginia occid. (NUTTALL). — Perithecia 300-400 μ. diam., pilis 100-200 × 5-6, opacis vestita; asci 80-100 × 20-25; sporidia 5-7-septato-muriformia, olivaceo-brunnea.

2. *Pleosphæria patagonica* Speg. — Syll. IX, p. 911. — var. **Salicis** 2151

Roll. et Fautr. Rev. Mycol. 1894, tab. CLXI, f. 8. — Peritheciis sparsis, globulosis, 150-200 μ. diam., fragilibus, submembranaceis, atris, pilis raris brevibus 28-70 μ. septatis, atro-brunneis conspersis; ascis cylindraceo-conicis, brevistipitatis, aparaphysatis, 50-60 × 12-14, octosporis; sporidiis subdistichis, fusiformi-ellipsoideis, 3-septatis, demum septo longitudinali partitis, griseo-fuligineis, 12-18 × 5-7.

*Hab.* ad truncos Salicis, Côte-d'Or in Gallia.

3. *Pleosphæria chlorospora* E. et E. North Am. Pyr. p. 219 (*Teichospora*). 2152

*Hab.* in ramis decorticatis dejectis *Quercus*, Newfield N. J. Amer. bor. — Perithecia 150–200  $\mu$ . diam., setulis 50–80  $\mu$ . long., atris vestita; asci 65–75 = 15–20; sporidia 5-septata, parce muriformia, 16–20 = 8–10, olivaceo brunnea.

**CUCURBITARIA** Gray — Syll. II, p. 367, IX, p. 915.

1. **Cucurbitaria borealis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 334. 2153

*Hab.* in cortice ramorum *Salicis*, New York Amer. bor. (SHEAR). — Perithecia 6–12 in quoque cæspitulo, 0,3–0,5 mm. diam.; asci 90–110 = 15–16; sporidia 7-septato-muriformia, flavo-brunnea, 20–27 = 12–14.

2. **Cucurbitaria populina** (Bacc. et Av.) Rehm in Schnab. Berichte bay. bot. Gesell. 1892, II, p. 65, *Cucurbitaria salicina* var. *populina* Bacc. et Av. Contrib. Micol. rom. p. 19, t. I, f. 13–17. 2154

*Hab.* ad corticem *Populi* nigræ in Italia et Bavaria. — A *C. salicina* differt sporidiis sex-septatis (nec octo-septatis) et septis longitudinalibus 1-seriatis (nec biseriatis).

3. **Cucurbitaria Kmetii** Baumler F. Schemnitz. III, p. 8. 2155

*Hab.* in ramis corticatis *Pruni domesticæ*, pr. Schemnitz. — Perithecia cæspitosa 0,5 mm. diam.; asci 130–150 = 8–10; sporidia 5–7-septato-muriformia, 16–20 = 8–10, flavo-fulva.

4. **Cucurbitaria Destreæ** Oud. Contrib. Fl. myc. Pays-Bas XV, p. 10. 2156

— Peritheciis cæspitosis, globulosis, glabris, atris, rugulosis, summitate pertusa depressis; ascis cylindræis, 8-sporis; sporidiis monostichis, elliptico-elongatis, e brunneo nigrescentibus, medio constrictis, 5–7-septatis, 50 = 11–12.

*Hab.* in ramis *Rhododendri* culti in Hollandia (DESTREË).

5. **Cucurbitaria Abrotani** Fautr. Rev. Mycol. 1895, pag. 70, t. 153, fig. 5. 2157

*Hab.* in ramulis siccis *Artemisiæ Abrotani*, Côte-d'Or Galliæ. — Perithecia depressa, nigra; asci 80–100 = 10–18; sporidia 20–22 = 9–10, 5 septato-muriformia, medio constricta, flava.

**THYRIDIUM** Sacc. — Syll. II, p. 323, IX, p. 920.

1. **Thyridium Betulæ** Fautr. Rev. Myc. 1891, p. 165. 2158

*Hab.* in ramis emortuis *Betulæ* albæ, Côte-d'Or Galliæ. — Perithecia 8–15 in quoque stromate; asci cylindræi; sporidia oblonga, brunnea, 5-septato-muriformia (mensuræ desiderantur).

2. **Thyridium americanum** E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 139. 2159

*Hab.* in ramis putrescentibus *Xanthoxyli americani*, Canada (DEARNESS). — Perithecia 200-400  $\mu$ . diam.; asci 100-115 = 12-15; sporidia 3-septata, submuriformia, 14-17 = 8-9. Adsunt simul status secundarii; cfr. l. c.

3. **Thyridium Syringæ** E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 139. 2160

*Hab.* in trunco emortuo *Syringæ*, Canada (DEARNESS). — Perithecia 0,5 mm. diam.; asci 75-80 = 12; sporidia 3-4-septata parceque muriformia, flavo-brunnea, 12-15 = 5-7.

**FENESTELLA** Tul. — Syll. II, p. 325, IX, p. 922.

1. **Fenestella ulmicola** E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 143. 2161

*Hab.* in ramis emortuis *Ulmii americanæ*, Canada (DEARNESS). — Perithecia 6-12 circinata, stromate flavido immersa, 0,5-0,7 mm. diam.; asci 110-120 = 12; sporidia 5-septato-muriformia brunnea, 12-16 = 7-8.

2. **Fenestella canadensis** E. et E. North Am. Pyr. p. 545. 2162

*Hab.* in cortice emortuo *Carpini*, Canada Amer. bor. (DEARNESS). — Perithecia 3-10 in quoque stromate; asci 110-115 = 15 (p. sp.); sporidia 3-septata, parce muriformia, olivaceo-brunnea, utrinque hyalino-subapiculata, 22-30 = 10-12.

### Sect. 9. Hyalodictyæ.

Sporidia pluri-septato-muriformia v. clathrata, hyalina \*).

#### Clavis analytica generum Hyalodictyarum

##### A) Simplices.

##### a. Subcutaneæ v. demum erumpentes.

##### † Asci suboctospori.

*Pleosphærulina*. Paraphyses nullæ; perithecia exigua, sine clypeo.

*Catharinia*. Paraphyses præsentis; perithecia mediocria, sine clypeo.

*Peltosphæria*. Paraphyses præsentis; perithecia mediocria, clypeo stromatico tecta.

\*) Hujusce sectionis (quam ut partem *Dictyosporarum* hucusque habui), generibus et speciebus novis copiosisque continuo accedentibus, divisio *Hyalodictyarum* a *Phæodictyis* tandem, ut in ceteris familiis, opportuna visa est.

†† Asci 16-spori.

*Capronia*. Perithecia setulosa.

b. Superficiales.

*Teichosporella*. Perithecia erostrata.

*Rhamphoria*. Perithecia rostellata.

B) Stromaticæ, compositæ.

*Berlesiella*. Stroma pulvinatum, perithecia boytroso-prominula, setosa.

*Thyridella*. Stroma effusum, eutypeum; perithecia immersa.

*Clathridium*. Stroma subcirculare, valseum; perithecia immersa.

**PLEOSPHÆRULINA** Pass. Diagn. Funghi nuov. V, n. 17 (Etym. *pleo* pro *Pleospora* et *Sphærulina*). — Perithecia tecta, globosa vel lenticularia; asci aparaphysati, 8-spori; sporidia oblongata, pluriseptata, loculis uno vel pluribus sæpe longitudinaliter divisis, hyalina. A *Sphærulina* differt tantum sporidiorum loculis nonnullis septulo longitudinali divisis. Huic generi adscribenda sunt: **Pleosphærulina Dryadis** (Starb. sub *Sphærulina*) Sacc., **P. constricta** (Starb. sub *Sphærulina*) Sacc., **P. guaranitica** (Speg. sub *Pleospora*) Sacc., **P. sphærelloides** (Speg. sub *Pleospora*) Sacc.

1. **Pleosphærulina rosicola** Passer. l. c. — Peritheciis crebre sparsis 2163 vel gregariis, tectis, globoso-depressis, nucleo albo, ostiolo papillato vix epidermidem perforante, atris; ascis fasciculatis, saccatis vel ovato-elongatis, basi stipite laterali noduloso præditis, 8-sporis, 45–75 = 12,5; sporidiis subdistichis, clavatis 4–5 rarius, 6-septatis, ad septa, præcipue ad medium, leniter constrictis, hyalinis, loculis duobus vel tribus septulo longitudinali divisis, 12,5–20 = 5.

*Hab.* in ramulis siccis Rosæ caninæ Vigheffio, prov. Parma Ital. bor.

**CATHARINIA** Sacc. Syll. II, p. 275, IX, p. 892 (Etym. *catharos* purus, candidus). — Perithecia *Pleosporæ*; sporidia pluriseptato-muriformia, hyalina. — Huc ducenda sunt **Catharinia hyalospora** (Speg.) Sacc., **C. maritima** B. R. S., **C. argyrospora** (Harkn.) Sacc., **C. pachyasca** (Auersw.) Sacc., **C. pallida** S. et Sp., **C. americana** (E. et E.) Sacc., (= *Pleosp. hyalospora* E. et E., Syll. IX, p. 892), **C. Peltigeræ** (Fuck.) Sacc.

1. **Catharinia vitrea** (Rostr.) Sacc. *Pleospora vitrea* Rostr. Till. Grönl. 2164 Svamp. p. 620.

*Hab.* in foliis emortuis *Potentillæ maculatae*, in Groen-

landia. — Perithecia globoso-conica, minutissima; asci 45-50 = 20-22; sporidia 3-5-septata parceque muriformia, 21-23 = 9-10, perfecte hyalina.

**TEICHOSPORELLA** Sacc. — Syll. II, p. 303, IX, p. 908 (ut subgen.). — Huc ducendæ *Teichosporella dura*, *phellogena*, *obliqua*, *rostrata*, *patellaris*, *arthonioides*, *planiuscula*, *cervariensis*.

1. *Teichosporella montana* E. et E. in Proceed. Acad. S. N. Philad. 2165 1893, p. 132.

*Hab.* in lignis putrescentibus, Montana Amer. bor. (FITCH). — Perithecia 250-330  $\mu$ . diam., collabentia; asci 80-85 = 12-15; sporidia 3-5-septato-muriformia, 22-30 = 8-12, hyalina.

2. *Teichosporella Azaleæ* (Schw.) Cooke Grev. XX, p. 86, *Sphæria* 2166 *Azaleæ* Schw. Amer. bor. 1685. — Syll. II, p. 424. — Asci clavati; sporidia fusoides elliptica, obtusa, muriformia, hyalina, 25 = 10-12.

**THYRIDELLA** Sacc. — Syll. IX, p. 921 (ut subgenus). — Huc spectant *Thyridella Colliculus* (nec *Thyridium Philadelphi*, ut indicatur in Syll. IX, p. 921, quia vere phæosporum).

1. *Thyridella canadensis* E. et E. North Am. Pyr. pag. 416 (*Thyridium*) 2167

*Hab.* in ligno dealbato Coniferarum (?), Ontario, Canada (MACOUN). — Perithecia 250  $\mu$ . diam.; asci 100-120 = 12-15; sporidia 5-7-septato-muriformia, hyalina, 20-27 = 10-13.

#### Sect. 10. Scolecosporeæ.

**OPHIOBOLUS** Riess — Syll. II, p. 337, IX, p. 923.

1. *Ophiobolus Cytisi-Laburni* Fautr. Rev. Myc. 1891, p. 127. 2168

*Hab.* in ramis Cytisi Laburni, Côte-d'Or Galliæ. — Perithecia ligno insculpta, ostiolo corticem perforante; sporidia 240 = 1.5 subinde 150 = 2.5.

2. *Ophiobolus subolivaceus* Peck 46 Rep. p. 36. 2169

*Hab.* in caulibus emortuis Thalictri (?) Mechanicville Amer. bor. — Perithecia 300-350  $\mu$ . diam. depressa; asci tereti-clavati; sporidia 50-60 = 4, flavido-brunnea, 5-septata.

3. *Ophiobolus Galii-veri* Fautr. Rev. Myc. 1893, p. 21. 2170

*Hab.* in caulibus Galii veri Côte-d'Or Galliæ. — Perithecia



- innata, ostiolo cylindræo tantum emergente; sporidia 130-150  $\approx$  3, multiguttata, flavida, ascum æquantia.
4. **Ophiobolus consimilis** E. et E. North Am. Pyr. p. 394. 2171  
*Hab.* in caulibus emortuis Solani Lycopersici et Hibisci esculenti, Newfield N. J. et Louisiana Amer. bor. — Perithecia 200  $\mu$ . diam., ostiolo brevi-cylindræo; asci 75-100  $\approx$  8; sporidia multiseptata, asci longitudine 2  $\mu$ . crass., flavida.
5. **Ophiobolus brachysporus** Fautr. et Roum. Rev. Myc. 1892, p. 109. 2172  
*Hab.* in caulibus Urticæ dioicæ, Côte-d'Or Galliæ. — Perithecia globulosa, ostiolo longiusculo; asci 90-100  $\approx$  10; sporidia 50-60  $\approx$  4, dilute colorata, pluriguttata.
6. **Ophiobolus fragilisporus** Ell. et Ev. Proc. Acad. Phil. 1894, p. 337. 2173  
*Hab.* in caulibus herbaceis, Colorado Amer. bor. (CRANDALL). — Perithecia 350-450  $\mu$ . diam., ostiolo brevi-cylindræo; asci 150-200  $\approx$  5-5,5; sporidia ascum æquantia 1-1,2  $\mu$ . crass. in articulos 8-12  $\mu$ . long. facile dilabentia.
7. **Ophiobolus Andropogonis** E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 1893, p. 448. 2174  
*Hab.* in foliis emortuis Andropogonis muricati, Louisiana Amer. bor. (LANGLOIS). — Perithecia 220-250  $\mu$ . diam. ostiolo papillato; asci 60-80  $\approx$  8-10; sporidia 40-80  $\approx$  2-2,5 multiseptata flavida.
8. **Ophiobolus trechisporus** E. et E. North Am. Pyr. p. 394. 2175  
*Hab.* in culmis Graminacearum emortuis, Canada (DEARNESS). — Perithecia 400  $\mu$ . alt. ostiolo cylindræo-conico; asci 180-220  $\approx$  3-3,5; sporidia capillaria, flavido-hyalina 0,5  $\mu$ . crass.

**OPHIOCHÆTA** Sacc. Syll. II, p. 352, ut subg. (1883), IX, p. 934, *Acanthophiobolus* Berl. Descr. num. gen. Piren. p. 4, tab. XXII, fig. 1-2 (1892). Cl. Berlese ad hoc genus quoque ducit *Acanthostigma gracile* et *A. helminthosporum*. Hinc species typicæ generis (quod definiiri potest tamquam *Ophiobolus* peritheciis setosis) sunt: **Ophiochæta Penicillus**, **O. chætophora**, **O. incompta**, **O. helminthospora**, **O. gracilis**, **O. barbata**, **O. trichella**. — *Ophiobolus herpotrichus* et *pellitus* plenius inquirendi sunt.

**LINOSPORA** Fuck. — Syll. II, p. 354, et IX, p. 935.

1. **Linospora Brunellæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 337. 2176  
*Hab.* in foliis vivis Brunellæ vulgaris, Washington (SUKSDORF). — Clypeus perithecorum 0,3 mm. diam.; asci 80-90  $\approx$  12-15; sporidia 3-septata, hyalino-flavida, 55-65  $\approx$  3.

2. **Linospora Barnadesiæ** Pat. Bull. Soc. Myc. 1891, p. 174. 2177

*Hab.* in pag. inf. foliorum *Barnadesiæ spinosæ*, pr. Quito Æquatoriæ. — Perithecia 300  $\mu$ . lat.; asci 110-130  $\approx$  15; sporidia 65-70  $\approx$  5, guttulata, hyalina.

**OPHIOMASSARIA** Jaczewski Bull. Herb. Boiss. II, pag. 685 (Etym. *ophis* serpens et *Massaria*). — Perithecia cortice immersa, aggregata, globulosa-depressa, ostiolo papillato; asci clavati; sporidia tereti-fusoidea, 2-3-septata, flavido-hyalina, mucro hyalino obducta.

1. **Ophiomassaria selenospora** (Otth.) Jaczs. l. c. *Cladosphæria* Otth. 2178  
in Mitth. Bern. 1868, pag. 53.

*Hab.* in ramis *Alni*, Berne Helvetiæ (Оттн). — Perithecia peridermio pustulato tecta; asci 110  $\approx$  12-13; sporidia 40-50  $\approx$  4-5 bi-triseptata flavidula, mucro hyalino obducta. «An *Cryptospora suffusa*, imperfecte observata?».

**OPHIOCERAS** Sacc. — Syll. II, p. 358, IX, p. 938.

I. *Eu-Ophioceras*. Ostiolum rostellatum.

1. **Ophioceras ohioense** E. et E. North Am. Pyr. p. 198. 2179

*Hab.* in ligno putrescente, Ohio Amer. bor. (MORGAN). — Perithecia 1 mm. diam., ostiolo 1-2 mm. long.; asci 90-100  $\approx$  7-8; sporidia 8-12-septata, hyalina, 40-50  $\approx$  3,5-4.

II. *Acerbia* Sacc. \*) Ostiolum obsoletum v. papillatum (Huc forte quoque *O. longisporum* [Ellis] Sacc.).

2. **Ophioceras Hyptidis** P. Henn. Fung. goyaz. p. 108. 2180

*Hab.* in caulibus *Hyptidis* spec. Goyaz Brasiliæ (ULR). — Perithecia erumpenti-superficialia subgloboso-depressa, moriformia, 0,7 mm. diam. rugulosa, ostiolo obsoleto. Asci 100-120  $\approx$  7-8, octospori; sporidia filiformia, 30-36  $\approx$  2,5-3,5 continua, utrinque acuta, hyalina, subparallela.

**CRYPTOSPORA** Tal. — Syll. II, p. 301, IX, p. 939.

1. **Cryptospora kansensis** E. et E. New West-Amer. Fung. p. 21 in 2181  
*Erythea* Vol. II, 1894.

*Hab.* in ramis emortuis *Symphoricarpi vulgaris*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 6-12 subcircinata, 175-200  $\mu$ . diam.; asci 100-112  $\approx$  8-10; spor. 15-20  $\approx$  7-9, hyalina, 1-3-septata.

\*) JOS. ACERBI, mantuano (1773-1843) botanico-viatori strenuo dico subgenus.

## Fam. 4. Hypocreaceæ De Not.

## Sect. 1. Hyalosporæ.

**NECTRIELLA** Sacc. — Syll. II, p. 448, IX, p. 941.

1. **Nectriella Artemisiæ** Fautr. Rev. Myc. 1891, p. 125. 2182

*Hab.* in caulibus *Artemisiæ vulgaris*, Côte-d'Or Galliæ. — Perithecia superficialia, globoso-papillata, flavo-pallida; asci filiformi-stipitati; sporidia navicularia, 26-30  $\times$  12-14, continua, hyalina.

2. **Nectriella Maydis** Delacr. Bull. Soc. Myc. 1891, p. 105. 2183

*Hab.* in culmis exsiccatis *Zææ Maydis*, Rigny-sur-Arroux Galliæ (FLAGEOLET). — Perithecia 240  $\mu$ . diam., sordide cinnabarina; asci....; sporidia 15  $\times$  3,5-4,5, hyalina, 3-4-guttulata.

**HYPONECTRIA** Sacc. — Syll. II, p. 455.

1. **Hyponectria Penzigiana** Sacc. Fungi Abyss. p. 5, t. XX, fig. 7. — 2184

Peritheciis late effusis, confertis, epidermide infuscata tectis sed prominulis, globosis, vertice depresso-umbilicatis, 0,3 mm. diam., intus farctis, sanguineo-ochraceis (sub vitro), carnosulis; ascis fusoido-clavatis, breve crasse noduloso-stipulatis, 75-80  $\times$  12-13, apice rotundatis, octosporis; sporidiis distichis oblongo-ellipsoideis, utrinque rotundatis, 15-18  $\times$  7-8, prope medium lenissime coarctatis, numquam septatis, granulosis v. binucleatis, hyalinis, coacervatis dilutissime roseis; paraphysibus filiformibus, flexuosis, guttulatis.

*Hab.* in ramis *Euphorbiæ polyacanthæ* v. *abyssinicæ* in colonia *Erythræa*, socio *Glæosporio crocato*, quod verisimiliter status conidicus habendus est. — Perithecia trans epidermidem sordide rufa apparent; species præclaro Abyssiniæ exploratori dicata.

**BYSSONECTRIA** Karst. — Syll. II, p. 456, IX, p. 942.

1. **Byssonectria miliaria** Pat. Bull. Soc. Myc. 1893, p. 154. 2185

*Hab.* in pag. inf. foliorum dejectorum, Canzacoto Æquatoriæ. — Perithecia subiculo mucedineo albo inserta, globosa, aurantiaca, 200  $\mu$ . diam.; asci 50-60  $\times$  10; sporidia ovoidea, 1-septata, 10  $\times$  3, hyalina.

**POLYSTIGMA** Pers. — Syll. II, p. 458, IX, p. 945.

1. **Polystigma Melastomatum** Pat. Bull. Soc. Myc. 1891, p. 175, t. XII, 2186  
f. IV, ? *Phyllachora Melastomatis* (Fr.) Sacc. Syll. II, p. 611.

*Hab.* in pag. inf. foliorum Melastomaceæ cujusdam, Tambillo Æquatoriæ. — Sparsum, carnosum, suborbiculare, 1-3 mm. diam., nigro-brunneum; perithecia ovoidea, intus alba; asci 170  $\approx$  5; sporidia 10  $\approx$  8-9, continua, hyalina.

**PODOSTROMA** Karst. Hedw. 1892, p. 294, (Etym. *pous podos* pes et *stroma*). — Stroma stipitatum, clavatum, erectum, entomogenum, carnosum, læticolor; perithecia stromate immersa; asci cylindracei, 16-spori; sporidia sphæroidea, hyalina. «Cum *Hypochrea* III, *Podocrea* Sacc. nonnullis notis convenire videtur».

1. **Podostroma leucopus** Karst. l. c. 2187

*Hab.* in larva insecti cujusdam putri inter muscos in silva Syrjaäs Fenniæ. — Clavula alutaceo-pallida, 6 mm. long., 4 mm. cr., stipes albus, flexuosus, 5 cm. long., 2 mm. cr.; perithecia sphæroidea, poro pertusa; asci 75  $\approx$  4; sporidia 16, globosa, hyalina, 2-3  $\mu$ . diam.

**PENICILLIOPSIS** Solms. — Laubach — Syll. IX, p. 945.

1. **Penicilliopsis Dybowskii** Pat. Bull. Soc. Myc. 1892, p. 54, t. VII, 2188  
fig. 5.

*Hab.* in seminibus putridis Lianæ cujusdam gummiferæ, Congo Africæ. — Stromata conidiophora cæspitosa, flavo-brunnea 2-6 cm. long., 1-2 mm. crass., lateraliter stipites conidiophoros apice capitatos (*Sterigmatocystis* composita) gerentia, stipite rigidulo ex hyphis fasciculatis composito, 250-300  $\approx$  30-35, apice globoso-inflato 60  $\mu$ . diam.; conidia flavo-brunnea, 8  $\approx$  5, verruculosa, sterigmatibus ramosis fulta; stromata ascophora ignota.

### Sect. 2. Phæosporæ.

**SPHÆRODERMA** Fuck. — Syll. II, p. 459, IX, p. 949.

1. **Sphæroderma bulbiferum** Berl. Malp. V, p. 415, t. XXX, f. 12-14 2189  
et t. XXXI.

*Hab.* in foliis putridis Vitis, Cissi, Ampelopsidis, Avellino Ital. merid. — Perithecia 400-500  $\mu$ . diam. lateritio-ochracea, globoso-conoidea; asci 95-105  $\approx$  24-28; sporidia citriformla, 26-30  $\approx$  12-14, saturate fuliginea; quoad formas micro-macro-conidicas et bulbiferas cfr. Berl. l. c.

2. **Sphæroderma fimbriatum** Rostr. Oest. Grönl. Svampe pag. 25. 2190

*Hab.* in fimo Cervi Tarandi. in Groenlandia. — Perithecia minima sphæroidea, rubella, ostiolo fimbriato. Asci 100-110 = 20; sporidia 20 = 11-12, hyalina dein fusca.

**MELANOSPORA** Corda. — Syll. II, p. 461, IX, p. 950.

1. **Melanospora Coëmansii** West. X Notic. in Bull. Acad. Belg. 1857, 2191  
p. 579, fig. 8, Syll. II, p. 465 (nomen).

*Hab.* parasitice in maculis Phyllostictæ Donckelaeri ad folia Oncidii in Horto botanico. Gand Belgii. — Perithecia 250  $\mu$ . diam. flavo-cerina, rostro 0,7 mm. long., hispido, apice penicillato; sporidia 15 = 10 — *Melanospora cirrhata* Berk. Brit. Fungi IV, n. 325 (1843) est *M. vervecina* (Desm.) Fuck., Syll. II, p. 561.

2. **Melanospora globosa** Berl. Malpigh. V, p. 409, t. XXIX-XXX. 2192

*Hab.* in frustulis ligneis et herbaceis putridis, Avellino Ital. merid. — Perithecia globoso-ovoidea, 250-280  $\mu$ . diam. fusco-lutea, collo 360-500  $\mu$ . long., apice fimbriato; asci 55-60 = 48-50; sporidia citriformi-sphæroidea, saturate fuliginea, 18-21 = 16-17; quoad formas micro-macro-conidicas et bulbiferam cfr. Berl. l. c.

3. **Melanospora macrospora** Karst. in Hedw. 1891, p. 299. 2193

*Hab.* in radicibus tuberosis Brassicæ Napi var. Napobrassicæ ad Mustialam Fennicæ. — Perithecia 0,5 mm. lat., collo cylindræo multo brevior; asci 450-500 = 33-36; sporidia ovalia fusca, 42-52 = 28-35.

4. **Melanospora lagenaria** (Pers.) Fuck. — Syll. II, p. 461. — var. **te- 2194**  
**traspora** Rehm Hedw. 1891, p. 259.

*Hab.* in Polyporo adusto putrescenti in Belgio (BOMMER et ROUSSEAU). — Asci 45-60 = 21, tetraspori; sporidia 15-17 = 9-10, biguttata, brunnea.

Sect. 3. Hyalodidymæ.

**HYPOMYCES** Fr. — Syll. II, p. 466, et IX, p. 954.

1. **Hypomyces Stuhlmanni** P. Henn. F. Afr. II, p. 4. 2195

*Hab.* in pileo Polypori bukobensis pr. Victoria Njansa Africae. — Perithecia subglobosa, mycelio flavo-aurantiaco inserta asci 70-110 = 4-6; sporidia 15-19 = 3-5, 1-septata, hyalina; conidia globosa 4-6  $\mu$ . diam. hyalina.

2. **Hypomyces arachnoideus** Schröt. Pilze Schles. II, p. 268. 2196

*Hab.* in fungis lignosis putridis e. g. Ustulina et caudicibus

*Quercus* in Silesia. — Perithecia globosa 150–200  $\mu$ . diam., læte brunnea v. albida, subiculo arachnoideo inserta; asci 55–70 = 3–4; sporidia 8–9 = 2–3, 1-septata, hyalina.

3. **Hypomyces Trichoderma** (Hoffm.) Sacc. Syll. II, p. 475, Sec. Wettst. 2197  
 Ueb. zwei Ascom. p. 170, perithecia sunt globoso-conica auran-  
 tio-sanguinea, subiculo parum immersa, 250  $\mu$ . d.; asci cylindra-  
 cei, 146–162 = 7, octospori; sporidia monosticha, elongato-fusoidea  
 utrinque breve mucronata, 1-septata, hyalina. tenuiter verruculosa,  
 26–30 = 6–7. Repertus quoque ad ligna prope Mautern Stiria sup.  
 (A. HEIDER, 1886).

**NECTRIA** Fr. — Syll. II, p. 479, IX, p. 955.

I. *Eu-Nectria* Sacc.

1. **Nectria pallida** Ell. et Ev. Proc. Acad. Phil. 1894, p. 325. 2198  
*Hab.* in cortice emortuo *Caryæ* albæ, Missouri Amer. bor.  
 (DEMETRIO). — Perithecia 6–20-cæspitosa, stromate mucedineo albo  
 inserta 150  $\mu$ . diam. pallide flava; asci 40 = 6–7; sporidia 6–8 =  
 2–2,5 hyalina, 3–4 nucleata, demum obsolete 1-septata.
2. **Nectria cytosporina** E. et E. New West Amer. Fung. in *Erythea* 2199  
 p. 197.  
*Hab.* in ramis pineis emortuis, Seattle Amer. bor. — Stroma  
 cytosporoideum subcutaneum: sporulis 8–10 = 4–5 brunneis: peri-  
 thecia 3–8 cæspitosa, læte rubra, ovata 250  $\mu$ . diam.; asci 60 = 6;  
 sporidia 1-septata, 7–8 = 3–4, hyalina.
3. **Nectria pseudadelphica** Rehm Hedw. 1892, p. 308. 2200  
*Hab.* in ramulis, Pichincha Æquatoria (LAGERHEIM). — Peri-  
 thecia 3–30-cæspitosa, 200–300  $\mu$ . diam. piriformia, cinnabarina;  
 asci 120 = 18–24; sporidia 30 = 9–10, 1-septata, hyalina, sæpe intus  
 flavido-granulosa.
4. **Nectria atrofusca** (Schw.) Cooke Grev. XX, p. 85, *Sphæria atro-* 2201  
*fusca* Schw. Amer. bor. 1429 Syll. II, p. 391. — Asci clavati,  
 stipitati; sporidia elliptica, uniseptata, hyalina, 10–12 = 4.
5. **Nectria Ipomœæ** Halst. Rep. New Jers. Agr. St. 1891, p. 281, c. ic. 2202  
*Hab.* in radicibus *Ipomœæ* *Batataë* in Amer. bor. — Peri-  
 thecia cæspitulosa, globoso-conica, acute papillata, verruculoso-squa-  
 mulosa, rubra; asci tereti-clavati, 8-spori; sporidia tereti-oblonga  
 1-septata, leviter constricta hyalina. Adest status conidicus *Fusa-*  
*rium* sistens.

6. **Nectria Laurentiana** Em. Marchal Bull. Soc. belg. de microsc. 1894, 2203 p. 261, t. VII, f. 2.

*Hab.* in culmis Sacchari officinarum languidis, Congo inf. (E. LAURENT). — Stromatica, ferruginea, rugosa; asci 60-70 = 7-8; sporidia didyma 12-13 = 4-5. Stat. conid. *Fusarii* species.

7. **Nectria nipigonensis** E. et E. New Sp. North Amer. Fung. in Pro- 2204  
ceed. Acad. S. N. Philad. 1893, p. 129.

*Hab.* parasitice in *Diatrypella favacea* ad Fagum, Nipigon Canada (MACOUN). — Perithecia 15-40-cæspitosa, 250  $\mu$ . diam. flavo-rubida dein obscurior; asci 50-55 = 6-7; sporidia 10-12 = 5-6, 1-septata, fusoidea; adest stroma conidicum (*Tubercularia*): sporophora 20-25  $\mu$ . long. conidia 3-4 = 1.

## II. *Dialonectria* Secc.

8. **Nectria episphæria** (Tode) Fr. Syll. II, p. 497. — var. **Kretz-** 2205  
**schmaria** P. Henn. F. Afr. I, p. 364.

*Hab.* in stromatibus *Kretzschmaria* Pechuelii, Loango Africæ. — Perithecia sanguinea v. flava, 270  $\mu$ . diam.; asci 55-70 = 4-6; sporidia 7-9 = 4-5.

9. **Nectria granuligera** Starbäck Hedw. 1892, p. 308. 2206

*Hab.* in corbibus *Orchidearum* in calidariis Horti bot. Upsaliæ. — Perithecia gregaria, verruculosa, 1 mm. diam. rubra; asci 80-85 = 10; sporidia 1-septata, leviter constricta, guttulata, 10-14 = 3,5-4,5; verruculæ peritheciæ ex reliquiis mycelii conidiophori formatæ.

10. **Nectria obscurata** Ell. et Ev. Bull. Univ. Jowa 1893, p. 398. 2207

*Hab.* in corticibus, Castillo Viejo Amer. centr. (SMITH). — Perithecia 250-300  $\mu$ . diam. subsparsa, rubro-fusca; asci jam elapsi; sporidia 7-8 = 3, 1-septata, hyalina.

11. **Nectria uredinicola** Pat. Bull. Soc. Myc. 1891, p. 175. 2208

*Hab.* in caule *Labiata* ejusdam *Uredinea* deformato, Quito Æquatoriæ. — Perithecia coccinea, numerosissima, 260-300  $\mu$ . diam.; asci 80-100 = 13-16; sporidia 1-septata, hyalina, 23-30 = 6-7.

12. **Nectria rhizophila** Delacr. Bull. Soc. Myc. 1893, p. 187, t. XII, 2209  
fig. 6.

*Hab.* in fragmentis radicum *Castaneæ*, in Gallia. — Perithecia cinnabarina, sparsa, ostiolo vix prominulo; asci 75 = 4; sporidia hyalina, 12 = 3,5, constricto-1-septata.

III. *Hyphonectria* Sacc.

13. *Nectria oropensoides* Rehm in Lindau Pilzfl. Westf. p. 15 et 2210  
Bref. Unters. X, p. 175, t. IV, f. 31-34.

*Hab.* in ligno dejecto putrescenti in Westfalia. — Perithecia mycelio albido, arachnoideo inserta, globosa, apice rosea, 100  $\mu$ . diam.; asci 50-60  $\times$  5-6; sporidia 5-8  $\times$  3-4, 1-septata, hyalina. Ad *Hypomycetem* vergit.

14. *Nectria lanata* Pat. Bull. Soc. Myc. 1892, p. 52. 2211

*Hab.* in culmis emortuis *Bambusæ*, Tonkin. — Mycelium effusum, rufo-ferrugineum; perithecia copiosa exigua 230-260  $\mu$ . diam. rufo-aurantia; asci 80  $\times$  8-10; sporidia 15  $\times$  6-8, hyalina, 1-septata.

IV. *Phæonectria* Sacc. sporidia flavo-brunnea (simulate striata).

15. *Nectria striispora* Ell et Ev. Bull. Univ. Jowa 1893, p. 398. 2212

*Hab.* ad cortices Castillo Viejo Amer. centr. (SMITH). — Perithecia cæspitosa 1  $\times$  0,5 mm. flavo-furfuracea, ostiolo succineo; asci 80-100  $\times$  12-15 (p. sp.); sporidia 30-38  $\times$  8-10, flavo-brunnea, 1-septata, leviter constricta, cellulis 3-5 nucleatis, tandem simulate striata (ex corpusculis linearibus quibus implentur?). « An novi generis typus, an *Calonectriæ* affinis? ».

IV. Desciscentes.

16. *Nectria rugispora* Pat. Bull. Soc. Myc. 1892, p. 133. 2213

*Hab.* in cortice putri, Puente de Chimbo Æquatoriæ. — Perithecia obscure rubra, globosa, rugulosa, 300  $\mu$ . diam.; asci 75  $\times$  12; sporidia 22-25  $\times$  7-9, 1-septata, echinulata (hyalina?). Forte ad sect. *Cosmosporam* pertinet.

17. *Nectria repens* Pat. Journ. Bot. 1891, p. 320. 2214

*Hab.* in lignis putridis udis, Ke-So Tonkin. — Perithecia ovato-piriformia 230-260  $\times$  200, demum collabentia, crusta rubra repenti effusa ramosa insidentia; asci 90-100  $\times$  6-7; sporidia 10-12  $\times$  5, 1-septata, hyalina v. rubeola. Ad *Corallomycelem* quoque vergit.

SPHÆROSTILBE Tul. — Syll. II, p. 511, IX, p. 972.

1. *Sphærostilbe Bambusæ* Pat. Bull. Soc. Myc. 1891, p. 175, t. XII, 2215  
fig. V.

*Hab.* in culmis bambusinis vetustis, Las-plajas Æquatoriæ. — Acervuli discoidei 2-3 mm. lat.; peritnecia 200-300  $\mu$ . diam.



360 Pyrenomycetæ, Hypocreaceæ, Hyalodidymæ, Cyanocephalum.

stromati semiimmersa, rubro-aurantia; asci 90-100 × 8; sporidia 14-16 × 4-5, 1-septata, biguttata, hyalina. Adest st. conid. *Stilbum*

*Bambusæ* Pat. et Gail. sistens: conidiis 5-6 × 3, biguttatis, hyalinis  
2. **Sphærostilbe Macowani** (Körb.) Cooke Grev. XX, p. 16, *Coniocybe* 2216  
*Owani* Körb. Oesterr. bot. Zeitschr. 1877, p. 357.

*Hab.* in corticibus, ad Caput Bonæ Spei. — Perithecia sparsa in fissuris matricis, sed asci immaturi. Status conidicus (*Stilbum*) 2 mm. alt., conidiis 5 × 3.

**LISEA** Sacc. — Syll. II, p. 517.

1. **Lisea leptasca** Sacc. Fung. Abyss. p. 6. — Peritheciis superficialibus 2217 minutis, vix  $\frac{1}{4}$  mm. diam., sparsis v. paucis in acervulos collectis, udis globoso-ovoideis, siccis collapsis-cupulatis, atro-cyaneis, contextu parenchymatico, molli, amœne cyaneo; ascis anguste cylindraceis, 60-70 × 5-6, breve stipitatis, sursum primitus truncato-atenuatis, octosporis; sporidiis oblique monostichis, ovato-oblongis, 1-septatis, tandem constrictis, 12-14 × 4,5-5, nubilosis, hyalinis; paraphysibus obsoletis.

*Hab.* in ramulis et caulibus dejectis in M. Dongollo et Asmara Coloniam Erythrææ. — Ceteris congeneribus valde affinis.

**CYANOCEPHALIUM** Zuk. Mykol. Mittheil. p. 14 (Etym. *cyanos* et *cephalos* caput). — Perithecia discreta, superficialia, ovato-globosa, flavo-albida, glabra, dura, apice atro-cyaneo, poro pertusa; asci ampullacei, paraphysati, polyspori; sporidia 1-septata, hyalina, minuta. «Ob colorem ad *Hypocreaceas* accedit, duritie vero desciscit.» \*).

1. **Cyanocephalum murorum** Zuk. l. c. t. XII, fig. 1-8. 2218

*Hab.* in muris udis muscosis pr. St. Kantzian Carinthiæ. — Perithecia 300-500  $\mu$ . long.; asci 160-165 × 38-40, apice acuti; sporidia ellipsoidea, 3-3,5 × 1,5-2, 1-septata, hyalina, strato mucoso tenui obducta.

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\*) Hic memoretur *Epiglœa bactrospora* Zuk. Oest. bot. Zeitschr. 1890, p. 327, t. III, (Lichenibus adscripta) thallo (proprio?) virenti *Palmellæ* prædita; peritheciis cereis, subglobosis, mollibus; ascis clavatis, polysporis; sporidiis bacillaribus, 7-8 × 1,5, uniseptatis, hyalinis. — In Sphagnis, Salzburg.

**HYPOCREA** Fr. — Syll. II, p. 520, IX, p. 972.I. *Eu-Hypocrea* Sacc.

## a. Sporidia subhyalina.

1. **Hypocrea Glaziovii** Sacc. in Hennings Fung. brasil. II, p. 524. 2219  
*Hab.* in cortice levigato arboris ignotæ in Brasilia (GLAZIOU).  
 — Stroma effusum, applanatum, roseo-pallens, 0,3 mm. cr.; perithecia 250  $\mu$ . diam.; asci 75  $\approx$  9-10; sporidia 12-15  $\approx$  4-5, hyalina, mox in articulos cuboideo-globosos 4  $\mu$ . diam. divisa.
2. **Hypocrea albida** Pat. Bull. Soc. Myc. 1892, p. 52. 2220  
*Hab.* in ramulis emortuis, Tonkin. — Stroma convexum, 0,5-1,5 mm. diam., albidum; perithecia 130-150  $\mu$ . long.; asci 60  $\approx$  5; sporidia didyma, mox in articulos globosos, 1-guttatos, 4  $\mu$ . diam. hyalinos divisa.
3. **Hypocrea ochracea** Pat. Bull. Soc. Myc. 1893, p. 155. 2221  
*Hab.* in corticibus, Palulahua Æquatorix (LAGERHEIM). — Stroma discoideum, 5-8 mm. long. undique ochraceum; perithecia 150-180  $\mu$ . diam.; asci 80  $\approx$  4, octospori; sporidia didyma in articulos globosos 3  $\mu$ . diam. hyalinos secedentia.
4. **Hypocrea chionea** E. et E. Am. Pyr. p. 79. 2222  
*Hab.* in ligno dejecto decorticato, Canada (DEARNESS). — Stromata pulvinato-hemisphærica, 1-2 mm. diam., nivea; perithecia ovata, cornicoloria; asci 60  $\approx$  3; sporidia bicellularia, hyalina. cellulis 2,2-3,  $\mu$ . diam.
5. **Hypocrea tremellicola** E. et Ev. Am. Pyr. p. 85. 2223  
*Hab.* parasitica in Tremella albida, Ohio Amer. bor. (MORGAN). — Stroma tenue, crustaceum, cinereum; perithecia 100-115  $\mu$ . diam.; asci 75  $\approx$  5 p. sp.; sporidia ellipsoidea, 1-2-nucleata, demum 1-septata, 7-8  $\approx$  3, hyalina.
6. **Hypocrea lati-zonata** Peck in Ellis Am. Pyr. p. 79. 2224  
*Hab.* parasitica in Cyatho striato in America boreali. — Subiculum sordide album, 0,5-0,7 mm. lat., ostiolis punctatum; asci 75-80  $\approx$  3,5-4; sporidia didyma, cellulis secedentibus, subglobosis, hyalinis, 3-3,5  $\mu$ . diam.

## b. Sporidia olivaceo-flavida v. brunnea.

7. **Hypocrea ceramica** E. et Ev. Am. Pyr. p. 85. 2225  
*Hab.* in cortice dejecto Juniperi, Connecticut Amer. bor. (THAXTER). — Stroma convexum, 1-2 mm. diam., lateritium; asci

- 55-60  $\approx$  4, p. sp. sporidia bicellularia, cellula sup. cuboidea 4  $\mu$ . diam., inf. ovoidea 4-4,5  $\approx$  3-3,5, brunneola.
8. **Hypocrea virginiensis** E. et E. in Proceed. Acad. N. S. Philad. 442 2226  
*Hab.* in foliis submortuis *Rhododendri maximi*, Nuttallburg. Virg. Amer. bor. (NUTTALL). — Stroma subcarnosum, subhemisphæricum 1-2 mm. diam., flavido-cinereum; perithecia 110-150  $\mu$ . diam.; asci 40-45  $\approx$  7-8 p. sp.; sporidia 10-12  $\approx$  3-3,5, 1-septata, leniter constricta, flavido-hyalina, utrinque obtuse acutata.
9. **Hypocrea hirsuta** Ell. et Ev. Bull. Univ. Jow. 1893, p. 397. 2227  
*Hab.* in corticibus, Ometepe et Castillo Viejo Amer. centr. (SMITH). — Stroma subhemisphæricum 2-3 mm. lat. brunneum, intus albidum, setis 100-200  $\approx$  4 hirtum; perithecia immersa, 0,5 mm. diam.; asci 100  $\approx$  10; sporidia navicularia; brunnea 7-8  $\approx$  3-3,5 («1-septata?»).
10. **Hypocrea Sacchari** Went De Serehziekte p. 31, tab. VII. 2228  
*Hab.* in vaginis foliorum *Sacchari officinarum* in insula Java. — Stroma pulvinate-depressum, carnosum, pallide fuscum 2-4 mm. lat.; perithecia 200-250  $\approx$  150-200; asci 100  $\approx$  5; sporidia didyma, mox in cellulas binas, sup. globosam 4  $\mu$ . diam., inf. cuboideo-oblongam  $\approx$  6-4 dilabentia, fumose olivacea.
11. **Hypocrea Lixii** Pat. Rev. Myc. 1891, p. 138. 2229  
*Hab.* in hymenio putri *Ganoderma* cujusdam in Nova Guinea (LIX) — Stroma orbiculare, convexum, brunneum, 2-4 mm. lat.; perithecia 150  $\approx$  120; sporidia didyma, mox in articulos olivaceo-chlorinos, cuboideo-sphæricos, 8  $\approx$  7.

## II. *Battarrina* Sacc.

12. **Hypocrea tenerrima** E. et E. in Proceed. Acad. N. S. Philad. 1893 2230  
 p. 442.  
*Hab.* ad muscos, frustula etc. Nuttallburg West Va Amer. bor. (NUTTALL). — Subiculum arachnoideum niveum; perithecia 180  $\mu$ . diam.; asci 40  $\approx$  3; sporidia oblonga, obtusa, hyalina, 5-6  $\approx$  2, 1-nucleata.
13. **Hypocrea xylarioides** Pat. Bull. Boiss. 1895, p. 71, t. II, fig. 3. 2231  
*Hab.* in truncis vetustis, San Jorge Æquatorix. — Stroma subclavatum 1-3 cm. alt., 1-1,5 cr., brunneo-atrum; perithecia globosa, immersa; asci 45  $\mu$ . long.; sporidia globosa, 2-3  $\mu$ . diam., hyalina, octona.

III. *Cavaraea* Sacc. \*) Sporidia longitrorsum vittata, continua.

14. **Hypocrea vittata** Pat. Bull. Soc. Myc. 1893, p. 155. 2232

*Hab.* in truncis *Euphorbiæ*, Palulahua *Æquatorix* (LAGERHEIM).  
— Stroma carnosum, pulvinatum, 5-12 mm. long. albo-carneum; perithecia 230  $\mu$ . diam.; asci 90  $\approx$  15, tetraspori; sporidia continua, hyalina, ovoidea, 15-18  $\approx$  10, longitrorsum 8-vittata.

Sect. 5. Phragmosporæ.

**CALONECTRIA** De Not. — Syll. II, p. 540, IX, p. 982.

1. **Calonectria hederiseda** Roll. et Fautr. Rev. Myc. 1894, p. 73, t. CLXI, 2233

f. 7. — Peritheciis globulosis, sparsis v. laxè approximatis, carnis, flavo-brunneis, in sicco atris,  $\frac{1}{3}$  mm. diam., ostiolo ampliore; ascis cylindræis, protoplasmate valde refringente, inflato-gibbis, 50-100  $\approx$  8-12; sporidiis sæpe parum distinctis, hyalinis, fusiformibus, 3-septatis 16-18  $\approx$  6; paraphysibus hyalinis, crassis.

*Hab.* ad ramos *Hederæ Helicis*, Côte-d'Or in Gallia.

2. **Calonectria albo-succinea** Pat. Bull. Soc. Myc. 1892, p. 132. 2234

*Hab.* in corticibus putridis, Puente de Chimbo *Æquatorix* (LAGERHEIM). — Perithecia 300-400  $\mu$ . diam., succinea, verrucis albis auctis conspersa; asci 110  $\approx$  20; sporidia 35  $\approx$  8-10, 3-septata, hyalina.

3. **Calonectria Lagerheimiana** Pat. Bull. Boiss. 1895, p. 71. 2235

*Hab.* parasitica in *Meliola* ad ramos *Mimosæ quitensis* Pululahua *Æquatorix*. — Perithecia albido-succinea, ovata, 160  $\approx$  130; asci 56-80  $\approx$  10; sporidia 3-7-septata, constricta, 30-33  $\approx$  3-4, chlorino-hyalina.

**GIBBERELLA** Sacc. — Syll. II, p. 552, IX, p. 988.

1. **Gibberella Trichostomi** Roll. Bull. Soc. Myc. 1891, p. 211, t. XIV, 2236  
fig. 3.

*Hab.* ad folia *Trichostomi nitidi* in insulis Lerinis Golf Juan Gallix merid. — Perithecia minuta, sphæroideo-papillata, 250  $\mu$ . diam., atra; asci 110-140  $\approx$  20-25; sporidia 35  $\approx$  10, constricto 3-septata hyalina. — Ad *Gibberellam Saubinetii* spectat *Nectria Melongenæ* Roum. F. Gall. n. 1645.

\*) In honorem doctoris FRIDIANI CAVARA, mycologiæ insubricæ strenui scrutatoris.

**LECITHIUM** Zuk. Mykol. Mittheil. p. 9 (Etym. *lecithos* vas, poculum).

— Perithecia discreta, superficialia, molliuscula, ampulliformia, æruginosa, in collum longum apice porosum attenuata; asci paraphysati, octospori; sporidia fusoides, 3-septata, hyalina, utrinque appendiculata

1. **Lecithium ærugineum** Zuk. Mykol. Mittheil. p. 9, t. XI, f. 20-25. 2237

*Hab.* in cortice vetusto *Salicis* prope Klopeiner See Carinthiæ. — Perithecia cum rostello 500-800  $\mu$ . long., 150-200  $\mu$ . cr.; asci 90-100 = 6-7, parte sporif.; sporidia monosticha, 20 = 5-6, tri-septata, hyalina utrinque appendice brevi clavulata, mox decidua aucta.

**BROOMELLA** Sacc. — Syll. II, p. 557, IX, p. 988.

1. **Broomella Phyllocharis** Speg. Fl. Guar. nonn. n. 96. 2238

*Hab.* ad folia viva plantæ ignotæ pr. Guarapi Brasilæ. — Perithecia in macula epiphylla stromatica albo-rosea dense circumstantia, carneo-fulva, subimmersa, 80-100  $\mu$ . diam.; asci 50-55 = 5-6; sporidia 12 = 2,5-3, 1-septata, vix constricta, hyalina, 2-3-nucleata (an tandem 3-5-septata?). Ad Lichenes vergit.

### Sect. 6. Dictyosporæ.

**THYRONECTRIA** Sacc. — Syll. II, p. 561.

1. **Thyronectria virens** Harkn. in Ellis Amer. Pyr. p. 92. 2239

*Hab.* in ramis emortuis *Rhois*, California, Canada et Connecticut Amer. bor. — Perithecia cæspitosa, flavo-viridi-tomentella, 0,3 mm. diam.; asci 100-110 = 12-15; sporidia 6-7-septato-muriformia, 18-22 = 6-8, hyalina.

**MATTIROLIA** Berl. et Bres. — Syll. IX, p. 993.

1. **Mattirolia rhodochlora** (Mont) Berl. Att. Congr. bot. Gen. p. 574. 2240  
t. XXII, f. 4-5, ? *Trichosphæria* et *Pleosphæria* Sacc. Syll. I, p. 455, II, p. 305.

*Hab.* in cortice *Alni glutinosæ* in Gallia (MONTAGNE). — Perithecia 0,3 mm. diam. lateritia, viridi-lanuginosa; asci 90-100 = 18-22; sporidia 4-7-septato muriformia, ex hyalino lutescentia, dein fuscidula, 18-20 = 10-12, ad septa levissime constricta.

**ULEOMYCES** P. Henn. Fungi goyaz. p. 107 (Etym. ab E. ULE, strenuo mycetum brasiliensium collectore et *myces* fungus). — Stromata

Pyrenomyceteæ, Hypocreaceæ, Scolecosporeæ, Ophionectria. 365  
parasitica, subcrustacea, nectriacea. Asci octospori, aparaphysati;  
sporidia oblongo-ovoidea v. subclavata, pluriseptato-muriformia,  
brunnea. — *Bivoneæ* affinis sed stromatica.

1. *Uleomyces parasiticus* P. Henn. Fung. goyaz. p. 107. 2241

*Hab.* parasitica in *Parmularia Styracis* ad folia *Styracis*  
sp. Minas Geraës Brasiliæ (ULÆ). — Stromata gibboso-tuberculosa  
atro-carnea; perithecia subhemisphærica, semi immersa. Asci 60-  
100  $\approx$  30-50; sporidia 23-32  $\approx$  11-15, clavato-oblonga, multiseptato-  
muriformia, subconstricta, brunnea v. atro-vinosa.

### Sect. 7. Scolecosporeæ.

**GLOBULINA** Speg. — Syll. IX, p. 993.

1. *Globulina Ingæ* Pat. Bull. Soc. Myc. 1893, p. 154. 2242

*Hab.* in foliis *Ingæ pachycarpæ*, Cotocollao Æquatoriæ.  
— Perithecia ovoidea, papillata, carnea, 100-140  $\approx$  90-100, subiculo  
mucedineo albo tenuissimo insidentia; asci 60-80  $\approx$  8-10; sporidia  
filiformia, 15-septulata, hyalina, 80  $\approx$  2.

**TORRUBIELLA** Boud. — Syll. IX, p. 994.

1. *Torrubiella tomentosa* Pat. Bull. Soc. Myc. 1892, p. 133. 2243

*Hab.* in insecto v. potius arachnide ad pag. inf. foliorum ar-  
boris cujusdam, Puente de Chimbo Æquatoriæ. — Perithecia ovato-  
conica, lanosa 1  $\approx$  0,3 mm., stromate lanato, ochraceo, tenui inserta,  
asci 600  $\approx$  6-8; sporidia filiformia asci long. hyalina, dein in ar-  
ticulos 10  $\approx$  1 dilabentia.

2. *Torrubiella rubra* Pat. et Lagerh. Bull. Soc. Myc. 1893, p. 154. 2244

*Hab.* in cadaveribus *Cocci* ad folia *Melastomæ*, Solani,  
San Jorge Æquatoriæ. — Stroma lanosum ex albo rubrum v. rufo-  
brunneum 6-10 mm. lat., perithecia elongato-conica, 1 mm. alt.,  
pilosa, purpurea, asci 700-800  $\approx$  6-7; sporidia asci long. dein in ar-  
ticulos 3-5  $\mu$ . longos, dilabentia.

**OPHIONECTRIA** Sacc. Syll. II, p. 563, IX, p. 994.

1. *Ophionectria rubicola* Pat. Bull. Soc. Myc. 1893, p. 154. 2245

*Hab.* in sarmentis emortuis *Rubi* pr. Quito Æquatoriæ. —  
Perithecia ovato-conica, 0,5 mm. alta, albido-pulverea, apice flavo-  
viridia; asci 300-350  $\approx$  5-6; sporidia longissima filiformia, parce  
guttulata, continua, hyalina.

2. *Ophionectria belonospora* (Schröt.) Sacc. *Calonectria* Schröt. Pilze 2246  
Schles. II, p. 261.

*Hab.* in stromatibus *Diatrypes Stigmatis* in Silesia. — Perithecia sæpe cæspitulosæ, 0,2-0,3 mm. diam., brunneo v. viridulo-flavida; asci 70-80  $\times$  7-9; sporidia fusoido-acicularia, acuta, curvula, 45-50  $\times$  3, hyalina. « Forte non satis diversa ab *O. Everhartii* ».

3. **Ophionectria scolecospora** Bref. Unters. X, p. 178, t. V, f. 45-46. 2247

*Hab.* in ramulis, gemmis et foliis dejectis Pini pr. Münster. — Habitus *Nectricæ Cucurbitulæ*; asci 100-120  $\times$  5-11, bispori; sporidia cylindrica, utrinque obtusa, hyalina, 44-79  $\times$  2,5-4, 18-20-septata, non constricta, dein microsporis perexiguis 2,5-3  $\times$  1 innumeris conspersa.

**BALANSIA** Speg. — Syll. IX, p. 997.

1. **Balansia pallida** Wint. Hedw. 1887, p. 32. 2248

*Hab.* in germinibus vivis *Luziolæ peruvianæ*, S. Catharina Brasiliæ (ULE). — Stromata subglobosa, basi sclerotioidea, 0,5-2 mm. diam. lutea; capitulata perithecigera, 0,3-0,5 mm. lat.; perithecia peripherica 290-320  $\times$  130-160; asci 175-220  $\times$  3,5-4; sporidia filiformia asci long., 0,8-0,9  $\mu$ . cr. obsolete multiseptata; conidia 44-62  $\times$  2.

**CORDYCEPS** Fr. — Syll. II, p. 566, IX, p. 998.

1. **Cordyceps aspera** Pat. Journ. de Bot 1893, p. 344. 2249

*Hab.* in Coleoptero quodam in Thibet (FARGES). — Stromata capitato-elongata 5-12 mm. long., 2 mm. cr. albo-villosa, stipite 30-50  $\times$  1 mm.; perithecia superficialia acuta, glabra, fusca, basi albido-tomentella; asci 150-200  $\times$  5; sporidia filiformia asci long., in articulos 6  $\times$  1 secedentia, hyalina.

2. **Cordyceps formicivora** Schröt. Pilze Schles. II, p. 277 (*Torrubia*). 2250

*Hab.* in *Formica ligniperda*, Frankenstein Silesiæ. — Stroma globoso-hemisphæricum 2 mm. lat., nigricans, intus albidum, stipite brevissimo, 1-2  $\times$  0,5 mm.; perithecia 0,3 mm. diam. semi immersa; asci 150-170  $\times$  6-7; sporidia 100-110  $\times$  2,5-3, septulata & flavido hyalina.

3. **Cordyceps Sheeringii** Masee Ann. of Bot. V, p. 510, Bot. Cen- 2251

tralbl. 1892, n. 37, p. 334, Grev. XX, p. 15. — Stromate minuto, 0,5-1 cm. alt., ochraceo-albo, stipite cylindrico; capitulo subgloboso, peritheciis immersis punctato; ascis tereti-clavatis, 8-sporis; sporidiis linearibus, flexuosis, 5-septatis, non secedentibus, 60  $\times$  1,5.

*Hab.* in *Formica* quadam, Grenada Ind. occid. (SHERRING).

4. **Cordyceps Langloisii** Ell. et Ev. Am. Pyr. p. 62. 2252

*Hab.* in larvis emortuis *Vespæ murariæ*, Louisiana (LANGLOIS). — Stroma capitatum, 3 mm. alt, stipes 2 = 1 mm.; capitulum depresso-globosum, 2 mm. cr. ex albo rubellum; perithecia 250-300 = 110-150; asci 180-201 = 2-2,5; sporidia asci long., 0,5  $\mu$ . cr.

**EPICHLOE** Fr. — Syll. II, p. 579, IX, p. 1001.

1. **Epichloë Warburgiana** Magn. Ueb. eine neue Epichl. p. 1 et seq. 2253  
t. VIII, (Atti Congr. bot. Gen.)

*Hab.* in inflorescentia *Clinogynes* ex Marantaceis, in ins. Celebes et Philippinis. — Stromata cylindraceo-conica (potius tubulosa), nigricantia, levia, crustacea; perithecia immersa, conferta ovato-conica, ostiolo non emergente; asci cylindraceo-fusoidei, apice acutati, 8-spori; sporidia filiformia ascum subæquantia, mox dilatantia in articulos cylindraceos 12-13 = 1,5-1,6 (ex icone, nam mensuræ omnes desiderantur).

**HYPOCRELLA** Sacc. — Syll. II, p. 579, IX, p. 1002.

1. **Hypocrella tuberiformis** (B. et Rav.) Atkins. Bot. Gaz. 1891, p. 256 et 282, t. XXV, *Hypocrea* B. et Rav., Sacc. Syll. II, p. 534, Cooke Grev. XII, p. 105, nec Pat. (*Dusiella*. Cfr. Syll. IX, p. 1003). 2254

*Hab.* in culmo *Arundinariæ* in Carolina et Alabama Amer. bor. — Stroma subglobosum, discolori-stratosum, 1 cm. et amplius lat. hyphis 35-40 = 2-3 initio tectum, conidiis 7-10 = 3,5-4 hyalinis; perithecia sessilia v. basi infossa, 1 mm. long., 0,7 mm. cr.; asci 450-750 = 14; sporidia asci longitudine filiformia, utrinque obtusa, hyalina, pluriseptata, in articulos demum secedentia.

2. **Hypocrella axillaris** Cooke Grev. XX, p. 4. — Stromate obturbato v. obclavato, 5 = 2-3 mm., atro, opaco, ostiolis minute granulato, intus albo; peritheciis minutissimis, peripheria immersis; ascis 120  $\mu$ . long. cylindricis; sporidiis filiformibus, 100  $\mu$ . long., pluriseptatis, hyalinis. 2255

*Hab.* ad axillas superiores graminum, Brisbane Australiæ (BAILEY). — Cum *Epichloë strangulante* in nonnullis convenit.

3. **Hypocrella Semen** Bres. in Hennings Fung. bras. II, p. 524. 2256

*Hab.* in foliis *Chamædoreæ*, Minas Geraes in Brasilia (GLAZIOU). — Stroma carnosulum, subglobosum, 1 mm. diam. rufo-fuscum; perithecia subglobosa; asci 220-270 = 8-9; sporidia filiformia, multiseptata, 150-180 = 2-2,5.



4. **Hypocrella Glaziovii** Henn. Fun. bras. II, p. 524. 2257

*Hab.* in foliis Chamædoreæ in Minas Geraes Brasiliæ (GLAZIOU). — Stroma scutellato-convexum, atrum, 1 mm. diam.; asci 40-50  $\times$  10-15; sporidia pluriseptata, filiformia, 35-45  $\times$  3-4, deinde in articulos 5-8  $\times$  3-4 hyalinos secedentia.

5. **Hypocrella epiphylla** Maseæ Journ. of Bot. 1892, p. 164, t. 323, 2258  
f. 27-30 (*Hypocrea*).

*Hab.* in foliis Dieffenbachiaë, Morne Cochon Indiæ occid. — Stroma carnosum hemisphæricum 2-6 mm. lat., ochraceum; perithecia ellipsoidea; asci cylindranei; sporidia continua 50-55  $\times$  1-5 lineari-fusoidea.

6. **Hypocrella? Gardeniæ** Henn. Fung. Warburg. pag. 223 (*Hedwigia* 2259  
1893).

*Hab.* in foliis Gardeniæ floridæ in horto Bogor, Java. — Stromata hypophylla pulvinata, pallide brunnea, carnosula 1 mm. diam., subiculo pallido insidentia; asci non visi; sporidia in articulos hyalinos, fusoideos, 8-10  $\times$  3 dilabentia.

7. **Hypocrella obconica** P. Henn. Fung. goyaz. p. 106. 2260

*Hab.* ad folia viva, Minas Geraes Brasiliæ (GLAZIOU). — Stromata obconica v. turbinata, griseo-brunnea 0,5-1 mm. diam. Perithecia immersa. Asci 170-220  $\times$  12-15; sporidia filiformia; multi-septata, in articulos 1,5-2  $\times$  0,5-1 dilabentia.

8. **Hypocrella abnormis** P. Henn. Fung. goyaz. p. 106. 2261

*Hab.* ad folia ignota in Brasilia (GLAZIOU). — Stromata pulvinato-applanata, 5 mm. diam., e flavo glaucoscentia; perithecia ellipsoidea ostiolis tuberculatis olivaceis. Asci 150-200  $\times$  7-9; sporidia 120-150  $\times$  1-1,5, plerumque continua.

#### Fam. 5. Dothideaceæ Nits. et Fuck.

##### Sect. 1. Hyalosporæ.

**PHYLLACHORA** Nits. — Syll. II, p. 595, IX, p. 1006.

1. **Phyllachora Cassiæ** P. Henn. Fung. goyaz. p. 110. 2262

*Hab.* in foliis vivis Cassiæ sp. Goyaz Brasiliæ (ULE). — Stromata plerumque hypophylla, subpulvinata, rotundata, atra opaca, levia, 0,5-1 mm. diam. Asci 80-100  $\times$  11-15; sporidia ellipsoidea, continua, nubilosa, hyalina, octona.

2. **Phyllachora Acaciæ** P. Henn. Hedw. 1894, p. 233. 2363

*Hab.* in foliis Acaciæ Farnesianæ, Balao Æquatoriæ (EG-

- GERS). — Stromata amphigena, exigua, nitida 140-200  $\mu$ . diam.; asci 45-52 = 14-17; sporidia oblonga, hyalina, continua, 12-15 = 4-5.
3. **Phyllachora frigida** Rostr. Bidr. Ascom. Dovr. p. 5. 2264  
*Hab.* in caulibus vivis Phacæ frigidæ, Dovre Norvegiæ. — Stroma ambiens, atrum; asci 25 = 20; sporidia 9-10 = 2,5-3,5 basi 1-guttulata.
4. **Phyllachora Machærii** Henn. Fung. bras. II, p. 524. 2265  
*Hab.* in foliis Machærii, Santa Catharina Brasiliæ (SCHENCK). — Stromata rotundato-pulvinata, applanata, atro-fusca, 1 mm. diam.; asci 85-105 = 7-9; sporidia 12-15 = 4,5-6, hyalina.
5. **Phyllachera oxalina** E. et E. North Am. Pyr. p. 602. 2266  
*Hab.* in foliis Oxalidis corniculatæ, Delaware Amer. bor. (COMMONS). — Stromata amphigena, minuta 0,2-0,3 mm. diam.; asci.... sporulæ 7-8 = 2-2,5, hyalinæ, demum 1-septatæ.
6. **Phyllachora Begoniæ** Pat. Bull. Boiss. 1895, p. 71. 2267  
*Hab.* in pag. sup. foliorum Begoniæ, San Jorge Æquatoriæ. — Stromata orbicularia 0,5-1 mm. lat., atro-nitida, 2-4-locellata; asci 120-130 = 15-20; sporidia 22-25 = 5, hyalina, muco obvoluta.
7. **Phyllachora maculata** Cooke Grev. XX, p. 4. — Stromatibus gregariis in maculis bullatis, fulvescentibus, 1,5 cm. lat., semi immersis, nigris; ascis clavatis; sporidiis elongato-ellipsoideis, utrinque acutatis, hyalinos, 22-25 = 8. 2268  
*Hab.* in foliis Eucalypti, Victoria Australiæ (MARTIN).
8. **Phyllachora goyazensis** P. Henn. Fungi goyaz. p. 110. 2269  
*Hab.* in foliis vivis Myrtacearum, Goyaz Brasiliæ (ULE). — Stromata sæpius epiphylla pulvinata, rotundata, nitidula. Asci 70-90 = 17-18; sporidia 12-14 = 8-12, utrinque obtusula, granulosa, hyalina.
9. **Phyllachora subcircinans** Speg. Fl. Guar. nonn. n. 106, p. 37. 2270  
*Hab.* ad folia viva Myrtacæe ejusdam, Caâ-guazú Amer. austr. — Stromata epiphylla, subcircinantia, atro-nitida, 0,5 mm. diam. 1-3-locularia; loculi 200  $\mu$ . diam.; asci 80-90 = 10-16; sporidia 14-16 = 8-10, hyalina, granuloso-guttata, initio muco cincta.
10. **Phyllachora Pittospori** P. Henn. F. Æthiop. I, p. 119, t. IV, f. 7. 2271  
*Hab.* in foliis Pittospori abyssinici, in colonia Erythræa (SCHWEINFURTH). — Stromata epiphylla, pulvinata, atro-nitida; loculi ovoidei, pauci; asci 110-150 = 15-25; sporidia 14-18 = 10-13 hyalina.
11. **Phyllachora gentilis** Speg. Fl. Guar. nonn. n. 109, p. 38. 2272  
*Hab.* ad folia viva Eugeniæ in dumetis, Paraguay. — Stro-

mata epiphylla, nitida, 1-2 mm. diam., maculæ atropurpureæ innata, 3-9-locularia; loculi 200-250  $\mu$ . diam.; asci 120  $\approx$  12-14; sporidia 18-20  $\approx$  8-9, hyalina, primo mucro obducta (an demum excentrice 1-septata?).

12. **Phyllachora marginalis** Pat. Bull. Soc. myc. 1892, p. 134. 2273

*Hab.* in margine pag. inf. foliorum *Rhois* cujusdam, Banos Æquatoriæ (LAGERHEIM). — Stromata atra, minutissima, 0,5 mm. diam., convexa; loculi pauci; asci 18-20  $\approx$  15; sporidia 13-14  $\approx$  6-7, hyalina.

13. **Phyllachora Lagerheimiana** Rehm, Hedw. 1891, p. 255. 2274

*Hab.* ad folia viva *Ilicis scopulorum*, Panecillo pr. Quito Æquatoriæ (LAGERHEIM). — Stromata rotundato-oblongata, 1-3 mm. longa; loculi immersi; asci 90  $\approx$  15; sporidia 12-14  $\approx$  7-8, hyalina dein fuscidula.

14. **Phyllachora Xanthoxyli** Wint. Hedw. 1887, p. 34. 2275

*Hab.* ad folia petiolosque vivos *Xanthoxyli*, Santa Catharina Brasiliæ (ULE). — Stromata epiphylla, subrotundata, circumscissa, atro-nitentia, 0,5-1 mm. diam.; loculi immerso-subprominuli; asci 84-100  $\approx$  12-14; sporidia 14-16  $\approx$  7, utrinque rotundata, hyalina.

15. **Phyllachora gratissima** Rehm, Hedw. 1892, p. 306. 2276

*Hab.* ad folia *Perseæ gratissimæ*, Bannos Æquatoriæ (LAGERHEIM). — Stroma hemisphærica, verruculosa, atra 0,5-1,5 mm. diam., denique confluentia; loculi immersi; asci 100-110  $\approx$  21; sporidia 18  $\approx$  9-10, ex hyalino flavidula, guttulata.

16. **Phyllachora Triumphetæ** Pat. Bull. Soc. Myc. 1892, p. 135. 2277

*Hab.* in foliis *Triumfetæ*, amphigena, Bannos Æquatoriæ (LAGERHEIM). — Stromata 0,5-1 mm. long. convexa, opace nigra; asci 60-80  $\approx$  10-15; sporidia 10  $\approx$  6-7, hyalina.

17. **Phyllachora Escalloniæ** Pat. Bull. Soc. Myc. 1891, p. 177. 2278

*Hab.* ad folia *Escalloniæ*, Quinoas Æquatoriæ (LAGERHEIM). — Stromata hypophylla, 8-10 mm. lat., plurilocularia, atra, undulata, loculi prominuli, pauci, 0,5 mm. diam.; asci 110-120  $\approx$  20; sporidia 23-25  $\approx$  6-7, hyalina, utrinque acutata.

18. **Phyllachora Durantæ** Rehm, Hedw. 1892, p. 306. 2279

*Hab.* ad folia *Durantæ* pr. Quito Æquatoriæ (LAGERHEIM). — Stromata atro-nitida suborbicularia, 1-3 mm. diam.; loculi immerso-prominuli; asci 90  $\approx$  21; sporidia 15  $\approx$  8, dilute flavida, guttulata.

19. **Phyllachora Cestri** Pat. Bull. Soc. Myc. 1891, p. 176. 2280

*Hab.* in pag. sup. foliorum *Cestri*, Tambillo Æquatoriæ. — Stromata orbicularia, 1 mm. diam., 2-3-locularia; loculi immersi

180-200  $\mu$ . diam.; asci 80-100  $\times$  23-25; sporidia 20  $\times$  6-7, ovoidea, hyalina.

20. **Phyllachora subtropica** Speg. Fl. Guar. nonn. n. 107, p. 38. 2281

*Hab.* in foliis Sebastianiæ? pr. Paraguari Amer. austr. —

Stromata amphigena, plurilocularia, orbiculata, rugulosa, nigra, 1 mm. diam.; loculi 150-200  $\mu$ . diam.; asci 100  $\times$  10-11 p. sp.; sporidia 10-13  $\times$  3-5, hyalina, initio muco obducta.

21. **Phyllachora asterigena** Ell. et Ev. Proc. Acad. Phil. 1894, p. 345. 2282

*Hab.* in foliis viventibus Asteris oblongifolii, Kansas Amer. bor. (BARTHOLOMEW). — Stroma tenue ob ostiola rugulosum, hypophyllum; loculi subglobosi, 100  $\mu$ . diam.; asci... sporulæ 12-25  $\times$  4-4,5, constricto 1-septatæ, hyalinæ.

22. **Phyllachora nidulans** Pat. Bull. Soc. Myc. 1891, p. 176. 2283

*Hab.* in pag. inf. foliorum Compositæ cujusdam, Panecillo pr. Quito Æquatoriæ. — Stromata minuta 0,5-1 mm. lat. orbicularia, 4-7-locularia; asci 180-200  $\times$  20; sporidia 19-20  $\times$  10-12, hyalina.

23. **Phyllachora leviuscula** Speg. Fl. Guar. nonn. n. 102, p. 36. 2284

*Hab.* ad folia Rubiaceæ cujusdam, Paraguay. — Stromata amphigena discoideo-applanata, 1 mm. diam., opace atra, 5-12-locularia; asci 45-50  $\times$  12; sporidia 12  $\times$  6, eguttulata, hyalina.

24. **Phyllachora Symploci** Pat. Champ. Asiat. p. 3. 2285

*Hab.* in foliis Symploci cujusdam, Tonkin (BON). — Stromata epiphylla, hemisphærica, atro-nitida, 300  $\mu$ . diam., 1-locularia; asci 80-90  $\times$  20; sporidia 16-19  $\times$  8, hyalina.

25. **Phyllachora Miconiæ** P. Henn. Fung. goyaz. p. 110. 2286

*Hab.* in foliis vivis Miconiæ spec. Goyaz Brasiliæ (ULE). — Stromata epiphylla, subpulvinata, vix 0,3 mm. diam. atro-nitida. Asci 35-55  $\times$  21-24; sporidia 14-20  $\times$  9-10, granulosa, hyalino-flavidula.

26. **Phyllachora Sellowii** Henn. Fung. bras. II, p. 525. 2287

*Hab.* in foliis Miconiæ lepidotæ in Brasilia (SELLOW). — Stromata hypophylla, pulvinato-applanata, nigra, 1 mm. diam.; loculi subglobosi; asci 100-120  $\times$  7-9; sporidia 10-14  $\times$  5-6, hyalina, curvula.

27. **Phyllachora pululahuensis** Pat. Bull. Soc. Myc. 1893, p. 156. 2288

*Hab.* in foliis Melastomaceæ, Pululahua Æquatoriæ (LAGERHEIM). — Stromata atro-nitida, 1-2 mm. lat., tuberculosa, epiphylla; asci 100  $\times$  30; sporidia 23  $\times$  12, hyalina, intus granulosa.

28. **Phyllachora dendritica** Rehm, Hedw. 1892, p. 305. 2289

- Hab.* in foliis vivis ramulisque Monninae pr. Quito Æquatoriae (LAGERHEIM). — Stromata suborbicularia dein sæpe dendritica usque 1 cm. longa, atra, vix nitida; loculi immersi; asci 70 × 9; sporidia 10 × 7, hyalina.
29. **Phyllachora fructigena** P. Henn. Fung. goyaz. p. 109. 2290  
*Hab.* in copulis et pedunculis Nectandiae Goyaz Brasiliæ (ULE). — Stromata carbonaceo-atra, nitida, pulvinata, levia. Asci 30-35 × 18-24; sporidia 10-13 × 7-9, hyalina, nubilosa.
30. **Phyllachora Arrabidaeae** P. Henn. Fung. goyaz. p. 109. 2291  
*Hab.* ad folia viva Arrabidaeae spec. Goyaz Brasiliæ (ULE). — Stromata rotundata, atra vix nitida, 1-1,5 mm. diam. Asci 65-87 × 13-18; sporidia 13-15 × 4,5-5,5 guttulata, hyalina.
31. **Phyllachora Quebrachii** Speg. Fl. Guar. nonn. n. 103, p. 36. 2292  
*Hab.* ad folia viva Aspidospermæ Quebrachii, Paraguay. — Stromata minutissima, 1-2-locularia, 0,3-0,5 mm. diam., nitidula; loculi 150-200  $\mu$ . diam.; asci 80-90 × 10-12; sporidia 12-14 × 6-7, hyalina, initio leviter mucosa. *Ph. inclusæ* affinis.
32. **Phyllachora crotonicola** Pat. Bull. Soc. Myc. 1893, p. 156. 2293  
*Hab.* in foliis Crotonis, amphigena, Banos Æquatoriae (LAGERHEIM). — Stromata atro-nitida, 0,5-1 mm. lat., orbicularia; asci 100-120 × 13-15; sporidia 14-16 × 10, hyalina.
33. **Phyllachora Kärnbachii** Henn. Fung. novoguin. II, p. 39. — Stro- 2294  
matibus epiphyllis, crustaceis, pulvinatis, irregulariter rotundatis, sæpius confluentibus, rugulosis, nigris, nitentibus; loculis subglobo-  
sibus; ascis clavatis, substipitatis, octosporis 50-62 × 10-15; sporidiis ellipsoideis, raro ovoideis, hyalino-flavescentibus, 9-12 × 7-8.  
*Hab.* in foliis Fici, Nova Guinea.
34. **Phyllachora abyssinica** P. Henn. Fung. Æth. I, p. 119. 2295  
*Hab.* in foliis vivis Fici sp. in colonia Erythræa (SCHWEINFURTH). — Stromata epiphylla, atro-nitida, pauci-locularia, undulata; asci 80-120 × 14-22; sporidia 10-16 × 7-10, hyalina, subgranulata.
35. **Phyllachora Schweinfurthii** P. Henn. F. Afr. I, p. 364. 2296  
*Hab.* in foliis Fici Pseudo-Caricæ, Gheleb Erythrææ (SCHWEINFURTH). — Stromata epiphylla, punctiformia, picea; asci ellipsoidei v. clavati; sporidia 15-19 × 9-11, luteola.
36. **Phyllachora amenti** Rostr. Bidr. Ascom. Dovr. p. 5. 2297  
*Hab.* in amentis capsulisque Salicis reticulatæ, Dovre Norvegiæ. — Stromata effusa, 2-3 cm. longa; asci 50-60 × 12-14; sporidia 12-15 × 5-6; adsunt sporulæ pycnidicæ 35-45 × 1, septatæ.
37. **Phyllachora cocoicola** P. Henn. Fung. goyaz. p. 110. 2298

*Hab.* a foliis vivis *Cocoës* sp. Goyaz Brasilæ (ULE). — Stromata amphigena, gregaria, pulvinata, atro-nitidula. Asci 100-130  $\approx$  13-16; sporidia 15-18  $\approx$  7-9, biguttulata, hyalina.

38. **Phyllachora Philodendri** Pat. Bull. Soc. Myc. 1892, p. 134. 2299

*Hab.* amphigena in foliis *Philodendri* in Æquatoria (LAGERHEIM). — Stromata suborbicularia, 3-5 mm. diam., opaca, nigra; loculi immersi, 300  $\approx$  150; asci 130  $\approx$  6-7; sporidia 13  $\approx$  6, diu hyalina, demum fuscidula.

39. **Phyllachora Glaziovii** P. Henn. F. Brasil. I, p. 15. 2300

*Hab.* in foliis *Dioscoreæ pachycarpæ*, Rio Janeiro Brasilæ (GLAZIOU). — Stromata amphigena, elevato-convexa, atro-nitida 1-2 mm. diam.; asci 48-58  $\approx$  10-15; sporidia 15-22  $\approx$  6-9, ex hyalino brunnea.

40. **Phyllachora perisporioides** Sacc. Rev. Myc. 1891, p. IV (indicis). 2301

in foliis *Palmarum*, forte *Phœnicis*, in insula Oceànica Mahé (GASTON BRUNAUD). — Stromata maculiformia, suborbicularia, epiphylla, atro-nitida, 3-6 mm. diam.; loculi subglobosi, prominentes, 250  $\mu$ . diam., supra demum circumscissi; asci 40  $\approx$  35; sporidia 19-22  $\approx$  9-11, nucleato-guttulata, hyalina.

41. **Phyllachora Luzulæ** (Rabenh.) Sacc. *Sphaeria* Rabenh. Bot. Zeit. 2302

1863, p. 229. — Stromate substriæformi, atro, carnosulo, nucleo atro; ascis fasciculato-aggregatis, clavatis, 8-sporis, aparaphysatis; sporidiis ovoideis, continuis, hyalinis.

*Hab.* in foliis *Luzulæ* in Germania.

42. **Phyllachora Coicis** P. Henn. Hedw. 1895, p. 12. 2303

*Hab.* in foliis *Coicis agrestis*, Hanoi Tonkin (BALANSA). — Stromata striæformia, atra; perithecia immersa, subglobosa; asci 50-70  $\approx$  15-20; sporidia 16-22  $\approx$  11-14, hyalino-flavida. *Ph. bonariensi* affinis.

43. **Phyllachora acutispora** Speg. Fl. Guar. nonn. n. 110, p. 39. 2304

*Hab.* ad folia viva *Graminacearum*, forte *Panici*, Posta-Cué Amer. austr. — Stromata epiphylla, breve linearia, opaca, plurilocularia, 1-2 mm. longa, 0,3-0,5 mm. lat.; loculi 150-200  $\mu$ . diam.; asci 90  $\approx$  8; sporidia limoniformia fusoidea, 15-18  $\approx$  5-6, hyalina, (an tandem 1-septata?).

44. **Phyllachora Asprellæ** Roum. et Fautr. Rev. Myc. 1892, p. 175. 2305

*Hab.* in foliis *Asprellæ Hystricis* in horto Noidan, Côte-d'Or Galliæ. — Stromata amphigena, nigra suborbiculari-oblonga; asci 80-110  $\approx$  8-9; sporidia 10-14  $\approx$  6-8, hyalina, 1-guttata.

45. **Phyllachora Dactylidis** Delacr. Bull. Soc. Myc. 1892, pag. 191. 2306

t. XVII, f. 1 et in Le Bret. Niel Champ. Norm. V, Liste p. 153, fig. 7.

*Hab.* in foliis exsiccatis *Dactylidis glomeratæ* pr. Rouen Galliæ. — Stromata amphigena, atra, usque 1 mm. longa; asci 108  $\approx$  12; sporidia ex hyalino luteola, 17-18  $\approx$  9, demum leviter apiculata.

**DIACHORA** Jul. Müll. in Bot. Centralbl. 1894, vol. 57, p. 346 (Etym. *dis* bis et *achor* ulcus). Est *Placosphæria* ascis instructa. Asci cylindracei; sporidia ovoidea; paraphyses filiformesasco longiores. Est status ascophorus *Placosphæriæ*, quæ simul adest.

1. **Diachora Onobrychidis** (DC. p. p.) Jul. Müll. l. c. Habitus *Placosphæriæ Onobrychidis*, stromatibus plerumque ovalibus, 8-12 mm. long.; peritheciis sphæroideis 337  $\approx$  270  $\mu$ .; ascis 76-97  $\approx$  6,5-10; sporidiis 12-16  $\approx$  6,5-8. 2307

*Hab.* in foliis *Onobrychidis sativæ*, in Germania.

**HYALODOTHIS** Pat. et Hariot Bull. Soc. Myc. 1893, p. 210 (Etym. *hyalos* et *dothis* pro *Dothidea*). — Glumicola; stroma superficiale, ovaria v. fructus glumasque incrustans, atrum, effusum pulvinatumque, coriaceo-corneum v. subcarbonaceum, sclerotiforme; loculi numerosissimi, immersi, exigui; asci octospori; sporidia oblonga, continua, hyalina. Nonnullis notis ad *Hypocreaceas* accedit.

1. **Hyalodothis Clavus** Pat. et Hariot Bull. Soc. Myc. 1893, p. 210. *Hab.* in glumis Graminearum, Congo Africæ (DYBOWSKI). 2308  
— Stroma 1-2 cm. long. sub lente rugulosum; loculi 100-130  $\approx$  80; asci 30  $\approx$  6, clavati; sporidia fusoidea, 10  $\approx$  3, hyalina, guttulata.
2. **Hyalodothis? Caricis** Pat. l. c. p. 210 (in nota).

*Hab.* ad spicas *Caricis* cujusdam in Japonia (FAURIE). 2309  
Stroma incrustans, subglobosum, atro-nitens, 4 mm. lat.; loculi numerosi, minimi, immersi, vix prominuli; asci immaturi visi.

## Sect. 2. Phæosporæ.

**AUERSWALDIA** Sacc. — Syll. II, p. 626.

1. **Auerswaldia Baccharidis** Pat. Bull. Baiss. 1895, p. 72.

*Hab.* in ramis languidis *Baccharidis oblongifoliæ*, Pi-chincha Æquatoriæ. — Stroma ellipticum 2-4 mm. long., fusco-brunneum; loculi profunde immersi; asci 140  $\approx$  25; sporidia 20  $\approx$  10, flava. 2310

## Sect. 3. Hyalodidymæ.

**DOTHIDELLA** Speg. — Syll. II, p. 627, IX, p. 1036.

1. **Dothidella myrtincola** Rehm, Hedw. 1892, p. 305. 2311

*Hab.* in foliis Myrti, Banos Æquatoriae (LAGERHEIM). — Stromata sæpius epiphylla, hemisphærica, verrucosa, atro-nitida, 0,5-1 mm. diam.; loculi globosi; asci 90-100 = 18-20; sporidia 12-15 = 7-8, 1-septata, hyalina.

2. **Dothidella inæqualis** Cooke Grev. XX, p. 5. 2312

*Hab.* in foliis emortuis Eucalypti, Victoria Australiæ (MARTIN). — Stromata erumpenti-superficialia, amphigena, atro-nitida, 2 mm. diam. 3-5 locularia; asci clavati; sporidia 20-24 = 6, inæqualiter bilocularia, ex hyalino succinea; loculi subinde stylosporei; sporulis 50-55 = 3, hyalinis, 3-5-septatis.

3. **Dothidella Melastomatis** Pat. Bull. Soc. Myc. 1891, p. 177. 2313

*Hab.* in foliis Melastomaceæ cujusdam, Tambillo Æquatoriae (LAGERHEIM). — Stromata epiphylla, applanata, facile dilabentia, 1-5 mm. lat.; loculi numerosissimi, intus albi; asci 65-95 = 12-15; sporidia 14-18 = 5-6, chlorino-hyalina, inæqualiter 1-septata.

4. **Dothidella pulvinulata** Pat. Bull. Soc. Myc. 1893, p. 157. 2314

*Hab.* in foliis Loranthaceæ cujusdam, Corazon Æquatoriae (LAGERHEIM). — Stromata pulvinata, sæpe hypophylla 2-3 mm. diam. plurilocularia; loculi 200  $\mu$ . diam.; asci 80-100 = 20-25; sporidia 35 = 6-7 constricto, 1-septata, hyalina.

5. **Dothidella? Thieleodoxæ** P. Henn. Fung. goyaz. p. 111. 2315

*Hab.* in foliis vivis Thieleodoxæ lanceolatae, Goyaz Brasiliæ (ULE). — Stromata amphigena, carbonaceo-cornea, hemisphærico-pulvinata, atra, rugulosa, 0,5-2 mm. diam. Asci 30-40 = 15-20; sporidia 12-14 = 8-9, medio 1-septata, levia, hyalina.

6. **Dothidella Bambusæ** Cooke Grev. XX, p. 91. — Epiphylla; stromatibus oblongis ellipticisve, minutis, convexis, atris  $\frac{1}{2}$ -1 mm. long., loculis paucis; ascis clavatis; sporidiis lanceolatis, medio uniseptatis, intus granulatis, pallidis, 40-45 = 10. 2316

*Hab.* in foliis Bambusæ in Brasilia (GLAZIOU).

7. **Dothidella Laminariæ** Rostr. Myk. Meddel. V, p. 213, 218, fig. 3. 2317

*Hab.* in stipitibus Laminariæ longicruris, in littore occid. Groenlandiæ (HARTH). — Stroma effusum, atrum, loculi immersi, 120-140  $\mu$ . diam. Asci 65-70 = 12-14; sporidia 20-21 = 7-8, 1-septata, non constricta, hyalina.



**MONOGRAPHOS** Fuck. — Syll. II, p. 457 (inter Hypocreaceas).

- 1.
- Monographos microsporus**
- Niessl in Rehm, Hedw. 1888, p. 171. 2318

*Hab.* in frondibus Pteridis aquilinæ in Germania. — Asci 36-45 = 5; sporidia clavata 1-septata, 8-10 = 2,5-3, hyalina, submonosticha. Teste auctore et cl. Rehm l. c. *Didymella pteridicola* (B. et C.) Sacc. Syll. I, p. 561, huc spectat. — Var. **Struthiopteridis** Krieger in Rehm Hedw. 1892, p. 303. In frondibus Struthiopteridis in Germania: asci 50 = 9; sporidia fusioidea 12-14 = 4-4,5, 1-septata, hyalina.

**SCIRRHIA** Nits. — Syll. II, p. 635, IX, p. 1040.

- 1.
- Scirrha ostiolata**
- E. et Gallow. North Am. Pyr. p. 742. 2319

*Hab.* in calamis emortuis Cyperi articulati, Texas Amer. bor. (JENNINGS). — Stromata oblongo-elliptica, 3-6 = 1-1,5 mm. plurilocularia; asci 55-65 = 6-7; sporidia 12-15 = 3-4, constricto-1-septata, hyalino-flavida.

**PLOWRIGHTIA** Sacc. — Syll. II, p. 635, IX, p. 1041I. *Eu-Plowrightia*. Asci 4-8-spori.

- 1.
- Plowrightia Karsteni**
- Delacr. Bull. Soc. Myc. 1891, p. 104, t. VII, 2320
- 
- fig. a.

*Hab.* in cortice ramorum Betulæ, Mustiala Fenniae. — Stromata innato-erumpentia, atra, 1 mm. long.; loculi pauci, sphaerico-applanati; asci 120 = 14; sporidia 25 = 9-10, 1-septata, hyalina (raro uno alterove loculo bipartito).

- 2.
- Plowrightia concaviuscula**
- (E. et E.) Sacc.,
- Dothidea*
- E. et E. North 2321
- 
- Am. Pyr. p. 612.

*Hab.* in ramis emortuis Magnoliæ glaucæ, Newfield N. J. Amer. bor. — Stromata inæqualia 1-2 = 0,7-1 mm. sæpius concava, nigra; loculi 100  $\mu$ . diam.; asci 55-65 = 12-15; sporidia 15 = 4, uniseptata e flavido hyalina.

II. *Plowrightiella* Sacc. Asci polyspori.

- 3.
- Plowrightia polyspora**
- (Bref.) Sacc.
- Dothidea polyspora*
- Bref. 2322
- 
- Unters. X, p. 269, t. IX, f. 33-38.

*Hab.* in ramulis Callunæ vulgaris prope Münster. — Stromata subrotunda 1 mm. diam. erumpentia, plurilocularia; asci 105-123 = 16-18; sporidia 32,15-20 = 4-5, fusioidea, constricto 1-septata hyalina, cellula superiore crassiore.

Sect. 4. Phæodidymæ.

**DOTHIDEA** Fr. — Syll. II, p. 639, IX, p. 1043.

1. **Dothidea Cercocarpi** E. et Ev. New west-Amer. Fung. 22 in Erythea Vol. II, 1894. 2323

*Hab.* in foliis *Cercocarpi ledifolii*, California (MAC-CLATCHIE). — Stromata hypophylla, tuberculiformia, 250  $\mu$ . diam. sæpius connata; loculi 130-170  $\mu$ . diam.; asci 75-85  $\times$  18-20; sporidia 18-25  $\times$  8-10, uniseptata, leviter constricta flavo-atra.

2. **Dothidea? aspera** De Not. Grev. XX, p. 107. 2324

*Hab.* in ramis *Ribis aurei*, Genova Ital. bor. — Asci adsunt sed sporidia immatura. Habitus *Dothideæ*. Cfr. Cooke l. c.

3. **Dothidea aloicola** P. Henn. F. Æthiop. I, p. 120. 2325

*Hab.* in foliis vivis *Aloes* in *Erythræa* (SCHWEINFURTH). — Stromata amphigena, applanato-convexa, 1 cm. diam., atro-sanguinea, dein nigra-nitentia; asci 35-52  $\times$  24-35; sporidia 17-22  $\times$  7-9, constricto-1-septata, ex hyalino fuscescentia.

Sect. 5. Phragmosporæ.

**MONTAGNELLA** Speg. — Syll. II, p. 646, IX, p. 1043.

1. **Montagnella rugulosa** Cooke Grev. XX, p. 5. — Epiphylla vel hypophylla; stromate tenui suborbiculari 1 mm. diam., atro, depresso, rugoso, loculis polyascis; ascis clavatis; sporidiis lanceolatis, tri-septatis, dilute olivaceis, 20  $\times$  6. 2326

*Hab.* in foliis *Eucalypti*, Victoria Australiæ (MARTIN).

2. **Montagnella acerina** E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 133. 2327

*Hab.* in ramulis emortuis *Aceris spicati*, Ontario, Canada, (DEARNESS). — Perithecia subglobosa, 250  $\mu$ . diam. in soros 1 mm. diam. dense conferta; asci 60-65  $\times$  6 (p. sp.); sporidia 10-12  $\times$  4-5, 3-septata e flavido-v. olivaceo hyalina.

3. **Montagnella abietina** E. et E. New West Amer. Fun. in Erythea p. 199. 2328

*Hab.* in ramis emortuis *Abietis*, Washington Amer. bor. (PARKER). — Perithecia ovato-globosa, 0,3 mm. diam., stromate obsolete basi juncta; asci 75-80  $\times$  10; sporidia 15-20  $\times$  5-6, 3-septata, flavido-hyalina.

4. **Montagnella uberata** Sacc. Fung. Abyss. p. 6, t. XX, f. 8. — Stro- 2329

matibus amphigenis, magnis, erumpentibus, convexo-prominentibus, 8-9 mm. lat., 3 mm. alt., nigris, intus e matricis contextu infuscato deformato conflatis, coriaceo-sclerotioideis, epidermide areolatim fissa diu velatis; peritheciis seu loculis in superficie stromatis confertissimis, globoso-hemisphæricis, prominulis, subastomis, perexiguis, 60-120  $\mu$ . d., glabris, ima basi tantum hyphis fuligineis, ramulosis 3  $\mu$  cr. continuis cinclis, contextu perithec. duriusculo obscure celluloso, atro-fuligineo; ascis in quoque perithecio paucis, ex ovato oblongis, subsessilibus, lumine initio sursum angustato, octosporis, 45-50  $\times$  15, raro longioribus; sporidiis subtristichis, fusoides utrinque obtusulis, rectis v. curvulis, 18-22  $\times$  5, 4-guttatis, demum 3-septatis, melleis; paraphysisibus concretis.

*Hab.* in foliis vivis Aloes abyssinicæ, Gheleb, Erythrææ. — Species omnino distincta, at ob ostiola latentia a genere desciscens.

5. **Montagnella? clavata** Pat. Bull. Soc. Myc. 1893, p. 156. 2330

*Hab.* in foliis Melastomatis, Pululahua Æquatoricæ (LAGERHEIM). — Stromata hypophylla, in soros 6-8 mm. latos aggregata, atra, intus alba, stipitata, 0,2-0,3 mm. alta; loculi exserti, pycnidici, sporulis 3  $\times$  1 hyalinis; asci non visi.

**RHOPOGRAPHUS** Nits. — Syll. II, p. 647.

1. **Rhopographus Zeæ** Pat. Bull. Soc. Myc. 1893, p. 156. 2331

*Hab.* in culmis dejectis Maydis, Pululahua Æquatoricæ (LAGERHEIM). — Stromata parallela linearia, 0,5-3 mm. long., nigra; loculi 2-5 sphæroidei; asci 100-150  $\times$  20; sporidia fusoides 3-5-septata, medio constricta, 33-40  $\times$  6-7, mellea.

2. **Rhopographus fusariisporus** E. et E. New West-Amer. Fung. p. 23 2332  
in Erythea Vol. II, p. 1894.

*Hab.* in culmis emortuis Panicis virgati, Kansas Amer. bor. — (BARTHOLOMEW). — Stromata elliptico-linearia, 0,5-1,5 mm. long. loculi 1-seriati, globosi; asci 65-75  $\times$  7-8; sporidia 3-septata, hyalina, 20-27  $\times$  3,5-4.

Sect. 6. Dictyosporæ.

**CURREYA** Sacc. — Syll. II, p. 651, IX, p. 1051.

I. *Eu-Curreya*. Sporidia colorata.

1. **Curreya Harknessii** E. et E. North Am. Pyr. p. 618. 2333

*Hab.* in caulibus emortuis Convolvuli californici in California. — Stromata minuta vix 1 mm. diam. depresso-hemisphæ-

Pyrenomyceteæ, Microthyriaceæ, Hyalodidymæ, Microthyrium. 379  
rica, pauci-ocularia; asci tereti-oblongi; sporidia 12-15  $\times$  5-6, tri-  
septata parceque muriformia, flavo-brunnea.

2. *Correya pusilla* Karst. et Malbr. in Le Bret. et Niel Champ. Norm. 2334  
V Liste p. 154.

*Hab.* in ligno denudato Sambuci, pr. Rouen Galliæ. — Stromata elongato-ovalia, convexula, atra, 2-3 mm. long.; asci 95-135  $\times$  12; sporidia 18-21  $\times$  7-9, triseptata, septo longit. accedente, dilute melleo-fuliginea.

3. *Curreya ulmicola* Passer. Diagn. funghi nuovi ser. V, n. 20. — 2335

Stromatibus sparsis vel subgregariis ligno adnatis erumpentibus, subglobosis, fusco-rubiginosis, extus ostiolis punctulatis, localis subcircuinatis, fuscis; ascis cylindricis breviter constricto-stipitatis, 8-sporis, 125-160  $\times$  10-12; sporidiis uniseriatis, ellipticis 3-5-septatis, muriformibus, fuscis 20  $\times$  10; paraphysibus filiformibus guttulatis.

*Hab.* in ramis putrescentibus Ulmi montanæ, Vigheffio pr. Parma Ital. bor.

#### II. *Curreyella* Sacc. Sporidia hyalina.

4. *Curreya Rehmii* Schnabl in Berichte bay. bot. Gesell., 1892, II, 2336  
p. 66.

*Hab.* in ramis emortuis Ribis Grossulariæ et R. rubri pr. München Baviariæ. — Stromata hemisphærica v. oblonga, nigra intus pallida; loculi majusculi; asci 160-200  $\times$  12; sporidia 3-7 (plerumque 5-)septata et muriformia, hyalina, 22-24  $\times$  10-11.

#### Fam. 6. Microthyriaceæ Sacc.

##### Sect. 1. Hyalosporæ.

**MYIOCOPRON** Speg. — Syll. II, p. 659, IX, p. 1053.

1. *Myiocopron Lycopodii* Rostr. in Beiheft. Bot. Centr. 1893, p. 3. 2337

*Hab.* in foliis Lycopodii complanati, Jutland. — Perithecia minuta, nigra; asci 25  $\times$  5, paraphysati; sporidia oblongata, 6  $\times$  1,5, continua.

##### Sect. 2. Hyalodidymæ.

**MICROTHYRIUM** Desm. — Syll. II, p. 662, IX, p. 1055.

1. *Microthyrium Angelicæ* Fautr. et Roum. Rev. Myc. 1892, p. 8. 2338

*Hab.* in caulibus siccis Angelicæ silvestris, Cole-d'Or

380 Pyrenomycetæ, Microthyriaceæ, Hyalodidymæ, Clypeolum.

Galliæ. — Perithecia punctiformia, applanata; asci 14-20 = 14 vel 30 = 15; sporidia 1-septata, hyalina, 10-14 = 4-5.

2. **Microthyrium Urbani** Bres. Pilze Portor. Sinten. p. 500. 2339

*Hab.* in ramulis Schæfferiæ frutescentis, Porto Rico (SINTENIS). — Perithecia dimidiata, ambitu irregulari, vix radiato, 0,3 mm. lat.; asci 35-45 = 10-20; sporidia 14-16 = 6, 1-septata, subclavata, chlorino-hyalina.

3. **Microthyrium acervatum** Speg. Fl. Guar. nonn. n. 116, p. 40. 2340

*Hab.* ad folia viva Rutaceæ spec., Jacan-guazù Amer. merid. Perithecia dimidiata 60-70  $\mu$ . diam., dense constipata, plagulas epiphyllas nigras 1-2,5 mm. diam., formantia; asci 30 = 15; sporidia 10 = 5, constricto-1-septata, subhyalina.

4. **Microthyrium confluens** Pat. Bull. Boiss. 1895, p. 72. 2341

*Hab.* in pag. sup. Solani et Cestri, in Æquatoria. — Perithecia dimidiata, confluentia, 100-200  $\mu$ . lat., contextu radiante; asci 45 = 16; sporidia clavulata, 1-septata, 15 = 6-6, hyalina.

5. **Microthyrium Michelianum** Togn. Seconda Contr. Micol. tosc. p. 7. 2342

*Hab.* in ramis corticatis Castaneæ vescæ in Etruria. — Perithecia dimidiata centro pertusa, 200  $\mu$ . diam.; asci 8-spori, 60 = 13-15; sporidia 13 = 5-6, constricto-1-septata, plurinucleata, hyalina.

6. **Microthyrium crustaceum** Pat. Bull. Soc. Myc. 1893, p. 157. 2343

*Hab.* in pag. sup. foliorum Filicum, Milegalli Æquatoriæ (LAGERHEIM). — Perithecia dimidiata, rugosa, nigra, plagas ambitu radiantibus, 0,5 = 1 mm. lat., formantia; asci 25-30 = 10; sporidia clavata, 8-10 = 2-3, 1-septata, hyalina.

**CLYPEOLUM** Speg. — Syll. I, p. II, p. 667, IX, p. 1061.

1. **Clypeolum circinans** Pat. Bull. Soc. Myc. 1893, p. 158. 2344

*Hab.* in foliis Asclepiadaceæ cujusdam, S. Jorge Æquatoriæ (LAGERHEIM). — Perithecia epiphylla, dimidiata, circinantia, 300  $\mu$ . diam.; asci 40 = 16; sporidia ovata, 1-septata, 15 = 5, hyalina.

2. **Clypeolum dissiliens** Cooke Grev. XX, p. 91. — Peritheciis spar- 2345

sis, superficialibus, sæpe gregariis, macula nulla insidentibus, lenticularibus, glaberrimis, atris, nitidis  $\frac{1}{2}$  mm. carbonaceis, astomis; ascis subclavatis, octosporis; sporidiis fusiformibus, uniseptatis, medio secentibus, hyalinis, intus granulatis vel nucleolatis, 70-80 = 8  $\mu$ .

*Hab.* in foliis coriaceis in Brasilia (GLAZIOU).

3. **Clypeolum amazonicum** Cooke et Masee Grev. XXI, p. 76. 2346

*Hab.* in foliis coriaceis dejectis, Maribitanas Brasiliæ (SPRUCE).

Pyrenomycetæ, Microthyriaceæ, Phragmosporæ, Micropeltis. 381  
— Perithecia epiphylla, dimidiata, 300  $\mu$ . diam.; asci cylindranei;  
sporidia 15-18  $\times$  3-5, 1-septata, hyalina.

*Sect. 3. Phædidymæ.*

**SEYNESIA** Sacc. — Syll. II, p. 668, IX, p. 1064.

1. **Seynesia? nebulosa** Speg. F. Guar. nonn. n. 117, p. 41. 2347

*Hab.* ad folia viva Myrsines, Caa-Guazú Amer. austr. —  
Perithecia dimidiata, atra, 120-150  $\mu$ . diam., margine fimbriata;  
asci 70-80  $\times$  12-14; sporidia 16-18  $\times$  6-7, constricto-1-septata, fu-  
liginea.

*Sect. 4. Phragmosporæ.*

**MICROPELTIS** Mont. — Syll. II, p. 669, IX, p. 1069.

1. **Micropeltis Flageoletii** Sacc. Grev. XXI, p. 67, t. 184, f. 8. — My- 2348

celio filiformi repente tenuissimo pallido; peritheciis sparsis am-  
phigenis, dimidiatis, scutiformibus, nigris, 300  $\mu$ . diam., subastomis  
contextu radiatim celluloso, margine fimbriato; ascis fasciculatis,  
fusoideis, utrinque obtusulis, octosporis, aparaphysatis, 50-60  $\times$   
14-16; sporidiis fusoideis sæpe curvulis, utrinque obtusulis, con-  
strictulo-3-septatis, 18-21  $\times$  5-6, hyalinis.

*Hab.* in foliis vivis Hederæ Helicis et Ilicis Aquifolii,  
Rigny Galliæ (FLAGEOLET).

2. **Micropeltis Blyttii** Rostr. Bidr. Ascom. Dovr. p. 6. 2349

*Hab.* in foliis Andromedæ hypnoidis, Dovre Norvegiæ. —  
Perithecia dimidiata, scutata, orbicularia, margine fimbriata, cen-  
tro perforata, contextu eximie radiato; asci 50  $\times$  12-13; sporidia  
triseptata, 32-34  $\times$  2,5-4, hyalina.

3. **Micropeltis carniolica** Rehm Hedw. 1892, p. 307. 2350

*Hab.* in foliis vivis Pirolæ rotundifoliæ in Carniolia (S.  
ROBIC). — Perithecia epiphylla, hemisphærica, dimidiata, 100-250  
 $\mu$ . diam.; asci 36-45  $\times$  15; sporidia 18-22  $\times$  5, 3-septata, constri-  
ctula hyalina.

4. **Micropeltis Oleæ** Togn. Seconda Contr. Micol. tosc. p. 8. 2351

*Hab.* in ramulis corticatis Oleæ europææ in Etruria. — Pe-  
rithecia dimidiato-scutata, 300  $\mu$ . diam.; asci 8-spori, 45-55  $\times$  12;  
sporidia subspiraliter conglobata, falcata, 27-29  $\times$  4-5, pluriguttata,  
3-5-septata, hyalina.

5. **Micropeltis Sprucei** (Cooke) Sacc. *Microthyrium Sprucei* Cooke 2352  
et M. Grev. XXI, p. 76.

*Hab.* in foliis « Arara-apoku », St. Gabriel Brasilæ (SPRUCE).  
— Perithecia epiphylla, scutata, margine fimbriata 0,5 mm. diam.;  
asci elliptico-clavati; sporidia fusoides, 3-5-septata, 28-32  $\times$  8-9,  
hyalina.

6. **Micropeltis vagabunda** Speg. F. Guar. nonn. n. 126, p. 44. 2353

*Hab.* in foliis vivis *Aspidospermæ Quebrachii* pr. Ya-  
guaron Amer. merid. — Perithecia amphigena, dimidiata 100-120  
 $\mu$ . diam., margine subintegra; asci 35-40  $\times$  14-16; sporidia 14-18  
 $\times$  3-5, 3-septata, hyalina.

7. **Micropeltis Marattiæ** P. Henn. Hedw. 1895, p. 13. 2354

*Hab.* in pag. inf. foliorum *Marattiæ salicifoliæ*, Natal  
Africæ austr. (BAUR). — Perithecia punctiformia, pulvinata; asci  
60-70  $\times$  10-14; sporidia 27-35  $\times$  3-4, pluriseptata, hyalina.

8. **Micropeltis? Balansæ** Speg. F. Guar. nonn. n. 127, p. 44. 2355

*Hab.* ad folia viva plantæ ignotæ, Caa-Guazû Amer. merid.  
— Perithecia amphigena, dimidiata, opaca, 100-120  $\mu$ . diam., mar-  
gine subintegra; asci 35-50  $\times$  22-25; sporidia 18-24  $\times$  5-6, hyalina,  
5-7-septata, loculo centrali subinde longit. diviso.

### Fam. 7. Lophiostomaceæ Sacc.

#### Sect. 1. Phæodidymæ.

**SCHIZOSTOMA** Ces. et De Not. — Syll. II, p. 673, IX, p. 1074.

#### I. *Eu-Schizostoma*. Perithecia glabra.

1. **Schizostoma hysterooides** E. et E. New sp. North Amer. Fung. 2356  
in Proceed. Acad. S. N. Philad. 1893, p. 132 (*Lophiosphæra*).

*Hab.* in ramis emortuis *Caryæ*, Louisiana Amer. bor. (LAN-  
GLOIS). — Perithecia hemisphærica 0,7 mm. diam., ostiolo lineari  
compresso, subinde hysteroideo; asci 55-60  $\times$  8 (p. sp.); sporidia  
16-18  $\times$  4-4,5, constricto-1-septata, pallide flavido-brunnea.

#### II. *Baccarina* Sacc. \*) Perithecia albo-tomentosa.

1. **Schizostoma ovinum** Ell. et Ev. Bull. Univ. Jowa 1893, p. 403 2357  
(*Lophiostoma*).

\*) In honorem P. BACCARINI, in universitate catinensi botanices professo-  
ris et de mycologia romana et neapolitana bene meriti.

*Hab.* in truncis, Castillo viejo Amer. centr. (SMITH). — Perithecia subglobosa, superficialia, albo-tomentoso-squamosa excepto ostiolo nudo, compresso-elliptico, prominente rimoso; asci 60 × 10; sporidia 15-20 × 4-5, constricto-1-septata, hyalina demum pallide brunnea. Habitus fere *Lasiosphæriæ ovinae*.

### Sect. 2. Hyalodidymæ.

**LOPHIOSPHÆRA** Trev. — Syll. II, p. 675, IX, p. 1075.

1. *Lophiosphæra gloniospora* E. et E. New sp. North Amer. Fung. 2358  
in Proceed. Acad. S. N. Philad. 1893, p. 132.

*Hab.* in ramis decorticatis Salicis, Montana Amer. bor. (FITCH). Perithecia 0,7 mm diam., ostiolo compresso, minuto; asci 100-110 × 10-12; sporidia 12-16 × 6-7, constricto-1-septata, hyalina.

2. *Lophiosphæra fluviatilis* E. et E. New sp. North Amer. Fung. in 2359  
Proceed. Acad. S. N. Philad. 1893, p. 133.

*Hab.* in ramis decorticantis salicinis (?), Montana Amer. bor. (FITCH). — Perithecia 0,3-0,5 mm. diam., ostiolo compresso, tenui, vario; asci 75-80 × 12; sporidia 20-23 × 5-6, constricto-1-septata, hyalina.

3. *Lophiosphæra aspera* Ell. et Ev. Proc. Acad. Phil. 1894, p. 332. 2360

*Hab.* in cortice Ulmi americanæ, Kansas (BARTHOLOMEW). — Perithecia 400-450 μ. alt., 330 μ. lat., ostiolo angusto, compresso; asci 90-100 × 12; sporidia 18-21 × 7-8, constricto-1-septata, flavido-hyalina.

### Sect. 4. Phæophragmiæ.

**LOPHIOSTOMA** (Fr.) Ces. et De Not. — Syll. II, p. 689, IX, p. 1083.

1. *Lophiostoma Thujæ* E. et E. North Am. Pyr. p. 226. 2361

*Hab.* in foliis Thujæ occidentalis subemortuis, New York et Canada. — Perithecia 0,3-0,5 mm. lat., ostiolo compresso, angusto; asci 50-70 × 12-15; sporidia 14-16 × 3-4, 3-septata, flavido-brunnea.

2. *Lophiostoma clavulatum* Passer. Diagn. funghi nuovi V, n. 21. — 2362

Peritheciis sparsis vel subgregariis, subcutaneis, globosis, atris, ostiolo compresso, lineari erumpentibus; ascis clavatis, paraphysibus filiformibus tenuissimis stipatis, 8-sporis, 70-85 × 10-12; sporidiis subdistichis, clavulatis, deorsum attenuato-acutis, superne rotundatis, primo 1 septatis, dein 3-septatis, non constrictis, oculis



nunquam guttulatis, junioribus flavis, tandem fuscescentibus, 18-20 = 5-6.

*Hab.* in ramulis siccis Spartii juncei, Tabiano pr. Parma Ital. bor. — A *Lophiostomate quadrinucleato* et *L. rhopaloide* recedit sporidiis paulo minoribus non guttulatis et a *L. Spartii* Nitsch. sporidiis nunquam 5-septatis et eorum forma.

3. **Lophiostoma speciosum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 332. 2363

*Hab.* in cortice Fraxini viridis. Kansas Amer. bor. (BARTHOLOMEW). — Perithecia globosa 0,7 mm. diam., ostiolo compresso, deciduo; asci 150-200 = 22-25; sporidia 40-55 = 13-16, olivaceo-brunnea, 10-11-septata.

Sect. 5. Dictyosporæ.

**LOPHIDIUM** Sacc. — Syll. II, p. 710, IX, p. 1091.

1. **Lophidium confertum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 334. 2364

*Hab.* in ramis decorticatis Fraxini viridis, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia conica, 300-400  $\mu$ . diam., ostiolo subcompresso, apice rimoso; asci 100-110 = 12-15; sporidia 12-15 = 10-12, flavido-brunnea, 3-septato-muriformia.

2. **Lophidium nitidum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 333. — 2365

*Hab.* in sarmentis emortuis Vitis, Nuttallburg, Virginia (NUTTALL). — Perithecia 200-250  $\mu$ . diam., atro-nitida, ostiolo compresso, tenui; asci 100 = 10-12; sporidia 5-7-septato-muriformia, flavo-brunnea, 10-22 = 8-10.

3. **Lophidium purpurascens** Ell. et Ev. Proc. Acad. Phil. 1894, p. 333. 2366

*Hab.* in charta vetusta dejecta, Michigan Amer. bor. — Perithecia maculis purpurescentibus inserta, 0,5 mm. diam., ostiolo obtuso compresso; asci 100-150 = 15-20; sporidia 22-25 = 8-10, olivaceo-brunnea, 7-10-septata parceque muriformia.

4. **Lophidium pachystomum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 333. 2367

*Hab.* in cortice Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia depresso-globosa 0,7-1 mm. diam., ostiolo cylindræo modice compresso 0,2-0,5 mm. long.; asci 110-120 = 18-22; sporidia 27-50 = 12-15, atro-brunnea, 6-12-septato-muriformia.

*Fam. 7. Corynellaceæ* Sacc. — Syll. IX, p. 1073.

**CORYNELIELLA** Hariot et Karst. Rev. Mycol. 1890, p. 128 (Etym. a *Corynelia*, cui affinis). — Perithecia lageniformia, coriacea, atra, in collum apice infundibuliformiter expansum desinentia, carbonacea. Asci cylindranei, octospori. Sporidia ellipsoidea, 3-septata, dilute fuliginea. Paraphyses filiformes.

1. **Coryneliella consimilis** Har. et Karst. l. c. — Peritheciis solitariis 2367 v. cæspitose-gregariis, basi matrice insculptis, carbonaceis, fragilibus, teretibus, glabris, atris, usque ad 1 mm. alt., primo pertusis, dein ore ampliato apertis, intus demum in pulverem fatiscentibus; ascis cylindraneis, octosporis; sporidiis ellipsoideis, 3-septatis, dilute fuligineis, 14-16  $\approx$  8-10; paraphysibus 0,5  $\mu$ . cr.

*Hab.* in insula Mauritius Africae.

*Fam. 8. Hemihysteriaceæ* Speg.

**HYSTEROSTOMELLA** Speg. — Syll. IX, p. 1094.

1. **Hysterostomella andina** Pat. Bull. Boiss. 1895, p. 73, t. II, fig. 4. 2368

*Hab.* in pag. sup. foliorum Filicum, Milegalli Æquatoriae. — Stromata dimidiata, centro adfixa, sublenticularia, ambitu perithecigera, perithecia elongata semel vel bis concentrica, rimam circularem formantia; asci 50  $\approx$  20; sporidia brunnea, inæqualiter, 1-septata, 15  $\approx$  5.

*Fam. 9. Hysteriaceæ* Corda.

*Sect. 1. Hyalosporæ.*

**HYPODERMELLA** Tubeuf, Bot. Centralbl. 1895, I, p. 48 (Etym. ab *Hypodermate* cui analogum genus). — Perithecia atra, nitida, longitrossum dehiscentia. Asci cylindranei, subsessiles, 4-spori. Sporidia continua, lacrimæformia, mucro hyalino obducta.

1. **Hypodermella Laricis** Tubeuf l. c. 2369

*Hab.* in foliis Laricis, cui certe noxia, Semmering Austriae, Asci 110  $\mu$ . longi; sporidia 66  $\approx$  16. hyalina.

2. **Hypodermella sulcigena** (Link) Tubeuf l. c. *Lophodermium sul-* 2370  
*cigenum* (Link) Rostr. — *Hypodermium* Link — Syll. III, p. 729.

*Hab.* in foliis Pini montanæ et P. silvestris hinc inde.

## Sect. 2. Hyalodidymæ.

**AULOGRAPHUM** Lib. — Syll. II, p. 727. IX, p. 1101.

1. **Aulographum gracile** Ell. et Mart. North Am. Pyr. p. 678. 2371

*Hab.* in foliis *Quercus aquaticæ*, Texas Amer. bor. (RAVENEL). — Perithecia subramosa, linearia 1 mm. long., 60-70  $\mu$ . lat.; asci 20-25  $\approx$  10-12; sporidia 7-8  $\approx$  3-3,5, 1-septata, hyalina.

2. **Aulographum Quadriæ** Berk. in Grev. vol. 22, p. 15. 2372

*Hab.* in foliis *Quadriæ heterophyllæ*, Chili. — Perithecia linearia, prominula, subrecta 0,5 mm. long.; asci crasse clavati; sporidia 8-10  $\approx$  4-5, 1-septata, hyalina.

**GLONIUM** Mühl. — Syll. II, p. 731, IX, p. 1103 \*).

1. **Glonium caryigenum** E. et E. North Am. Pyr. p. 682. 2373

*Hab.* in nucibus dejectis *Caryæ* Newfield N. J. Amer. bor. — Perithecia 0,5-1 mm. long., oblonga; asci 70  $\approx$  10-12; sporidia 12-15  $\approx$  5-6, 1-septata, hyalina, septo constrictula.

2. **Glonium betulinum** Rostr. Till. Grönl. Svamp. p. 613. 2374

*Hab.* in ramulis decorticatis *Betulæ odoratæ* in Groenlandia. — Perithecia ellipsoidea, atra, 1 mm. longa; asci 100-115  $\approx$  14-16; sporidia 32-38  $\approx$  8-12, constricto-1-septata, 4-guttata, hyalina.

3. **Glonium velatum** E. et E. North Am. Pyr. p. 684. 2375

*Hab.* in lignis putridis, Louisiana Amer. bor. (LANGLOIS). — Perithecia 1 mm. long., nigra longit. striata; asci 70-75  $\approx$  8-10; sporidia 20-25  $\approx$  3,5-4,5, 4-nucleata, 1-septata (an demum 3-septata?).

4. **Glonium Eupatorii** (Lasch) Sacc., *Hysterographium* Lasch in Bot. Zeit. 1863, p. 229. 2376

*Hab.* in caulibus *Eupatorii* in Germania. — Perithecia erumpentia, oblonga, nigra, dein longitudinaliter aperta, disco albido; asci distincti; sporidia ovalia, 1-septata.

\*) *Glonii* subgen. *Delphinella* Sacc. Syll. IX, p. 1103, congruit cum gen. *Hariotia* Karst. Syll. IX, p. 672; sed genus hysteriaceum reapse videtur.

## Sect. 3. Phæodidymæ.

**TRYBLIDIUM** Duf. — Syll. II, p. 740, IX, p. 1103.

1. **Tryblidium ohioense** E. et E. New Fung. Proceed. Acad. N. Sc. 2377  
Philad. 1893, p. 456.

*Hab.* in lignis putridis, Ohio Amer. bor. (MORGAN). — Perithecia oblongo-elliptica, 1-1,5  $\approx$  0,5-0,7 mm., uni-bistriata; asci 75-80  $\approx$  8-10; sporidia 12-15  $\approx$  4-5, 1-septata, brunnea.

2. **Tryblidium goyazense** P. Henn. Fung. Goyaz. p. 112. 2378

*Hab.* in ramis siccis Goyaz Brasilæ (E. ULE). — Perithecia oblonga, 2-2,5  $\approx$  1,5-2 mm., atro-brunnea, disco cinnamomeo-pruinoso; asci 180-220  $\approx$  11-15; sporidia 25-28  $\approx$  10-14, brunneo-atra, 1-septata.

**LEMBOSIA** Lév. — Syll. II, p. 741, IX, p. 1104.

1. **Lembosia macrospora** Sacc. et Paol. Myc. Malac. p. 25, t. VII, 2379  
fig. 1.

*Hab.* in foliis coriaceis arboris ignotæ, Malacca (SCORTECHINI). — Perithecia hypophylla, dimidiata 0,5-1 mm. lat.; asci 70  $\mu$ . diam.; sporidia 45  $\approx$  21, constricto-1-septata, tandem fuliginea.

2. **Lembosia nobilis** Speg. Fl. Guar. nonn. n. 129, p. 45. 2380

*Hab.* in foliis vivis plantæ ignotæ, Caa-Guazú, Amer. merid. — Perithecia mycelio dense intertexto inserta, ellipsoidea v. trigona, minuta, 150-200  $\approx$  110; asci 24-30  $\approx$  16-20; sporidia 14-16  $\approx$  5-6, 1-septata, fuliginea.

**PARMULARIA** Lév. — Syll. II, p. 662.

1. **Parmularia Styracis** Lév. Henn. Fung. goyaz. p. 111. — Syll. II, 2381  
p. 662 (immatura) *Schneepia?* *Arechavaletæ* Speg.? — Asci 70-100  $\approx$  12-15; sporidia 14-18  $\approx$  7-8, utrinque obtusa fusco-brunnea, subconstricto-1-septata. In foliis *Styracum* in Brasilia. — var. **minor** Henn. l. c.; asci 45-65  $\approx$  15-18  $\approx$  7-8, fusco-brunnea, ut in typo. In foliis *Styracis* sp., Goyaz Brasilæ.

## Sect. 4. Phæophragmiæ.

**HYSTERIUM** Tode em. — Syll. II, p. 743, IX, p. 1108.

1. **Hysterium cedrinum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 346. 2382

*Hab.* in ligno emortuo *Thuja occidentalis*, Kansas Amer. bor. — (BARTHOLOMEW). — Perithecia anguste elliptica 0,2-0,5 mm. long., nigra, opaca; asci 45-55 = 16-17; sporidia triseptata, tota brunnea, 18-21 = 7-8, 4-nucleata.

2. **Hysterium Citri** Henn. Fung. novoguin. II, p. 39. — Peritheciis 2383  
gregariis superficialibus, oblongo-cylindræis, sæpe subcurvulis, elevatis, rima longitudinali percursis, labiis crassis, obtusis atris, carbonaceo-corneis 1-1,5 mm. long., 0,5-8 mm. lat.; ascis cylindræis, 3-5-sporis; paraphysibus filiformibus; sporidiis monostichis, oblongis utrinque obtusis, primo 1-septatis, flavo-fuscis, multiguttatis, dein 3-septatis, medio subconstrictis, fusco-brunneis v. atro-fuscis 21-26 = 11-13.

*Hab.* ad ramulos emortuos *Citri* sp. in insula Salomonis Boka Oceanicæ (L. KÄRNBACH).

3. **Hysterium Capparidis** B. et C. in Grev. vol. 22, p. 12. 2384

*Hab.* in foliis *Capparidis jamaicensis* in insula Cuba — Perithecia hypophylla, angusta, prominula, nigra, brunneo-pulverulenta; asci cylindræi; sporidia 9-11-septata, brunnea, 36-40 6-7

**TRYBLIDIELLA** Sacc. — Syll. II, p. 757, IX, p. 1110.

1. **Tryblidiella pygmæa** E. et E. New Fung. Proceed. Acad. N. Sc. 2385  
Philad. 451 et Journ. of Myc. VII, p. 12.

*Hab.* in ligno emortuo, Ohio Amer. bor. (MORGAN). — Perithecia acute ellipsoidea, nigra, 0,5-0,7 mm. long.; asci 60-6 12-15; sporidia 3-4-septata, hyalina. dein brunnea. 20 6 7

**RHYTIDHYSTERIUM** Speg. — Syll. II, p. 759, IX p. 1111

1. **Rhytidhysterium Prosopidis** Peck 46 Rep. p. 39. 2386

*Hab.* in ramis emortuis *Prosopidis juliforæ*, Texas Amer. bor. (UNDERWOOD). — Perithecia subelliptica v. trigona, nigra, labiis crenulato-costatis; asci 180-200 = 11-12; sporidia triseptata, 20-30 = 9-10. fusca.

### Sect. 5. Hyalophragmiæ.

**GLONIELLA** Sacc. — Syll. II, p. 765, IX, p. 1112.

1. **Gloniella ambigua** Karst. Symb. Myc. Fam. XXX, p. 73.

*Hab.* in ligno vetusto pineo. Mustiala Fennicæ. — Perithecia 2387

ovalia, leviuscula, atra 0,5 mm. longa; asci 75-85 × 12-14; sporidia 27-34 = 6, constricta-3-septata, subhyalina.

2. **Gloniella pluriseptata** Karst. et Malbr. in Le Bret. et Niel Champ. 2388  
Norm. V Liste p. 155, fig. 3.

*Hab.* in caulibus siccis *Epilobii hirsuti*, pr. Rouen Galliæ. (LETENDRE). — Perithecia subellipsoidea, atra, levia; asci 120 11-12; sporidia 35-40 = 6, hyalina, 7-10-septata

### Sect. 6. *Phyiodictyæ*.

**HYSTEROGRAPHIUM** Corda. — Syll. II, p. 776, IX, p. 1119.

1. **Hysterographium kansense** E. et E. New West-Amer. Fung. p. 22 2389  
in *Erythea* Vol. II, 1894.

*Hab.* in cortice *Quercus macrocarpæ*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia oblonga 1-1,2 × 0,5 mm. nigra; asci 80-110 = 12-14; sporidia 7-9-septata et muriformia, 25-30 = 8-10, brunnea.

2. **Hysterographium Fraxini** (Pers.) De Not. — Syll. II, p. 776. — \*H. 2390  
*minutulum* Sacc. F. Abyss. p. 7. — Peritheciis sparsis, ovatis, minutis, vix 0,5 mm. longis; ascis 150-180 × 18; sporidiis oblongo-fusoideis, utrinque acutiusculis, 33-40 = 15, 7-9-septato-muriformibus. fuligineo-olivaceis.

### Sect. 7. *Scolecosporæ*

**HYPODERMA** DC. — Syll. II, p. 784, II, p. 1123.

1. **Hypoderma tunicatum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 347. 2391

*Hab.* in ramis emortuis *Arctostaphyli nevadensis*, Washington Amer. bor. (SUKSDORF). — Perithecia oblongo-lanceolata, 1-3 = 0,7-1 mm. atro-brunnea; asci 150-200 = 18-20; sporidia oblongo-elliptica, 3-septata, 20 = 3,5-4. « Ubi sporidia genuine 3-septata, species atypica videtur ».

2. **Hypoderma Cassandræ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 347. 2392

*Hab.* in ramis emortuis *Cassandræ caliculatæ*, Michigan Amer. bor. (JOHNSON). — Perithecia elliptico-oblonga, 1-1,5 = 0,5-0,7 mm., atra; asci 45-60 = 10-12; sporidia oblonga, 10-16 = 4-6, hyalina, continua.

3. **Hypoderma pinicola** Brunch. Nogle norske etc., Zeitschr. für Pa. 2393  
ras. 1894, p. 242.

*Hab.* in foliis *Pini silvestris* in silvis Norvegiæ. — Perithecia in series 1,2-10 mm. longas disposita; asci 8-spori; sporidia clavata, strato mucoso crasso obvoluta. — « An *Hypodermellæ* spec.? ».

4. **Hypoderma Aceris** P. Henn. et Lindau Hedw. 1893, p. 223, t. VIII, 2394 fig. 1.

*Hab.* in foliis *Aceris javanici*, Java. — Perithecia epiphylla, gregaria, circulariter disposita, pulvinata, elliptica, raro confluentia, nigra nitida, rima longit. dehiscentia; asci 60-100 = 14-20; sporidia clavata, hyalino-fuscidula 21-25 = 6-8. — « An *Hypodermellæ* species? ».

**LOPHODERMIIUM** Chev. — Syll. II, p. 791, IX, p. 1124.

1. **Lophodermium Sabinæ** Fautr. Rev. mycol. 1891, p. 169. 2395

*Hab.* in foliis *Juniperi Sabinæ*, Côte-d'Or Galliæ. — Perithecia epiphylla, elliptica, applanata, striata; asci fusoidei, 60 = 8; sporidia filiformia, utrinque acuta, pluriguttulata, 35-42 = 1.

2. **Lophodermium tumidulum** Sacc. Bomm. Rouss. Contr. Myc. Belg. 2396 V, p. 240.

*Hab.* in foliis emortuis *Scirpi cæspitosi*, Westmalle Belgii. — Perithecia tumidula, nigra, late aperta, disco flavo-virentia; asci 160-180 = 15; sporidia filiformia, chlorina, asci longitudine.

3. **Lophodermium velatum** Berk. in Grev. Vol. 22, p. 15. 2397

*Hab.* in culmis *Festucæ*, in insula Madera. — Perithecia applanata, nigricantia, 5 mm. long., parallele seriata; asci crasse cylindranei; sporidia 75-80 = 1,5, contorta, hyalina.

## DISCOMYCETEÆ FR. Syll. VIII p. 3, X p. 1.

### Fam. 1. Helvellaceæ Sw.

**MORCHELLA** Dill. — Syll. VIII, p. 8, X, p. 1.

1. *Morchella olivea* Quéf. Champ. Jura Suppl. XVIII, pag. 2, t. II, 2398  
f. 7 (*Morilla*).

*Hab.* ad terram calcaream lithanthraci mixtam, Jura. — Ascoma 3-6 cm. long., cremeo-olivaceum, costis viridi-olivaceis; sporidia 22-24  $\mu$ . long., hyalina.

2. *Morchella deliciosa* Fr. — Syll. VIII, p. 10. — var. *incarnata* Quéf. 2399  
Champ. Jura Suppl. XVIII, p. 2, *M. crispa* Krombh, t. V, f. 25-26.

*Hab.* gregatim in pascuis montanis, Jura. — Ascoma pallide incarnatum, costis tomentosus; sporidia 22  $\mu$ . long., hyalina.

**HELVELLA** Linn. — Syll. VIII, p. 17.

1. *Helvella sulcata* Afz. — Syll. VIII, p. 20. — var. *cinerea* Bres. F. 2400  
Trid. II, p. 41; t. 147, f. 1.

*Hab.* in nemoribus pr. Trento. — Ascomata griseo-cinerea, ceterum ut in typo.

2. *Helvella Fargesii* Patouill. Journ. de Bot. 1893, p. 344. 2401

*Hab.* ad terram in Thibet (FARGES). — Ascoma fusco-brunneum 1,5-2,5 cm. diam.; stipite 1-4 cm. long.; asci 160-200  $\approx$  16; sporidia 16-18  $\approx$  10-13. Habitus *H. alaticæ*, sed stipes villosus *H. atræ*.

3. *Helvella Engleriana* Henn. Fung. novoguin. II, p. 40. — Ascomate 2402  
libero, planiusculo, repando dein lobato, undulato, plicato, levi, margine reflexo, incarnato (rufo-brunneo in alcohol), usque ad 2 mm. alt. 2-4 mm. lat.; stipite erecto, fistuloso, striato v. sulcato-costato, tomentosulo, pallido usque ad 2 mm. alt. 1 mm. cr., ad basim incrassato; ascis clavatis, brunneolo-hyalinescentibus, obtusis, octosporis 40-63  $\approx$  5-8; sporidiis monostichis ellipsoideis v. ovoideis, hyalinis, flavescentibus, 5-6  $\approx$  3-4; paraphysibus linearibus apice vix clavatis, interdum bifurcatis 1-2  $\mu$ . cr.



*Hab.* in solo argilloso, Nova Zelandia. — Habitus *H. Ehippii* v. *H. Monachellæ*.

4. **Helvella alpestris** Boud. Bull. Soc. Myc. 1895, p. 28, t. II, fig. II. 2403

*Hab.* ad terram in pratis alpinis, Grand St. Bernard. — Ascomata stipitata, 1,5 cm. alt, tota atra margine albicante, stipite quoque atro; asci 300  $\approx$  16-20; sporidia 22-25  $\approx$  14-15, hyalina 1-guttata.

**MITRULA** Fr. — Syll. VIII, p. 32, X, p. 1.

1. **Mitrula bicolor** Pat. Journ. de Bot. 1893, p. 344. 2404

*Hab.* ad terram in Thibet (FARGES). — Clavula 4 mm. lat., 2 cm. long., compressa, brunnea; stipite 2 mm. cr., canaliculato, fusco; asci 110-120  $\approx$  12-15; sporidia 10-12  $\approx$  6, continua, hyalina.

2. **Mitrula Rehmii** Bres. F. Trid. II, p. 41, t. 147, f. 2. 2405

*Hab.* in silvis coniferis Tridentinis in Hypno Schreberi parasitica. — Ascoma morchelloideum 3,5-4,5 mm. alt. et 3 mm. cr., carneo-fulvum; stipite albo-flavo, 2-3 cm., long.; asci 70-80  $\approx$  6-8; sporidia 8-13  $\approx$  2,5-3, hyalina, demum 1-sentata. *M. muscicolæ* proxima.

**MICROGLOSSUM** Sacc. — Syll. VIII, p. 39, X, p. 2.

1. **Microglossum arenarium** Rostr. in Beihefte Bot. Centralbl. 1893, 2406 pag. 3.

*Hab.* in arenosis Daniæ. — Ascoma 2-4 cm. alt., 0,5-2 cm. cr. clavatum, nigrum, stipite olivaceo; asci 100  $\approx$  12-13; sporidia continua, hyalina, 25-30  $\approx$  4-6, guttulata; paraphyses brunneæ.

**CUDONIELLA** Sacc. — Syll. VIII, p. 41.

1. **Cudoniella fructigena** Rostr. Till. Grönl. Svamp. p. 605. 2407

*Hab.* in fructibus Archangelicæ officinalis in Groenlandia. — Ascoma hemisphæricum, ochraceum, 1 mm. diam., stipite 1 cm. alt. 0,5 mm. cr. albo; asci 200-220  $\approx$  6-7; sporidia 25-45  $\approx$  5, 1-3-septata, hyalina.

**LEPTOGLOSSUM** Cooke. — Syll. VIII, p. 47.

1. **Leptoglossum littorale** Rostr. in Beihefte Bot. Centralbl. 1893, p. 3. 2408

*Hab.* in littoribus arenosis Daniæ. — Ascoma 0,5-1,5 cm. alt., 0,2-0,5 cm. cr. clavatum, nigrum; asci 100-120  $\approx$  16-18; sporidia 50-60  $\approx$  5, hyalina, 1-5-(sæpius 3-) locularia; paraphyses brunneæ.

**VIBRISSEA** Fr. — Syll. VIII, p. 51.

1. **Vibrissea truncorum** Fr. — Syll. VIII, p. 51. — var. *albipes* Peck 2409  
44 Rep. p. 37.

*Hab.* in montibus Adirondack Amer. bor. — Stipes brevis, crassus, albus, cetera speciei.

*Fam.* 2. Pezizaceæ Fr.

*Sect.* 1. Hyalosporæ.

**GEOPYXIS** Pers. — Syll. VIII, p. 63, X, p. 3.

1. **Geopyxis Bloxami** Massee, Grev. XXII, 98. 2410

*Hab.* ad terram, Oxford Britannicæ (BAXTER). — Ascoma 0,7-1,5 cm. lat., hemisphæricum, stipite 0,5-1 cm. long.; asci cylindrici; sporidia 34-38 = 8-9. Affinis *G. coccineæ* sed glabra et diverse colorata.

2. **Geopyxis Hicksii** Peck 46 Rep. p. 38. 2411

*Hab.* ad terram, Michigan Amer. bor. (HICKS). — Ascoma infundibuliforme, brunneum, 12 mm. lat.; stipes 16-24 mm. long.; asci 150-200 = 12; sporidia 12-15 = 7-10.

**PEZIZA** Dill. — Syll. VIII, p. 73, X, p. 3.

1. **Peziza infuscata** QuéL. Champ. Jura Suppl. XVIII, p. 2, t. II, f. 6. 2412

*Hab.* ad terram ustam, pr. Marseille, Nizza, Verdun Gallicæ. — Ascomata cupularia, glabra, alba vel citrino-tincta, disco læte brunneo; sporidia ellipsoidea 12-18  $\mu$ . long., verruculosa, 2-guttata.

2. **Peziza elachroa** Berk. et Curt. in Cooke Mycogr. p. 160, f. 274, 2413  
(sub nom. *olivascens*).

*Hab.* ad terram inter folia in ins. Cuba. — Ascoma pallidolivaceum, 6-7 mm. lat.; sporidia 18 = 8.

3. **Peziza chrysopela** Cooke Mycogr. p. 156, fig. 266. 2414

*Hab.* ad terram in Carolina inf. Amer. bor. — Ascoma aurantio-flavum 12-14 mm. lat., extus pallidum; sporidia 12 = 6.

4. **Peziza edulis** Speg. Fl. Guar. nonn. n. 132, p. 46. 2415

*Hab.* ad terram inter folia putrida, Guarapi Amer. austr. — Ascoma applanatum, aurantium, 2-5 cm. diam.; asci 200-220 = 15-16; sporidia 18-34 = 12-13, hyalina; species edulis.

5. **Peziza lætissima** Karst. in Hedw. 1891, p. 298. 2416

*Hab.* ad folia putrida et humum in hortis, Mustiala Fennicæ. — Ascoma cupulato-explanatum, miniato-aurantiacum, 3 cm. lat.; asci 285 = 15; sporidia 18-21 = 12, subscabra.

6. **Peziza Dudleyi** Peck 47 Rep. p. 23. 2417  
*Hab.* ad terram et fragmenta lignea, Ithaca Amer. bor. (DADLEY).  
 — Ascoma 5 cm. lat., læte flavum vel croceum; asci cylindrici; sporidia 25-30 = 12-15. *Pez. aurantiæ* et *P. inæquali* proxima.
7. **Peziza Braunii** P. Henn. F. Afr. II, p. 8. 2418  
*Hab.* ad ligna, Madagascar Africae (J. BRAUN). — Ascomata extus flavescientia, 2 cm. lat., disco vinoso; asci 250-315 = 10-15; sporidia subglobosa vel elipsoidea, 8-11 = 8-10, subhyalina.
8. **Peziza rivularis** Clem. Bot. Surv. Nebr. Rep. III, 1893, p. 8. 2419  
*Hab.* ad ramos aqua immersos, Meadville Nebraska Amer. bor.  
 — Ascoma explanato-concavum, intus umbrinum; asci 250 = 20; sporidia 25-26 = 15-16, 2-guttata.
9. **Peziza Büttneri** P. Henn. F. Afr. II, p. 9. 2420  
*Hab.* ad ligna, Togo Africae (BÜTTNER). — Ascoma concavum, rufo-brunneum, extus pallidum, 2 cm. diam.; asci 200-280 = 15-18; sporidia 22-26 = 12-15, 2-guttata, levia, hyalina.
10. **Peziza rubrans** QuéL. Rev. Myc. 1892, p. 65, t. 126, f. 5. 2421  
*Hab.* in ramis emortuis Alni (?), pr. Bordeaux Galliae. — Ascoma subhemisphaericum, 1 cm. lat., album dein incarnatum, disco rubro, nitenti; sporidia elliptico-lanceolata, 2-3-guttata.
11. **Peziza crenata** Rostr. Oest-Grönl. Svamp. p. 13. 2422  
*Hab.* ad terram Groenlandiae. — Ascomata 5-7 mm. diam., cinerea, furfuracea, disco ochraceo, margine crenato; asci 220 = 12-14; sporidia 18-20 = 8-10, hyalina.
12. **Peziza deerrata** Karst. Monogr. p. 119, Hedw. 1891, p. 299. Huc 2423  
 spectant *Humaria deerrata* (Karst.) Sacc. Syll. VIII, p. 140, et *H. Schröteri* Cooke, Syll. VIII, p. 141.
13. **Peziza myceticola** Berk. et Curt. U. S. Fungi (in fungis putridis) et **Peziza porinata** Cooke (in Polyporis putrescentibus), mihi 2424  
 ignotæ, teste Cooke Grev. XX, p. 15, sunt natura *Dacryomycetis*.

**OTIDEA** Pers. — Syll. VIII, p. 94, X, p. 4.

1. **Otidea? Sparassis** QuéL. Rev. Myc. 1892, p. 65, t. 126, f. 4. 2425  
*Hab.* ad humum in silvis Galliae. — Ascomata sparassioidec-  
 incisa, laciniata, cremeo-grisea; sporidia ellipsoidea, hyalina, 1-gut-  
 tulata. Dubia species.
2. **Otidea neglecta** Masee Grev. XXII, p. 66, *Otidea Auricula* Rehm, 2426  
 Sacc. Syll. VIII, p. 95, non Cooke — Secundum Masee l. c. hæc  
 differt a genuina *Otidea Auricula* (Schäff.) Masse l. c. excipulo  
 hyphis septatis intertextis extus parallele seriatis discoque brunneo,

dum in hac postrema discus est e carneo flavido-brunneus et excipulum parenchymaticum cellulis majusculis plerumque elongato-hexagonis.

*Hab.* utraque species ad terram in Britannia, Gallia, Germania, Helvetia.

**DISCINA** Fr. — Syll. VIII, p. 99, X, p. 4.

1. **Discina pululahuana** Pat. Bull. Soc. Myc. 1893, p. 145. 2427

*Hab.* ad terram, ad craterem Pululahua Æquatoriæ. — Ascomata cupulata, 10 mm. lat., ochraceo-pallida, brevissime stipitata, disco carneo-ochraceo; asci 500  $\approx$  15; sporidia 35-42  $\approx$  12-16, 2-pluriguttulata, utrinque obtuse mucronata.

2. **Discina mongolica** Karst. Hedw. 1892, p. 39. 2428

*Hab.* ad terram arenosam, in Mongolia. — Ascomata patellata, fuliginosa, extus pallidiora, 13 mm. lat.; asci tereti-clavati, 13-15  $\mu$ . cr.; sporidia 22-26  $\approx$  11-13, levia.

3. **Discina maturescens** (Boud.) Sacc. *Disciotis* Boud. Bull. Soc. Myc. 1891, p. 214, t. XV, f. 1. 2429

*Hab.* ad terram argillosam, prope Nizza (BARLA). — Ascomata cupulata, disco badio-fusco; asci 400  $\approx$  20-23; sporidia 22-25  $\approx$  12-13, subhyalina, levia.

4. **Discina corticalis** Karst. in Hedw. 1891, p. 301 (*Discinella*). 2430

*Hab.* ad truncos corticatos *Lonicerae tataricæ*, in horto Mustiala Fennicæ. — Ascomata plano-concava, pallida, disco rufo-pallido 3 mm. lat.; asci 135  $\approx$  12; sporidia 12-13  $\approx$  8. *Discinella* Karst. l. c. a typo *Discinæ* differt in primis ascomatibus minoribus.

**GALACTINIA** Cooke. — Syll. VIII, p. 106.

1. **Galactinia Michellii** Boud. Bull. Soc. Myc. 1891, p. 215, t. XV, fig. II. 2431

*Hab.* in argillosis silvarum, pr. Parisios. — Ascomata lactescentia, cupularia, læte fulva, 3-4 cm. lat., disco rubro-purpureo vel rubro-fulvo; asci 240-280  $\approx$  15; sporidia 14-15  $\approx$  7-8, hyalino-fulvida, 2-guttata, verruculosa.

**PYRONEMA** Carus — Syll. VIII, p. 107.

1. **Pyronema lætissimum** Schröt. Pilz. Krypt. Fl. Schles. III, p. 34. 2432

*Hab.* ad terram, in Silesia. — Ascomata 1-1,5 mm. lat., læte aurantio-rubra, subiculo albo insidentia; asci 220-250  $\approx$  11-13; sporidia 20-22  $\approx$  9-10, levia.

2. **Pyronema tapesioides** Rehm Disc. p. 963. 2433

*Hab.* in stercore humano prope Berlin Germaniæ et in terra stercoreata Italiæ. — Flavum, in sicco aurantio-rubrum, 0,3-1 mm. lat., mycelio effuso, ramoso, hyalino insidens; asci 180-200  $\times$  12; sporidia 14-17  $\times$  7-8, levia, hyalina.

3. **Pyronema collemoides** Rehm Disc. p. 966. 2434

*Hab.* in arenosis montanis Saxonie. — Aurantio-rubrum, 1-4 mm. lat., mycelio hyalino, denso insidens; asci 180-200  $\times$  10-12; sporidia 18-20  $\times$  9.

4. **Pyronema Wagnerianum** Rehm Disc. p. 967. 2435

*Hab.* in fimo Capreolorum et Giraffæ in Germania. — Flavobrunneum vel atro rubescens, 1-4 mm. lat., mycelio hyalino insidens; asci 100-150  $\times$  10-12; sporidia 12-15  $\times$  6-7, levia, hyalina.

**BARLÆA** Sacc. — Syll. VIII, p. 111, X, p. 5.

1. **Barlæa lacunosa** Ell. et Ev. Proc. Acad. Phil. 1894, p. 347. 2436

*Hab.* ad cortices, Newfoundland seu Terranova Amer. bor. — Ascomata aurantiaca 0,5-1,5 cm. lat., disco albo-flavido, profunde lacunoso; asci 70-90  $\mu$ . long. p. sp.; sporidia globosa, hyalina, 8-10  $\mu$ . diam.

2. **Barlæa anthracina** Cooke Mycogr. p. 235, fig. 396, *Plicaria carbonaria* Fuckel Symb. myc. p. 326, fig. 35. 2437

*Hab.* ad carbones udos in silvis Germaniæ. — Ascoma fuscum 2-4 mm. lat.; sporidia 12  $\mu$ . diam., verruculosis ex hyalino fuscidula. Contextus fere bulgariaceus.

**HUMARIA** Fr. — Syll. VIII, p. 118, X, p. 4.

1. **Humaria flavula** Quélet. Champ. Jura Suppl. XVIII, p. 1, t. II, f. 3. 2438

*Hab.* ad terram argillosam in silvis Jura. — Ascomata discoideo-hemisphærica 1-2 mm. diam., straminea, disco flavo; sporidia 10-12  $\mu$ . long., ellipsoidea, verruculosa.

2. **Humaria flavo-rubens** Rehm Disc. p. 960. 2439

*Hab.* ad terram udam umbrosam prope Berlin. — Flavobrunneum dein brunneum 2-4 mm. lat.; asci 180-200  $\times$  9-10; sporidia 15-17  $\times$  7-8, hyalina, rugulosa.

3. **Humaria subhepatica** Rehm Disc. p. 948. 2440

*Hab.* ad terram prope Berlin (Sydow). — Viridibrunnea, 2-4 mm. lat. disco aurantiaco; asci 150-200  $\times$  20; sporidia 18-20  $\times$  9-10, hyalina, levia.

4. **Humaria leucolomoides** Rehm Disc. p. 933. 2441

*Hab.* ad terram silvaticam in Germaniæ pluribus locis. — Aurantiaco-rubra, 10-15 mm. diam.; asci 150-200  $\approx$  15-18; sporidia 18-21  $\approx$  10-12, hyalina.

5. **Humaria granulosa** Schum. Saell. II, p. 415, Cooke Myc. p. 232, f. 391. 2442

*Hab.* ad terram in silvis Galliæ et Scandinaviæ. — Ascoma umbonatum extus pallidius, 10-12 mm. diam.; sporidia 16-20  $\approx$  8-10. — var. **Boudieri** Cooke l. c. fig. 390. Ascoma viridi-flavum 1-2 cm. lat.; sporidia 15-20  $\approx$  8. Ad terram hortorum in Gallia.

6. **Humaria oryzetorum** Pat. Bull. Soc. Myc. 1892, p. 50. 2443

*Hab.* ad terram inter algas, Tonkin (Bon). — Ascomata cupulata. Labra, sessilia, 1-2 mm. lat., disco fusco-rubro; asci 210  $\approx$  15; sporidia 18-20  $\approx$  10, hyalina, levia.

7. **Humaria Potonini** Karst. Hedw. 1892, p. 39. 2444

*Hab.* ad terram arenosam, in Mongolia (Potonin). — Ascomata subhemisphærica brunneo-setosa, 4-7 mm. lat., disco carneo-subaurantiaco; asci 16-22  $\mu$ . cr.; sporidia 20-21  $\approx$  15.

8. **Humaria groënlandica** Rostr. Oest-Grönl. Svamp. p. 13. 2445

*Hab.* ad terram Groenlandiæ. — Ascomata 1,5-2,5 mm. diam., glauco-nigricantia; asci 250  $\approx$  20; sporidia 20-22  $\approx$  15, hyalina, intus brunnea. « An *Phæopezia*? ».

9. **Humaria pictilis** Quél. Champ. Jura Suppl. XVIII, p. 2, t. II, f. 4. 2446

*Hab.* in stercore humano algis obducto, Lyon Galliæ. — Ascomata hemisphærico-discoidea, 2 mm. diam., carneo-lateritia, olivaceo-marginata, disco roseo; sporidia ellipsoidea 12-14  $\mu$ . long. Forte var. *H. merdaricæ*.

10. **Humaria Elaphorum** Rehm Disc. p. 945. 2447

*Hab.* in fimo Elaphorum in Saxonia (Wagner). — Læta flava, 2-4 mm. lat.; asci 150-180  $\approx$  9-10; sporidia 12-15  $\approx$  6-7, hyalina, levia.

11. **Humaria aquatica** (Lam. et DC.) Sacc. *Peziza* Lam. et DC. Fl. fr. II, p. 76, Wettstein Ueb. zwei Ascom. p. 169. 2448

*Hab.* in aquæductibus, in Gallia, Austria et Helvetia. — Ascomata 2-3 mm. diam., e globoso applanata, carnea; asci 340-350  $\approx$  15-17; sporidia 18-20  $\approx$  10-12, hyalina, levia.

12. **Humaria Saccardoï** Cav. Fung. Long. Exs. III, n. 110 et Bot. Centralbl. 1894, I, p. 71. 2449

*Hab.* in ligno carioso putri in horto botanico, Pavia Ital. bor. — Ascomata ex globoso explanata, griseo-violacea, pruinosa, disco sordide violaceo, 5-15 mm. diam.; asci 170-200  $\approx$  8-10; sporidia 18-22  $\approx$  5-6, fusoida, plasmate interdum contracto.

13. *Humaria novo-zelandica* Henn. Fung. novoguin. II, pag. 39. — 2450

Gregaria; ascomatibus carnosio-ceraceis, brevissime stipitatis, extus ochraceo-tomentosis, disco explanato, fusco-brunneis; stipite brevissimo, crasso, concolori; ascis clavatis, octosporis, hyalinis 140-160  $\approx$  16-19; sporidiis ellipsoideis, hyalinis, monostichis 16-20  $\approx$  8-9; paraphysibus apice incrassatis, clavato-filiformibus, fuscidulis.

*Hab.* in caulibus putridis, Nova Zelandia. — Discus 2-3 mm. diam.; stipes vix 0,5 mm. long., 0,5 mm. cr.

14. *Humaria Euphorbiæ* P. Henn. F. Afr. I, p. 369. 2451

*Hab.* in ramis emortuis *Euphorbiæ Thii* in Erythræa (SCHWEINFURTH). — Ascomata cupulato-explanata, incarnata, 2-9 mm. diam., disco aurantio-miniato; asci 21-40  $\approx$  3-4; sporidia 3-5  $\times$  2-2,5, hyalina, levia.

15. *Humaria Zukalii* Rehm Disc. p. 946. 2452

*Hab.* in charta crassiore, extracto carneo imbuta, Wien Austriæ (ZUKAL). — Rubens vel brunneo-rubens, 2-4 mm. lat.; asci 50  $\approx$  8 p. sp.; sporidia ellipsoidea, hyalina, continua.

**PSILOPEZIA** Berk. — Syll. VIII, p. 152.1. *Psilopezia trachyspora* E. et E. New West Amer. Fung. in Ery- 2453  
thea p. 200.

*Hab.* in lignis putridis, Washington Amer. bor. (PARKER). — Glauco-brunnea, applanata, 0,5-1,5 cm. diam., margine rufo-brunneo; asci 200  $\approx$  18-20; sporidia 18-20  $\approx$  12-14, verrucosa, hyalina.

**SARCOSCYPHA** Fr. ex p. — Syll. VIII, p. 153.1. *Sarcoscypha tenuispora* Cooke et Masee in Grev. vol. 21, p. 121. 2454

*Hab.* ad fragmenta lignea et folia putrida, in Britannia. — Ascomata stipitata 2-3 cm. alt., 2,5 cm. diam., alba, tomentosa, disco pallido; asci cylindrici; sporidia 16-20  $\approx$  4-5, extus granulosa.

**TRICHOSCYPHA** Cooke. — Syll. VIII, p. 161.1. *Trichoscypha Engleriana* P. Henn. F. Afric. I, p. 363 (*Pilocratera*). 2455

*Hab.* in ramis emortuis, Kamerum Africae. — Ascomata hemisphærico-turbinata, flavo-pruinosa, setosa, 6-20 mm. diam., disco flavo-aurantiaco; stipes 5-20 mm. long.; asci 270-320  $\approx$  17-20; sporidia 27-30  $\approx$  14-17, flavescenti-hyalina, levia.

**LACHNEA** Fr. emend. — Syll. VIII, p. 166, X, p. 5.1. *Lachnea tomentosa* (Karst.) Sacc. *Humaria* (*Sepultaria*) *tomen-* 2456  
*tosa* Karst. Hedw. 1892, p. 293.

*Hab.* ad terram, in insula Suomen Fennia. — Ascomata subglobosa, fusco-tomentosa, 1-2 cm. lat., disco incarnato; asci 165 = 18; sporidia 22-25 = 11-15, hyalina.

2. **Lachnea nicæensis** (Boud.) Sacc., *Sepullaria nicæensis* Boud. 2457  
Bull. Soc. Myc. 1891, p. 216, t. 15, f. 3.

*Hab.* ad terram arenosam, muscosam, pr. Nizza (BARLA). — Ascomata 2-2,5 cm. lat., fulvo-lanuginosa, disco albido-griseo; asci 350 = 22-25; sporidia 30-35 = 16-18.

3. **Lachnea amphidoxa** Rehm in Disc. p. 1048 *Humaria hirtella* f. *minor* Rehm in Hedw. 1882, p. 2. 2458

*Hab.* ad terram, in Helvetia et Germania. — Ascomata 1-3 mm. lat., pilosa, brunneola, disco pallido; asci 200-220 = 12-15; sporidia 15-20 = 8-10, hyalina, levia.

4. **Lachnea solisequia** Quél. Champ. Jura Suppl. XVIII, p. 2, t. II, f. 5. 2459

*Hab.* ad terram carboni mixtam in silvis, Jura. — Ascomata 5-15 mm. diam., straminea, fulvo-pilosa, disco croceo-aurantio; sporidia 12-15  $\mu$ . longa, bi-guttata, hyalina, levia.

5. **Lachnea subatra** Rehm Disc. p. 1045. 2460

*Hab.* ad terram arenosam inter muscos, in Germania. — Ascomata 0,3-3 mm. lat., breviter pilosa, brunnea, disco atrobrunnea; asci 180-200 = 12-15; sporidia 15-18 = 9-10, hyalina, levia.

6. **Lachnea brunneola** Rehm Disc. p. 1048. 2461

*Hab.* in areis ustis, in Saxonia. — Ascomata 2-5 mm. lat., setosa, castanea; asci 180-200 = 15; sporidia 25-27 = 9-10, continua, hyalina.

7. **Lachnea leucothecioides** Rehm Disc. p. 1043. 2462

*Hab.* in areis ustis, in Saxonia. — Ascomata subglobosa, 0-5-1 mm. lat., parce pilosa, brunnea, disco pallido; asci 180-200 = 10-12; sporidia 12 = 9, levia, hyalina.

8. **Lachnea albo-badia** (Saut.) Rehm Disc. p. 1050, *Peziza* Saut. Pilze 2463  
Salzb. II, p. 64.

*Hab.* ad terram udam in Salzburg. — Ascomata brunneo-tomentosa, disco albido; asci 210-280 = 19-26; sporidia 23-26 = 14-17, hyalina, levia.

9. **Lachnea ampezzana** Rehm Disc. p. 1043. 2464

*Hab.* ad terram calcaream, Ampezzo Ital. bor. — Ascomata 2-5 mm. lat., brunneo-rubra, pilosa, disco roseo-griseo; asci 180-250 = 12-15; sporidia 18-21 = 9-10, hyalina, levia.

- 10 **Lachnea Lojkæana** Rehm Disc. p. 1045, nec *Neolliella luteo-* 2465  
*pallens* (Cooke) Sacc., teste Rehm.