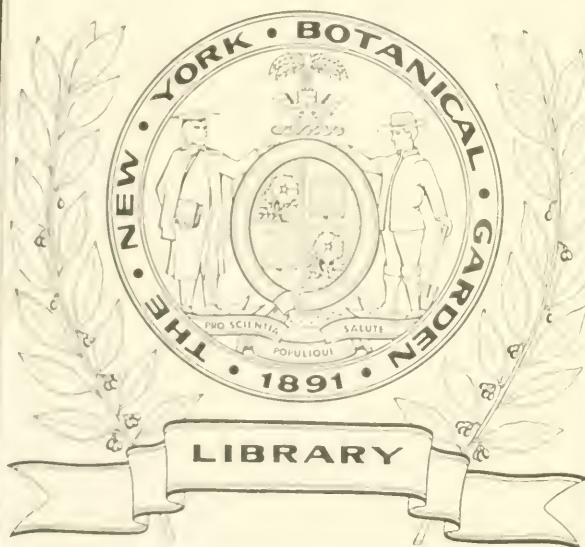




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ICONES  
FUNGORUM

OMNIUM HUCUSQUE COGNITORUM

AD USUM

SYLLOGES SACCARDIANAE

ADCOMMODATAE

AUCTORE

**A. N. BERLESE**

(Opus praemio « Desmazières » Gallici Scientiarum Instituti coronatum)

VOL. I.

PYRENOMYCETES

(Lophiostomaceae et Sphaeriaceae Phaeo - et Hyalophragniae)



ABELLINI MDCCXCIV

SUMPTIBUS AUCTORIS

TYPIS EDUARDI PERGOLA



PROF. P. A. SACCARDO

SYLLOGES AUCTORI

ET

MAGISTRO MEO

GRATISSIMI ANIMI

ATQUE VENERATIONIS

TESTIMONIUM

A. N. BERLESE

*Abellini - Martio MDCCCXCV.*



LVI

## CHARACTERUM FAMILIARUM ET GENERUM ILLUSTRATIO

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### TABULA 1.

**LOPHIOSTOMACEAE** (fig. 1) *a-m* perithecia integra vel longitudinaliter secta  
valde aucta; *n* caulis perithecia *Lophiostomatis insidiosi* gerens: *o* cortex  
perithecia *Lophiost. excipuliformis* gerens (omnes gradus evolutionis  
ostioli delinenti sunt).

**Schizostoma** (fig. 2) Ascus et sporidia specierum variarum.

**Lophiosphaera** (fig. 3) » » » » »

### TABULA 2.

**Lophiotrema** (fig. 1) Ascus et sporidia specierum variarum.

**Lophiotricha** (fig. 2) Perithecium, ascus et sporidia.

**Lophiostoma** (fig. 3) Ascus et sporidia specierum nonnullarum.

**Lophidium** (fig. 4) » » » » »

**Lophidiopsis** (fig. 5) Ascus et sporidia.

**Lophonema** (fig. 6) » » »

### TABULA 3.

**SPHAERIACEAE** 1 Sectio longitudinalis peritheciis haud rite evoluti.

2 Perithecium tectum longitudinaliter sectum.

3-4 Perithecia superficialia longitudinaliter secta (3 perith. rec-  
tum *Roselliae*; 4 id. obliquum *Pleurostoma*).

- 5 Peritheciū setosum (*Acanthostigma* etc.)  
 6       »      mycelio cinctum, ostiolo disformi (*Herpotrichia*).  
 7 Perithecia verticaliter evoluta, longitudinaliter secta (*Bombaria*).  
 8 Peritheciū radiatim sulcatum (*Stuartella*).  
 9 Peritheciū tuberculigerum (*Bertia*)  
 10     »      rhynchophorum tectum (*Rhynchostoma*).  
 11     »      »      superficiale (*Rhynchosphaeria* etc.).  
 12 Perithecia acervulata longitudinaliter secta (*Cneurbitaria* etc.).  
 13     »      tecta, linea stromatica circumscripta (*Diaporthe*).  
 14     »      valsoideo-acervulata, stromate immersa (*Valsa*, *Valaria* etc.)  
 15 Peritheciū ligno immersum, stromate clipeiformi tectum (*Clyposphaeria*, *Peltosph.*)  
 16 Peritheciū foliolum, stromate cinctum (*Hypospila*).  
 17 Perithecia ligno immersa, stromate effuso crustaceo tecta (*Eutypa* etc.)  
 18 Peritecia irregulariter in stromate pulvinato immersa (*Melogramma*).  
 19 Perithecia valsoideo-acervulata, crusta stromatica effusa tecta (*Cryptovalsa* etc.)  
 20 Perithecia stromate lato, repando immersa (*Numularia*).  
 21 Perithecia stromate crasso, pulvinato immersa (*Hypoxylon*).  
 22 Perithecia stromate discoideo, pedunculato immersa (*Poronia*).  
 23 Perithecia stromate clavato, simplici vel ramoso immersa (*Xylaria*).

## TABULA 4.

**Massaria** Fig. 1-2 rami fungiferi, 3 acervulus peritheciorum auctus; 4-6 perithecia longitudinaliter secta; 7-15 sporidia e speciebus variis; 16 ascus.

## TABULA 5.

**Leptosphaeria** fig. *a* folium, *b* caulis fungifera; *c-d* perithecia aucta; *e-g* perithecia longitudinaliter secta; *h* ascus; *i* sporidia specierum plerum.

## TABULA 6.

**Passeriniella** (fig. 1) *a* ramus fungifer; *b-c* perithecia longitudinaliter secta; *d* ascus; *e* sporidia.

**Chitonospora** (fig. 2) *a* perithecium longitudinaliter sectum; *b* ascus; *c* sporidia.

**Ceriospora** (fig. 3) *a* caulis fungifer; *b-c* perithecia longitudinaliter secta; *d* ascus; *e* sporidia.

## TABULA 7.

**Heptameria** (fig. 2) *a* caulis fungifer; *b-c* perithecia longitudinaliter secta; *d* ascus; *e* sporidium, *f* pars centralis sporidii amplius aucta.

**Rebentischia** (fig. 1) *a-b* perithecia longitudinaliter secta; *c* ascus; *d* sporidia.

**Leptosphaeriopsis** (fig. 3) *a* caulis fungifer; *b* perithecium sectum, *c* ascus, *d* sporidia.

## TABULA 8.

**Pocosphaeria** (fig. 1) *a* perithecia aucta; *b* perith. verticaliter sectum; *c* ascus, *d-e* sporidia.

**Clypeosphaeria** (fig. 2) *a* ramus fungifer, *b* perithecium auctum; *c* id. verticaliter sectum; *d-f* perithecia pluria verticaliter secta minus magisve aucta, *g* ascus; *e* sporidia.

**Chaetomastia** (fig. 2) *a* perithecia aucta; *b* perithecium verticaliter sectum; *c* ascus; *d-e* sporidia.

## TABULA 9.

**Chaetosphaeria** (fig. 1) *a* lignum fungiferum; *b* perithecium longitudinaliter sectum auctumque; *c* ascus; *d-e* sporidia.

**Ohleria** (fig. 2) *a* lignum fungiferum; *b* perithecia aucta; *c* peritheciis sectio longitudinalis; *d* ascus; *e* sporidia.

**Melanomma** (fig. 3) *a* lignum fungiferum; *b* perithecia aucta, *c-d* perithecia longitudinaliter secta; *e* ascus; *f* sporidia.

## TABULA 10.

**Caryospora** (fig. 1) *a* Putamen *Amygdali* peritheciis praeditum; *b* perithecium auctum; *c* perithecium longitudinaliter sectum; *d* ascus; *e* sporidium.

**Stuartella** (fig. 2) lignum perithecigerum; *a* peritheciū auctūm; *b* eiusdem sectio longitudinalis, *c* ascus; *d* sporidium.

**Rhynchosphaeria** (fig. 3) *a-b* ligna perithegigera; *c* perithecia aucta; *d-e* eorumdem sectiones longitudinales; *f* ascus; *g* sporidia.

#### TABULA 11.

**Sporormia** *a* fīmū perithēcīgerū; *b* sectiones longitudinales perithēcīorū; *c* ascus; *d* sporidīa specīerū variarū.

#### TABULA 12.

**Sporormiella**<sup>1</sup> (fig. 1) *a* fīmū perithēcīgerū; *b-c* sectiones longitudinales perithēcīorū minus ampliusve auctōrū; *d* ascus; *e* sporidium.

**Gibberidea** (fig. 2) *a* rānius fungīfer; *b* acervulus perithēcīorū auctūs; *c* ascus; *d* sporidīa; *e* acervuli magis aucti sectio longitudinalis.

**Kalmusia** (fig. 3) *a* peritheciū auctūm; *b* id. sectum; *c* ascī; *e* sporidīa.

#### TABULA 13.

**Pseudovalsa** *a* ramus fungīfer; *b* acervulus auctūs; *c* id. transverse sectum; *d* id. longitudinaliter sectum; *e* peritheciū magis auctūm longit. sectum; *f-g* ascī; *b* sporidīa specīerū variarū.

#### TABULA 14.

**Titania** (fig. 1) *a* lignum fungīserū; *b* acervulus auctūs longitudinaliterque sectus; *c* ascus.

**Thyridaria** (fig. 2) *a* ramus fungīfer; *b* acervulus auctūs; *c-d-e* sectiones longitudinales perithēcīorū; *f* ascus; *g* sporidīa.

<sup>1</sup> Specimina *Sporormiellae nigropurpureae*, sero habui, et in Iconibus suo loco inserere nequivi. Perithecia sunt subvalsoideo-acervulata  $\frac{1}{8}$  mm. d. globosa vel ovideo globosa, stromate plus minusve manifesto immersa, nigro-purpurascens; asci sunt longissime paraphysati, 100-125  $\approx$  10-12 sporidīa 16-20  $\approx$  4-5 metiuntur.

Speciem legit cl. Ellis in fīmo vaccino Newfield, in Am. bor. (Cfr. Ellis et Ev. North Amer. Pyren. p. 136).

## TABULA 15.

- Melogramma** (fig. 1) lignum fungiferum; *b-c* stromata peritheciæ aucta; *c-d-e* eadem longitudin; secta; *f* ascus; *g-h* sporidia.  
**Massarina** (fig. 2) *a* ramus fungifer; *b-d* perithecia longitudinaliter secta; *e* ascus; *f-i* sporidia.

## TABULA 16.

- Metasphaeria** (fig. 1) *a-b* ramus foliumque fungifera; *c-e* perithecia plus minusve aucta; *f* et *g* eadem longitudin. secta; *h* ostiolum penicillatum. *i* ascus; *h* sporidia.  
**Sphaerulina** (fig. 2) *a-b* caulis foliumque fungifera; *c* peritheciū sectum; *d* ascorum roseola; *e* ascus; *f* sporidia.

## TABULA 17.

- Ceriosporella** (fig. 1) *a* caulis fungifer, *b* perithecia longitudinaliter secta; *c* ascus; *d* sporidia.  
**Hypospila** (fig. 2) *a* folium fungiferum; *b* stroma peritheciæ auctum; *c* perithecia longitudinaliter secta; *d* ascus; *e* sporidia.  
**Melomastia** (fig. 3) *a* ramus fungifer; *b* perithecia aucta; *c-d* id logitud. secta; *e* asci; *f* sporidia.

## TABULA 18.

- Saccardoëlla** (fig. 1) *a* ramus fungifer; *b* peritheciū auctum; *c* id. sectum; *d* ascus; *e* asci apex; *f* sporidia.  
**Bombardia** (fig. 2) *a-b* ligna fungifera; *c-d* perithecia aucta; *e* id. secta; *f* ascus; *g* sporidia.

## TABULA 19.

- Lasiosphaeria** *a* lignum fungiferum; *b-d* perithecia cincta; *e-f* peritheciorum sectiones longitudinales; *g* setula magis aucta; *h* ascus; *i* sporidia specierum variarum.

## TABULA 20.

**Enchnosphaeria** (fig. 1) *a* ramus foliaque mycelio perithecitero aucta; *b* folium fungiferum; *c* perithecium auctum; *d* id. longitudin. sectum; *e* ascus; *f* sporidia.

**Acanthostigma** (fig. 2) *a* lignum fungiferum; *b* perithecium auctum; *c* setula amplius aucta; *d* perithecia longitudinaliter secta; *e* ascus; *f* sporidia.

**Herpotrichia** (fig. 3) *a* ramus fungifer; *b-c* perithecia aucta; *d* perithecii pars superior; *e* eadem secta; *f* ascus; *g* sporidia.

## TABULA 21.

**Zignoëlla** (fig. 1) *a* lignum fungiferum; *b* perithecia aucta; *c* eadem secta; *d* ascus; *e* sporidia.

**Winterella** (fig. 2) *a* lignum fungiferum; *b* perithecium longitud. sectum; *c* ascus; *d* sporidium.

**Ceratosphaeria** (fig. 3) *a* lignum fungiferum; *b* perithecia aucta; *c* perithec. longit. sectum; *d* ascus; *e* sporidia.

## TABULA 22.

**Cryptoderis** (fig. 1) *a* folium fungiferum; *b* perithecium longitudinaliter sectum; *c* ascus; *d* sporidia.

**Gnomoniopsis** (fig. 2) *a* ramus fungifer; *b* perithecium longitudinaliter sectum; *c* ascus; *d* sporidia.

**Calospora** *a* ramus fungifer; *b* acervulus peritheciorum longitudinaliter sectus; *c* ascus; *d* sporidia.



## PRAEFATIO

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Quantum in mycologicis studiis, post celeberrimi Friesii opera, profectum esset, ex eo paucis abhinc annis percipere licuit, quod omnes rerum mycologicarum peritissimi Viri magno studio flagrarunt libri alicuius possidendi, qui non aliter ac *SYSTEMA MYCOLOGICUM* (non iam harum doctrinarum optatis respondens) omne mycetum genus complectens, universam specierum copiam recte disposeret, eoque loco quamque collocaret, qui opportunissimus secundum taxonomicas leges videretur.

Itaque Doctor Saccardo, qui hoc arduum opus usque ab anno 1882 acerrime agressus est, non paucorum annorum opera ac studio, opus in sua *SYLLOGE FUNGORUM OMNIUM HUCUSQUE COGNITORUM* tandem Mycologis praebuit quod eam descriptionis rationem servans, qua *SYSTEMATIS MYCOLOGICI* auctor usus est, superius tamen facile evasit, cum ob novam dispositionem taxonomicam et majorem specierum collectarum numerum, tum ob eam quam auctor (*praesertim in fungis microscopicis*) micrographicam viam secutus est, quoque maxime mycologicae recentiores investigationes praestant vetustioribus. Qua de re jure ac merito, ad magnum specierum descriptarum numerum spectans idem Saccardo: « Hoc, inquit, affirmare audeo quod si intra paucos annos liber hujuscemodi adhuc defuerit mycographia tota in chaos dilabi maxime periclitaretur. » Nunc autem cum tali opere fruamur, affirmare omni asseveratione possumus magnos in hoc tanto tamque immenso mycologicorum campo factos esse progressus.

Mihi itaque visus est magnam laudem assecuturus fuisse, si quis ad hoc scientiae mycologicae quasi arduum quoddam monumentum persiciendum opibus omnibus nixus esset. Hac igitur opinione fretus non parvi momenti putavi vastam ac insignem SYLLOGEM SACCARDIANAM iis tabulis exornari, quae a studio tantum recto speciminum originem ducere viderentur. Quamquam autem sciebam opus aggredienti, quod SACCARDIANA SYLLOGE, quacum conjunctum esse deberet, indignum non esset, omnes quae descriptae sunt species delineandas fuisse, minime tamen dubitavi (non omnino majoribus fungis exceptis, quorum splendidissimae iconographiae non desunt) primas partes microscopicis tribuere, quos, ad iconographiam quod attineret, scirem esse neglectos. Quod si quaedam hujuscemodi insignia opera non desunt, tam pauci tamen prae ingente mycetum vi ii sunt qui iis illustrentur, ut in hoc iconographiae myco-microscipiae immenso atque obscuro campo tamquam lucida puncta nobis videantur.

Quare opus quod haec minima corpuscula illustraret eo utilius, immo magis necessarium dicere asim, futurum fuisse mihi visum est, si etiam eas species complexum esset quae, et brevi diagnosi a veteribus auctoribus descriptae neque micrometricis notationibus instructae, in incertis maximam partem collocantur.

Quibus rebus verba, quae in praefatione SACCARDIANAE SYLLOGES legimus, apertius planiusque explicantur « Contigisse potest quod species identica bis vel pluries variis nominibus exponatur. »

Cum igitur illud mihi persuasum esset opus hujuscemodi maximam utilitatem allaturum esse iis qui SYLLOGE, de qua sermo, fungerentur atque uicerentur, hoc omnibus viribus atque opibus aggressus sum. Cumque ad munus, quod suscepi, explendum species parum notae vel dubiae mihi in veteribus herbariis essent inquirendae, ad Praefectos Museorum, quibus tam praetiosae veteresque collectiones custodiuntur, me converterem oportuit ac necesse fuit. Praeterea quippe qui certe scirem opus meum maximisolummodo momenti futurum fuisse, si originalia specierum notarum exemplaria illustrasset, Mycologos precibus prosequi non dubitavi, ut suarum specierum typica exemplaria ad me mitterent,

haec ceteris non typicis speciebus, ab aliis inventis ac taxonomicis dispositis inque floris peculiaribus recensitis praeferens. Valde igitur gaudeo quod meis postulatis libentes faverunt omnes ad quos confugi doctissimi Viri, qui ita ejusmodi operis fundamenta, pene dixerim, jecerunt, quod numquam sine eorum opibus atque favore caeptum fuisset. Hisque scientiarum cultoribus clarissimis dum gratias maximas ago habeoque, hoc quoque qualecumque opus meae eorum virtutis aestimationis ac grati animi testimonium dedico et consecro. Bene igitur paratus tanta ad opus aggrediendum quasi materia, non amplius ejus initium differendum putavi. Quibus autem legibus et normis opus adhuc exaratum sit, brevi exponam:

I Quam commodissime fecisse visus sum eam ceteris praeferens methodum, qua cujusque ad eamdem familiam pertinentis generis monographia ordinatim conficeretur. Qua de re opus est monographicum.

II Inter microscopicos fungos maxime illustrandi mihi visi sunt PYRENOMYCETES, ideoque ad studium huius classis me totum contuli.

III Saccardianam taxonomicam dispositionem secutus sum, pri-  
mum quia omnium convenientissimam existimavi, deinde quo opus  
meum, cum SYLLOGES ejusdem esset illustratio, hujus continuatio  
et complementum haberetur.

IV Ne quid in originalium speciminum studio praetermitte-  
retur quam diligentissime curavi, ea praesertim accurate inter se  
comparans quae identica mihi viderentur.

V Operam diligentiamque in figuris delineandis atque litho-  
graphicis sculpidis quam maximum posui, ne quid veritati videre-  
tur ablatum.

VI Ad nomen cujusque speciei suum SYLLOGES locum rettuli  
praecipuamque veterem et novam (interdum etiam copiosam) sy-  
nonymiam adjunxi, de qua typicorum speciminum diligens studium  
me admonebat.

VII In fine cujusque generis, de speciebus omnibus sum  
brevi locutus, quas investigatione persequi non potui, sive quia

in collectionibus (vetustissimis interdum) quibus usus sum earum exemplaria non inveni, sive quia temporis iniuria interciderunt.

VIII Omnia specierum delineatarum, *habitat* magnitudinemque partium brevi notavi, et semper adjunxi a quo herbario delineatum specimen excerpserim.

IX Indice synonymico specierum descriptarum, ordine alphabetico digesto, cujusque familiae tractatio praedita est.

Nunc autem, quum hanc operis mei primam partem in lucem profero, hoc unum cupio atque opto ut meum **SACCARDIANAE SYLLOGES** complendae conatum MyCOLOGI libentes excipiant, eosque, hoc opus benigne judicantes, iis auxiliis, quibus hucusque me aequo animo iuvarunt, numquam mihi spero defuturos.

Scrib. Asculi Picenorum, Idibus Juniiis MDCCCXC.

A. N. BERLESE

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## LOPHIOSTOMACEAE<sup>1</sup> Sacc. (Syll. Pyr. II p. 673)

Simplices. Perithecia plus minusve immersa, vel superficialia, nigra, ostiolo compresso, rimose dehiscente. Asci paraphysati, octospori.

### Clavis analitica generum

Sporidia continua fusca . . . . .	. . . . .	<i>Lophiella</i> 2	
Sporidia bilocularia . . .	( fusca . . . . .	<i>Schizostoma</i>	
	( hyalina . . . . .	<i>Lophiosphaera</i>	
		( perithecia pilosa . . . . .	<i>Lophiotricha</i>
Sporidia transverse pluriseptata . . .	( hyalina ( perithecia calva . . . . .	<i>Lophiotrema</i>	
	( colorata . . . . .	<i>Lophiostoma</i>	
Sporidia muriformia . . .	( colorata . . . . .	<i>Lophidium</i>	
	( hyalina . . . . .	<i>Lophidiopsis</i>	
Sporidia filiformia . . . . .	. . . . .	<i>Lophionema</i>	

**SCHIZOSTOMA** Ces. et D. Not. Schema Sf. It. p. 220 p. p. nec Ehrenb. et Lèv. Sacc. Syll. Pyr. II, p. 673. *Lophiostoma* Winter Die Pilze II, p. 289 p.p. Species omnes lignicolae vel corticolae, numquam cauli - vel foliicolae.

**Schizostoma microsporum** Pass. in litt. Martelli in Flor. Bog. p. 146. Berlese et Vogl. Add. Syll. p. 254.

*Hab. in cortice arborum*, Keren, Abissinia settentrionale.

Perithecia subgregaria,  $\frac{1}{3}$  mm. diam.; asci 65-75  $\approx$  10; sporidia 14-16  $\approx$  5. (Tab.I, Fig. 1. — Ex exemplari typico a cl. Prof. Passerini benevole comunicato).

**Schizostoma vicinum** Sacc. Mich. I, p. 337. Syll. Pyr. II, 673. *Lophiostoma vicinum* Sacc. F. it. 239. Mich. I, 44. Winter Die Pilze II p. 291.

*Hab. in cortice duriore quercino et populino in silva Montello Ital. bor.* (Sacc.) *et Augsburg in Germania* (Rehm).

Perithecia sparsa,  $\frac{1}{3}$  mm. diam.; asci 85-95  $\approx$  13-15; sporidia 28-30  $\approx$  8. (Tab. II, fig. 1 — Ex Rehm Ascomyc. n. 485).

<sup>1</sup> Cfr. Berlese Note sulle Lophiostomaceae in Malpighia 1890.

<sup>2</sup> Genus dubium, iterus inquirendum. An non bene examinatum?

**Schizostoma vicinellum** Sacc. Mich. I. 335—337. Syll. Pyr. II, 674.  
Rehm Asc. Loik. n. 52.

*Hab. in ligno abietino putrescente Gratz Styriae (Magnus) et ad ramicos sicclos Artemisiae campestris in insula Csepel Danubii Hungariae.*

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam.; asci 80-90  $\approx$  10-12; sporidia 22-25  $\approx$  5-7.  
(Tab. II, fig. 2. — Ex exemplari typico in Herbario Saccardiano).

**Schizostoma motellieum** Sacc. Mich. I, p. 337. F. it. 146, Syll. Pyr. II. p. 673.

*Hab. in cortice duriore quercino, Montello Ital. ber.* (Tab. II, fig. 3. — Ex exemplari originali in Herb. Sacc.)

Perithecia sparsa, carbonacea,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam.; asci 180-200  $\approx$  20-22; sporidia 36-40  $\approx$  10-12.

**Schizostoma pachytele** (B. et Br.) Sacc. Mich. I, 336, Syll. Pyr. II, p. 675. *Sphaeria pachyt.* Berk. et Br. Ceyl. F. n. 1109. *Lophiosphaera pach.* Trev. in Bull. Soc. Sol. Belg. t. 16, p. 19.

*Hab. in ligno putri*, Dolosbagey, Ceylon supra 1000 metr. alt. (Tab. I fig. 2. — Ex exemplari originali a cl. M. C. Cooke benevole comunicato.)

Perithecia magna, 1 mm. et ampl. diam., rugosa; asci 40-45  $\approx$  6-8; sporidia 14-16  $\approx$  3,5-4. — Species singularis, sporidiis senioribus 1-septatis, apicibus hyalinis, peritheciisque magnis congenibus valde distincta.<sup>1</sup>

### Species quas examinare non potui<sup>2</sup>

*Sch. vicinissimum* Speg. (Sacc. Syll. II, 674) *Sch. Bellunense* Speg. (Syll. 674) *Sch. tuyutense* Speg. (Syll. 674) *Sch. Schiomburgkii* (Berk) Sacc. Syll. 675 (dubia).

**LOPHIOSPHAERA** Trev. l. c. et in Just Bot. Jahresb. 1877. p. 148. Sacc. Syll. Pyr. II, p. 675. Genus haud bene definitum et cum *Lophiotrenate* saepius moleste intricateque confluens.

**Lophiosphaera querceti** (S. et Sp.) Sacc. Syll. Pyr. II, p. 676. *Schizost. querceti* Sacc. et Speg. Mich. I, 410. Sacc. F. it. 358.

*Hab. in cortice quercino prope « Conegliano » Italiae borealis.*

Perithecia  $\frac{1}{3}$  mm. diam., sparsa; asci 80-100  $\approx$  12; sporidia 23-26  $\approx$  7-9.  
(Tab. II, fig. 4. — Ex exemplari originali in Herb. Sacc.) Ostiolo parum vel minime compresso, vix *Lophiomycetaceae*. Aptius inter *Didymellas* inquirenda?

**Lophiosphaera forojuliensis** Berl. n. sp. *Lophiosph. intricata* Berl. (non Lehm.) Excurs. Mycol. Frioul, p. 18 (ubi adest diagnosis.)

*Hab. in ligno et cortice ramicorum Salicis cinereae « Osoppo » agri Forojuliensis. It. borealis*

<sup>1</sup> Sporidia huius speciei minutissime examinata, semper didyma inveni. Apices hyalini numquam septo separantur.

<sup>2</sup> Ad calcem singulorum generum subjunxi species quas examinare nequivi. Nonnullae vero genuinae erunt, sed pleraeque, auctioribus senioribus tantum repertae, dubiae vel omittendae videntur.

Perithecia sparsa vel subgregaria,  $\frac{1}{4}$  mm. diam.; asci 90-100  $\approx$  10-12; sporidia 18-20  $\approx$  6-8. (Tab. II, fig. 5. — Ex exemplari originali in Herb. meo.)

**Lophiosphaera Helichrysi** (Fabr.) Berl. *Lophiotr. Hel.* Fabr. Vaucl. II, p. 60, fig. 40. Sacc. Syll. Pyr. II, p. 684.

*Hab. ad caules emortuos Helichrysi Staechadis, Vaucluse Galliae et Hel. angustif. pr. « Fornovo » agri parmensis It. bor.* (Passerini).

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., modo sparsa, modo dense conferta; asci 100-110  $\approx$  10-12; sporidia 22-26  $\approx$  6 (Tab. I, fig. 3. — Ex exempl. a cl. Passerini benevole comunicato.)

**Lophiosphaera Beckhausii** (Nitsch.) Berl. et Vogl. Addit. ad Syll. p. 424. *Lophiostoma Beckb.* Nitsch. in Lehm Syst. Bearb. Pyr. Loph. p. 74, fig. 42.

*Hab. in ligno fagineo Münster.* (Nitschke).

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 100-130  $\approx$  16-18; sporidia 32-34  $\approx$  8, rarius 40  $\approx$  7 (Tab. III, fig. 3. — Ex exempl. originali in Herb. Nitschkeano). Sporidiis pseudo 3-5-septatis, inter genera *Lophiosph.* et *Lophiotrema* media, sed aptius primo adscribenda.

**Lophiosphaera lignicola** Sacc. in Berl. et Vogl. Add. ad Syll. p. 258. *Lophiosph. subcorticalis* var. *lignicola* Sacc. F. it. 243, Syll. Pyr. II, p. 676. *Lophiostoma meridionalis* Ellis in Journ. of. Myc, IV, p. 76.

*Hab. in ligno arborum nonnullarum subputri in Italia et America boreali.*

Perithecia  $\frac{1}{3}$  mm. diam.; asci 90-100  $\approx$  12; sporidia 30-35  $\approx$  6-7 (Tab. III, fig. 1. — Ex exemplari originali *Loph. meridionalis* a cl. Ellis benevole comunicato. *Fungillum americanum* cum exempl. orig. saccardianis minutiose comparavimus.)

**Lophiosphaera anaxaea** (Sacc.) Trev. in Bull. Soc. Bot. Belg. t. XVI, p. 19. Sacc. Syll. Pyr. II, p. 677. *Lophiost. anax.* Sacc. Mich. I, p. 446, F.it.251. *Lophiostoma glaciale* Rehm. Asc. Loik n. 59. *Lophiosph. glacial.* Sacc. Syll. Pyr. II, p. 677.

*Hab. in caule ramisque Artemisiae camphoratae, Cytisi hirsuti et Globulariae chordatae « Narvesa » Italiae bor.*

Perithecia  $\frac{1}{2}$  mm. diam.; asci 90-100  $\approx$  16-18; sporidia 26-28  $\approx$  6-8 (exclusis appendic.)<sup>1</sup> (Tab. II, fig. 6. — Ex exempl. origin. in *Globularia*, in Herb. Sacc.)

**Lophiosphaera Fuckelii** Sacc. Syll. II, p. 678. *Lophiostoma Fuckelii* Sacc. Mich. I, 336. F. it. 254. *Loph. diminuens* Fuck. Symb. 256, Sacc. F. Ven. III, p. 4, non Fr. *Lophiost. rubicolum*. Nitsch. in Lehm. Syst. Bearb. Pyr. Loph. p. 58, fig. 39. Berl. et Vogl. Add. ad Syll. p. 426.

*Hab. in sarmentis Rubi fruticosi emortuis in Italia et Germania. Satis frequens.*

Perithecia  $\frac{1}{5}$ - $\frac{1}{4}$  mm. diam., subgregaria; asci 60-80  $\approx$  8-10; sporidia 15-18  $\approx$  4-5 (Tab. II, fig. 7. — Ex exemplari in agro forojuliensi lecto (Cfr. Exc. Myc.

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<sup>1</sup> Dimensionibus sporidiorum adde semper, in speciebus appendiculatis, « exclusis appendiculis »

Frioul. p. 18), et cum exempl. Fuck., Saccard. et Nitsch. comparato). Valde affinis (et verisimiliter aegre distincta) a *Loph. pulveracea* et *L. cristata*.

**Lophiosphaera pulveracea** Sacc. Syll. Pyr. II, p. 678. *Lophiost. pulv.* Sacc. Mich. I, 336, f. it. 255. *Lophiost. conchoides* Ellis in litt.

*Hab. in ligno quercino putri « Selva » Ital. bor.*

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; asci 70-80  $\approx$  10-12; sporidia 16-20  $\approx$  4-5 (Tab. II, fig. 8. — Ex exempl. originali in Herb. Sacc.) A *L. Fuck.* peritheciis densius confertis, lignicolis differt. Potius var.?

**Lophiosphaera cristata** (Fabr.) Berl. *Lophiotrema crist.* Fabr. Vaucl. II, p. 61. Sacc. Syll. Pyr. II, p. 687.

*Hab. ad ramulos emortuos et decorticatos Ericae arboreae « Vaucluse » Galliae.*

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 60-70  $\approx$  8; sporidia 16-20  $\approx$  5. (Tab. I, fig. 4. — Ex exemplari originali a cl. Fabre benevole comunicato.) Differt a *L. Fuck.* peritheciis sparsis, lignicolis. An satis? A *L. pulverac.* vix distincta.

**Lophiosphaera heterostoma** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 425. *Lophiost. heter.* Ellis et Ev. Journ. of Myc. 1886, p. 99.

*Hab. in discis dolii vinarii quercini, « Louisiana » Am. bor.*

Perithecia  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., sparsa vel subgregaria; asci 70-80  $\approx$  6-8; sporidia 18-20  $\approx$  4-5 (Tab. III, fig. 2. — Ex exempl. origin. a cl. Ellis benevole comunicato) Affinis *L. pulveraceae* a qua peritheciis sparsis majoribusque differt.

### Species exclusae, non esaminatae vel dubiae.

*Loph. schizostoma* (Mont.) Trev. Non vidi. Mibi dubia. *Loph. viticola* Sacc. idem ac *Lophiotrema praemorsum*. *Lophiosph. perpusilla* Sacc. Perithecia dein ore rotundo hiantia, ostiolo numquam compressa, epidermide subinde rumore erupta. Est *Scirria* sp. *Lophiosph. glacialis* (Rehm) Sacc. idem ac *Lophiosph. anaara*. *Lophiosph. bonariensis* Speg. Non vidi. Affinis *L. Fucketii*. *Lophiosph. vigheffulensis* est *Lophiotrema*. *Lophiosph. subcorticalis* est *Lophiostoma*.

**LOPHIOTREMA** Sacc. Mich. I, 338. Syll. Pyr. II, p. 678.

**Lophiotrema leucospororum** (Nitsch.) Berl. et Vogl. Add. Syll. p. 425. *Lophiost. leuc.* Nitsch. in Lehm. Syst. Loph. p. 26. f. 6.

*Hab. in Sio latifolio, Münster* (Nitschke).

Perithecia subgregaria,  $\frac{1}{3}$  mm. diam; asci 90-100  $\approx$  8-9; sporidia 20-24  $\approx$  5-6 (Tab. I, fig. 7. — Ex exempl. origin. a cl. O. Brefeld benevole comunicato).

**Lophiotrema vigheffulense** (Pass.) Berl. *Lophiosph. vigheffulensis* Pass. in Erb. Critt. it. II, n. 1373. Berl. et Vogl. Add. Syll. p. 254.

*Hab. in cortice exsiccatæ Deutziae scabrae « Vigheffio » pr. Parma Ital. bor.*

Perithecia  $\frac{1}{3}$  mm. diam., plus minus crebre sparsa; asci 70  $\approx$  6-8; sporidia 20-23  $\approx$  3-4 (Tab. I, fig. 5. — Ex exempl. originali a cl. Pass. benevole misso.)

**Lophiotrema hysteroides** (Ell. et Langl.) Berl. *Lophiostoma hyst.* Ell. et Langl. in Journ. of Myc. IV, p. 76.

*Hab. ad lignum vetustum Quercus « Louisiana » Am. bor.*

Perithecia  $\frac{1}{3}$  mm. diam., gregaria; asci 60-70  $\approx$  5-8; sporidia 12-13  $\approx$  3-4 (**Tab. III, fig. 4.** — Ex exempl. originali a cl. Ellis benevole misso). Vix *Lophiostomacea*!

**Lophiotrema Nucula** (Fries) Sacc. Mich. I, 336, 338, F. it. 249. Syll. Pyr. II, p. 679. *Lophiostoma Nuc.* De Not. Sch. Sfer. it. p. 46. *Sphaeria Nucula* Fr. S. M. II, 466. *Lophiotrema duplex* Karst. M. Fenn. I, p. 86. Sacc. F. it. 256. *L. nuculinum* Rehm Augsb. Pilz. p. 77. *Trematosph. sambucivora* Rehm Asc. n. 382. *Lophiotrema duplex* Sacc. Syll. II, p. 679. *Lophiotr. Loniccorae* Fabr. Spher. Vaucl. II, 61, fig. 12. Sacc. Syll. Pyr. II, p. 680. *Lophiost. microcarpum* Nitsch. in Lehm. Loph. p. 100 fig. 37-38. *Lophiost. curtum* Lehm. Syst. Pyr. Loph. p. 55 fig. 35 (An hoc adscr. *Sph. curta* Fr. ?)

*Hab. in cortice arborum plurim in fere tota Europa* (**Tab. I, fig. 6.** — Ex specim. in Herb. Nitsch. cum multis aliis comp.)

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., sparsa vel gregaria; asci 110-120  $\approx$  8; sporidia 18-20  $\approx$  6.

**Lophiotrema hungaricum** Rehm Hedw. 1883 p. 38, Sacc. Syll. Pyr. II, Add. LXIX.

*Hab. in caulis putridis Aconiti Napelli in valle « Kohlbach » Alpium Tatrae Hungariae.*

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., gregaria; asci 100-110  $\approx$  15-18; sporidiis 30-33  $\approx$  8-9 (**Tab. I, fig. 8.** — Ex exemplari originali) Inter *Lophiotrema* et *Lophiotrichum* fere medium.

**Lophiotrema vagabundum** Sacc. Mich. I, 443, II, 72. F. it. 246 (sub *Lophiostoma*) Syll. Pyr. II, p. 684 *Lophiostoma Origani* Kunze F. sel. ex. n. 97. *Lophiotrema Orig.* Sacc. Syll. Pyr. II, p. 684. *Lophiost. cultum* Nitsch. in Lehm. Syst. Bearb. Pyr. Loph. p. 80, fig. 23. Berlese et Vogl. Add. Syll. p. 426. *Lophiost. Ligustri* Nitsch. in dem. l. c. p. 55, fig. 36. Berl. et Vogl. Add. p. 428. *Lophiotr. rubidum* Sacc. Bomm. et Rouss. Misc. Myc. I, p. 18. Berl. et Vogl. Add. Syll. p. 256. *Lophiotr. Scrophulariae* var. *cruentulum* Bizz. F. Ven. novi p. 3. Berl. et V. l. c. p. 256. *Lophiostoma Notarisii* Nitsch. in Lehm. Pyr. Loph. p. 31. fig. 1 p. p.

*Hab. in caulis variis in Italia, Germania, Gallia.*

Perithecia sparsa vel gregaria,  $\frac{1}{3}$ - $\frac{1}{4}$  mm. diam.; asci 90-110  $\approx$  8-10; sporidia 22-25  $\approx$  4-6 (**Tab. IV, fig. 1.** — Ex *Loph. Scrophul.* var. *cruentulum* in Herb. Sacc.)

*Var. radicans* (Ell.) Berl. *Lophiostoma radicans* Ellis Journ. of Myc. III, p. 44.

*Hab. in ligno carioso Rhois radicantis « Newfield » Am. bor.*

Perithecia sparsa  $\frac{1}{4}$ - $\frac{1}{5}$  mm. diam.; asci 60-80  $\approx$  8-12; sporidia 20-22  $\approx$  2-6 (**Tab. III, fig. 5.** — Ex exemplari originali a cl. Ellis benevole comunicato).

**Lophiotrema Artemisiae** Fabr. Spher. Vaucl. p. 67, fig. 57. Sacc. Syll. Pyr. II, p. 683.

*Hab. in caulis emortuis Artemisiae campestris, « Vaucluse » Galliae.*

Perithecia sparsa  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam.; asci 100-120  $\approx$  10-12; sporidia 24-26  $\approx$  6-7 (Tab. III, fig. 6. — Ex exemplari originali a cl. Fabre benevole comunicato). Affiae *Lophiotr. praemorsa*, a quo differt sporidiis brevioribus, loculo medio distincte crassiore. Verisimiliter ut varietas habendum. Dimens. Fabreanae sporid. nostris majores.

**Lophiotrema affine** Speg. Mich. I, p. 465. F. it. 616. Syll. Pyr. II, p. 687.

*Hab. in ramulis emortuis Ampelopsis hederaceae « Conegliano » It. bor.*

Perithecia  $\frac{1}{10}$ - $\frac{1}{8}$  mm. diam.; laxe gregaria; asci 80  $\approx$  10-12; sporidia 18  $\approx$  6. (Tab. IV, fig. 2 - Ex Sacc. F. it. l.c.) Minutie peritheciorum mihi valde dubium!

**Lophiotrema culmiphragum** Sp. Mich. I, 166, Sacc. F. it. 611. Syll. Pyr. II, p. 682.

*Hab. in culmis putrescent. Arundinis Donnacis « Conegliano » It. bor.*

Perithecia  $\frac{1}{5}$ - $\frac{1}{3}$  mm. diam.; asci 80-90  $\approx$  8-10; sporidia 20-25  $\approx$  4-5. (Tab. IV, fig. 3. — Ex Sacc. F. it.)

**Lophiotrema praemorsum** (Lasch) Sacc. Mich. I, 513, Syll. Pyr. II, p. 681. *Sphaeria praem.* Lasch. in Rab. H. M. n. 1249. *Lophiostoma praem.* Fuck. Symb. p. 157, Sacc. F. it. tab. 253. *Loph. Jerdoni* B. et Br. Brit. F. n. 975, t. XVII, f. 58. *Lophiost. angustilabrum* B. et Br. Brit. F. n. 881, t. XI, f. 27. *Lophiotr. ang.* Sacc. Syll. Pyr. II, p. 687. *Lophiost. sex-nucleatum* Cooke Handb. n. 2543, f. 392. *Lophiotr. sexnucleat.* Sacc. Syll. Pyr. II, p. 683. *Lophiotrema Fontanesiae* Pass. Diagn. Fung. nuovi, p. 13. *Loph. Winteri* Sacc. Mich. I, 358, F. it. 360. Syll. Pyr. II, p. 688. *Lophiost. Hederae* Fuck. Symb. 157. *Lophiotr. Hed.* Sacc. Mich. I, 338, Syll. Pyr. II, p. 678. *Lophiost. Cookei* Nit. in Lehmann. Loph. p. 66 fig. 2. *Lophiotr. Cookei* Berl. et Vogl. Add. p. 425.

*Hab. in cortice ramorum plantarum plurimum in tota fere Europa et Am. bor.*

Perithecia  $\frac{1}{3}$ - $\frac{2}{3}$  mm. diam. subsparsa; asci 100-110  $\approx$  8-12; sporidia 24-28  $\approx$  6-7 (Tab. III, fig. 7-9. — Ex exemplari in Herb. Sacc.) Species sporidiorum fabrica admodum variabilis; nunc sporidia sunt bilocularia, mutica vel appendiculata<sup>1</sup>, et tum ea *Lophiosphaerae* perfecte simulant; (fig. nostra 7) nunc vero pluriguttata vel pseudo-septata sunt, et mutica vel appendiculata.

**Lophiotrema semiliberum** (Desm.) Sacc. Mich. I, 338 Syll. Pyr. II, p. 682. *Lophiostoma semil.* Ces. et De Not. Sch. p. 46. Sacc. F. it. 245. *Sphaeria semil.* Desm. Ann. Sc. nat. 1846, p. 78.

*Hab. in culnis exsiccatis Graminacearum in tota fere Europa.*

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., sparsa vel gregaria; asci 100-120  $\approx$  10-12; sporidia 35-40  $\approx$  6. (Tab. 4, fig. 4. — Ex exempl. orig. in Desmaz. Pl. Crypt. Fr. n. 1787). Valde affine et verisimiliter non probe distinctum a *L. praemors.*

**Lophiotrema crenatum** (Pers.) Sacc. Mich. I, 338, F. it. 359, Syll. Pyr.

1 De appendicularum natura efr. meam opellam « Note sulle Lophiostomaceae » in Malpighia 1890.

II, p. 680. *Sphaeria crenata* Pers. Syn. 54. *Lophiost. cren.* Fuck. Symb. 157. *Lophiotrema Cotini* Fabr. Spher. Vaucl. II, p. 61, fig. 41. Sacc. Syll. Pyr. II, 680.

*Hab. ad ramos putr. plantarum plurimum in fere tota Europa.*

Perithecia sparsa vel gregaria  $\frac{1}{3}$ - $\frac{1}{4}$  mm. diam.; asci 120-150  $\approx$  10-12; sporidia 26-30  $\approx$  5-7. (Tab. IV, fig. 5. — Ex exempl. origin. *Lophiotr. Cotini* a cl. Fabr. benevole comunicato). A *L. praem.* ostiolo eximie cristato differt.

**Lophiotrema littorale** Speg. in Sacc. Mich. I, 466. F. it. 612, Syll. Pyr. II, p. 681.

*Hab. in ligno decorticato Salicis fragilis « Lido » Venetiae.*

Perithecia laxe gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; asci 140-150  $\approx$  20-22; sporidia 55-40  $\approx$  12-14. (Tab. IV, fig. 6. — Ex icone Saccardiana).

**Lophiotrema massariooides** Sacc. Mich. I, 412, F. it. 360. Syll. Pyr. II, p. 686. *Lophiostoma simile* Nit. in Lehm. Loph. p. 65, fig. 43 (nec Fuck.) *Lophiotr. simile* Berl. et Vogl. Add. 425. *Lophiost. insculptum* Nit. in Lehm. Loph. p. 114 fig. 48 (non Rehm).

*Hab. in ramis Ailanthi gland., Rhamni et in ligno salicino in Italia et Germania.*

Perithecia sparsa vel laxe gregaria,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; asci 120-150  $\approx$  18-22; sporidia 35-40  $\approx$  7-9. (Tab. IV, fig. 7. — Ex exempl. origin. *Loph. insculpti* ex herb. Nitsch.) Pulchra et distincta species!

**Lophiotrema auctum** Sacc. Syll. Pyr. II, p. 688 (cum f. *Rumicis*) *Lophiost. auctum* Sacc. Myc. Ven. Spec. 110 t. XI, fig. 5-10, F. it. 250. *Lophiost. appendicul.* Fuck. Symb. myc. App. II, 29, fig. 8 Sacc. Syll. II, p. 706.

*Hab. in ramulis Alni glut. in caule Rumicis et in ligno putri adhuc corticato Salicis in Italia, Gallia et Germania.*

Perithecia sparsa  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 120-150  $\approx$  14; sporidia 35-37  $\approx$  8. (Tab. III, fig. 10. — Ex exemplari originali formae *Rumicis*, a typo non distinctae, in Herb. Sacc.) Sporidia semper 7-septata, non 5-sept. ut in Syll. II, p. 688, in senectute fusca.

**Lophiotrema Cadubriae** Speg. Dec. Myc. 26, Mich. II, p. 163 Sacc. Syll. Pyr. II, p. 685.

*Hab. in culmis caulinibusque dejectis, putridis ad ripas lacus « Aleghe, Cadore » Italiae bor.*

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., sparsa; asci 120-140  $\approx$  20-24; sporidia 40-45  $\approx$  10-11 (Tab. V, fig. 1. — Ex exempl. originali in Herb. Sacc.)

**Lophiotrema alpinum** (Fuck.) Sacc. Mich. I, 338. Syll. Pyr. II, p. 685 (cum variet.) *Lophiostoma alp.* Fuck. Symb. p. 157. *Lophiost. Thümenianum* Speg. in Thüm. Pilze Weinst. t. 1. f. 19, et Amp. it. n. 33. *Lophiotr. Thümenianum* Sacc. Syll. Pyr. II, p. 686.

*Hab. in sarmenis Lonicerae, Vitis et in caule Galii in Italia et Germania.*

Perithecia gregaria vel subgreg.,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 100-120  $\approx$  14-16; sporidia 40-45  $\approx$  7-8. (Tab. V, fig. 2. — Ex f. *Lonic. sempervir.* in Herb. Sacc.)

Sec. cl. Spieg. *Loph. Thüm.* a *Loph. alpig.* sporidiis majoribus differt, sed dimensiones Spegazzinianas haud raro inveni excedentes. Sporidia *Lophiotrematum* fere omnium senio fuscescunt, sed color hic senectute et morte adscribendus.<sup>1</sup>

### Species non examinatae dubiae vel excludendae.

*Lophiotrema myriocarpum* (Fuck.) Sacc. Syll. 679. Non vidi. *Loph. Coryli* Fabr. (Syll. 681). Non vidi. *Loph. glandium* Fabr. (Syll. 681) Non vidi. *Loph. stenogramma* (Dur. et Mont.) Sacc. Syll. 681. Non vidi. Videtur *Loph. Nuenda*. *Loph. pusillum* Fuck. (Syll. 682) Non vidi. (Formae Aponensis Sacc. exempl. in Herb. Sacc. sterilia inveni!) *Loph. Scrophulariae* (Peck) Sacc. Syll. 683. Non vidi. Affine (in idem!) *L. praem.* *Loph. Helichrisi* est *Lophiosphaera*. *Loph. amplexum*. Rehm (Syll. 685) Non vidi. Affine *L. securul.* (h. e. *L. praem.*) var *Peltiaum* An idein? *Loph. Spiraeae* (Peck) Sacc. Syll. 686. Non vidi. Valde aff. verisimiliter non distinctum a *Loph. massaricoides*. *Loph. Sedii* (Fuck.) Sacc. Non vidi (Exempl. Rehmian. in Asc. n. 183 a *Lophioph. anax*. adscribitur). *Lophiotr. Notarisii* (Nitsch.) Berl. et V. Add. 425. Species collectitia. *Loph. recedens* Schultz. (Add. 255) Non vidi. *Loph. pallidum* (Ellis) B. et V. Add. 255 Non vid. *Loph. emergeus* Karst. (B. et V. Add. 256) Exempl. origin. senescentia inveni! *Loph. Mollerianum* (Wint.) Berl. et V. 256. Non vidi. *Loph. acutivorum* (Ell. et Ev.) Berl. (Cfr. Journ. Myc. III, p. 118) Non vidi.

**LOPHIOTRICA** Rich. Sphér. Nouv. in Bull. Soc. Bot. Franc. 1885, p. XI. Berlese et Vogl. Add. p. 234. — Sporidia primo didyma dein distincte trisepitata.

Perithecia villo obvoluta, non setosa. In matrice et circum perithecia, mycelia sterilia *Ozonii* cujusdam inveni.

An villo peritheciorum cognata? Re vera ab hoc aliena videtur, sed biologicè tutius definienda res.

**Lophiotricha Viburni** Rich. l. c. p. XII, t. XII. Berl. et Vogl. l. c. p. 255.

*Hab. ad ramos. emortuos Viburni Lantanae « Soulages » prope « Saint-Amand sur Fion » Galliae.*

Perithecia gregaria,  $\frac{1}{2}$ , mm. diam.; asci 130-150  $\approx$  14-18; sporidia 40-44  $\approx$  6-7. (Tab. XI, fig. 7. — Ex exempl. origin. a cl. C. Richon benevole communicato).

**LOPHIOSTOMA** (Fr.) Ces. et De Not. Sch. sf. it. p. 45 p. p. Sacc. Mich. I, 339. Syll. Pyr. II, p. 689. Winter Die Pilze II, p. 289 p. p. Lehm. Pyr. Loph. p. 61 p. p. *Sphaeriae Lophiostomae* Fr. Summa Veg. Sc. 391.

**Lophiostoma parvulum** Berl. n. sp. *Lophiost. Nucula* Lehm. Pyr. Loph. p. 128, fig. 55. (non Nitsch.)

*Hab. in ligno quercino prope « Sugenheim » in Franconia.*

Perithecia  $\frac{1}{3}$ , mm. diam., subgregaria; asci 60-70  $\approx$  6-7; sporidia 11-14  $\approx$  4. (Tab. V, fig. 3. — Ex exempl. *Loph. Nuculae* in Herb. Nitsch.) Dimensiones Lehmannianae, juxta comparationem meis majores.

**Lophiostoma quadrinucleatum** Karst. Myc. Fenn. II, 85, Sacc. F. it. 222. Syll. Pyr. II, p. 689. *Lophiost. absconditum* Pass. N. Giorn. Bot. it. VII, p. 257

1 Cfr. etiam meam opellam. Note sulle Lophiostomaceae. I. c.

Sacc. Syll. Pyr. II, p. 690. *Loph. Juniperi* Fabre Spher. Vaucl. I, p. 105, fig. 52.  
 Sacc. Syll. Pyr. II, p. 691. *Lophiost. Berberidis* Lehm. Pyr. Loph. p. 98. fig. 34.  
 Berl. et Vogl. Add. Syll. p. 427.

*Hab. in ligno vel cortice arborum plurium in Britannia, Italia, Fennia, Germania etc.*

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 100-110  $\approx$  14-16; sporidia 20-24  $\approx$  7-8.  
 (Tab. VI, fig. 1. — Ex exempl. origin. *Lophiost. Berberidis* in Herb. Nitschk.)

*Var. Rosacearum* Rehm Asc. Loik. n. 53, Sacc. Syll. Pyr. II, p. 689. *Lophium granulosum* Cr. Fin. p. 29, *Lophiostoma gran.* Sacc. Syll. Pyr. II, p. 633. Lehm. Pyr. Loph. p. 96 p.p. *Lophiost. Requienii* Fabr. Spher. Vaucl. I, p. 106, fig. 54. Sacc. Syll. Pyr. II, p. 692.

*Hab. in cortice ramorum Rosae, Pruni, Crataegi in Germania, Italia, Gallia et Transylvania.* (Tab. V, fig. 4. — Ex exempl. in *Crataego* prope « Ascoli » It. mediae a me collecto.)

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 90-100  $\approx$  10-12; sporidia 15-18  $\approx$  6-7.

*Var. caespitosum* Fuck. Symb. Myc. App. II, p. 29, fig. 9 (ut spec.) Sacc. Syll. Pyr. II, p. 690 (ut sp.) *Lophiost. acervatum* Karst. Myc. Fenn. II, p. 85, Sacc. Syll. Pyr. II, p. 693. *Loph. granulosum* Lehm. Pyr. Loph. p. 96 p. p.

*Hab. in ramis Pruni Padi et Crataegi Oxyacanthae in Germania et Fennia.*  
 (Tab. V, fig. 5. — Ex exempl. origin. *Loph. acervati* Karst.)

Perithecia caespitose collecta; asci 85-95  $\approx$  16-18; sporidia 22-24  $\approx$  6-7.

*Var. dumeti* Sacc. Mich. I, p. 448, F. it. 224, Syll. Pyr. p. 690. (ut sp.)

*Hab. ad ramos corticatos Rubi fruticosi « Vittorio » It. bor.*

Ex autopsia exemplarium typicum patet, speciem saccardianam a *Loph. quadrinucl.* nisi sporidiis utrinque acutioribus differre, et potius quare var. habendam.

**Lophiostoma rhopaloides** Sacc. Fungi It. n. 237. Syll. Pyr. II, p. 689.  
*Loph. quadr. \*L. rhopaloides* Sacc. Mich. I, p. 43.

*Hab. in ligno nigrificato Castaneae vescae « Selva » It. bor.* (Tab. VI, fig. 2.

— Ex exemplari orig. in Herb. Saccard.)

Perithecia  $\frac{1}{3}$  mm. diam., sparsa; asci 95-105  $\approx$  12-14; sporidia 22-24  $\approx$  6,5-8.  
 Ob ostiola vix lophiostomacea, latiuscule pertusa, ad *Trematosphaeriam* vergit.

**Lophiostoma Pruni** Ellis in Journ. of Myc. IV, p. 64.

*Hab. in ramis Pruni serotinae « Lyndonville » Am. bor.* (Tab. VI, fig. 3.

— Ex exempl. origin. a cl. Ellis benevole comun.)

Perithecia  $\frac{1}{3}$  mm. diam.; asci 80-90  $\approx$  8-9; sporidia 18-20  $\approx$  6-7. Affine *L. quadrinucleata*, (a quo loculis eguttulatis praecipue differt) et *L. pseudomacrostomo*, sed sporidiis raro 4-5-septatis, et longitrorsum divisis.

**Lophiostoma isomerum** Nitschke in Lehm. Syst. Bearb. Pyr. Loph. p. 86, fig. 57. Berl. et Vogl. Add. ad Syll. p. 426.

*Hab. in cortice Salicis et Quercus pr. Münster.* (Tab. V. fig. 6. — Ex exempl. originali in Herb. Nitsch.)

Perithecia 1 mm. diam., subinde ostiolo  $1\frac{1}{2}$  mm. longo, ascii 120-130  $\approx$  16-20; sporidia 20-22  $\approx$  8-10.

**Lophiostoma fallaeissimum** Karst. in Hedw. 1884, n. 2, p. 1. Rev. Mon. Asc. Fenn. p. 86. Berlese et Vogl. Add. ad Syll. p. 258.

*Hab. in cortice Tiliae ulmifoliae prope Aboam Fenniae* (Tab. V, fig. 7. — Ex exempl. originali a cl. Karst. benevole comunic.)

Perithecia ut plurimum conserta,  $\frac{3}{4}$  mm. diam.; ascii 140-160  $\approx$  12-15; sporidia 28-31  $\approx$  9-11. Affine *L. Desmaz.* a quo differt in primis sporidiis semper levibus.

**Lophiostoma Desmazierii** Sacc. et Speg. Mich. I, 441. Sacc. Fungi it. 606. Syll. Pyr. II, p. 693. *Loph. viridarium* Cooke Handb. p. 849, Sacc. Syll. II, p. 691. *Lophiost. Syringae* Fabre Spher. Vaucl. I, p. 104, fig. 51. Sacc. Syll. Pyr. II, p. 692. *Loph. striatum* Sacc. Miscell. Myc. I, p. 7 Berlese et Vogl. Add. Syll. p. 258. *Massaria alpina* Sacc. et Speg. Mich. I, p. 440, Sacc. F. it. 412. Syll. Pyr. II, p. 8. *Lophiost. diminuens* Lehm. Loph. p. 93, fig. 26-30 (non Pers.) *Loph. oblongatum* Otth. Verz. schweiz. Pilze n. 136 (sec. Lehm.)

*Hab. in ramis Pruni, Corni, Rhamni, Syringae, Aceris, Persicæ, Populi, Crataegi, in Germania, Italia, Britannia,* (Tab. V, fig. 8. — Ex exemplari origin. *Lophiost. viridarium*).

Perithecia gregaria vel sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; ascii 150-170  $\approx$  12-15; sporidia 28-35 (raro 40)  $\approx$  8-10, striato-muriculata, gelatinâ cincta.

**Lophiostoma perversum** De Not. Schema p. 219. Sacc. Syll. Pyr. II, p. 694. Berl. Fungi Moric. fasc. I, n. 4 fig. 1-8 *Sphaeria perv.* De Not. Micr. it. Dec. VII, fig. VIII, p. 125. *Loph. Sambuci* Lehm. Syst. Bearb. p. 14 p. p.

*Hab. ad ramulos decorticatos Mori, Populi et Lonicerae (?) in agro Veneto et in monte « Cenisio »* (Tab. VI, fig. 4. — Ex exempl. in *Moro alba* in Herb. mev.)

Perithecia subgregaria  $\frac{1}{3}$  mm. diam.; ascii 70-80  $\approx$  12-14; sporidia 20-23  $\approx$  7. Sporidiis saltem in juventute minute appendiculatis. *L. simillimum cognatum*.

**Lophiostoma caulinum** (Fr.) Ces. et De Not. Sch. p. 45, Niessl. in Hedw. 1875, p. 21-24, Sacc. Syll. Pyr. II, p. 697. *Sphaeria caul.* Fr. S. M. II, 509. *Loph. mendax* Ces. et De Not. Sch. p. 45. Sacc. Syll. Pyr. II, p. 697. *Loph. commutatum* Lehm. Loph. p. 81, fig. 22. Berl. et Vogl. Add. Syll. p. 429. *Loph. Galii* Lehm. Loph. p. 85. Berl. et Vogl. Add. Syll. p. 428. *Loph. Dipsaci* Lehm. Loph. p. 84, fig. 12. Berl. et Vogl. Add. Syll. p. 428. *Loph. parvulum* Nitsch. in Loph. p. 42, fig. 15. Berl. et Vogl. Add. Syll. p. 428).

*Hab. in caulinibus plantar. plurim, in fere tota Europa et Am. merid.* (Tab. VI, fig. 5. — Ex Rehm Ascom. exsicc. n. 181. In *Ononide spinosa*.)

Perithecia sparsa,  $\frac{1}{3}$  mm. diam.; ascii 80-90  $\approx$  12; sporidia 18-22  $\approx$  6-7. (Cfr. *f. microspora* in *Ononide* Sacc. Syll. l. c. et *Loph. commutatum* Lehm. l. c.)

*Forma majus* Rehm Asc. n. 749.

*Hab. in caulinibus Artemisiae « Regensburg »* (Tab. VI, fig. 6. — Ex exempl. origin. - Asc. n. 749.)

Perithecia sparsa; asci 90-110  $\approx$  14, (p. sp.); sporidia 28-30  $\approx$  8.

**Forma Sambuci.** Sacc. Syll. Pyr. II, p. 698. *Leptosphaeria Samb.* Sacc. Myc. Ven. Sp. p. 104, tab. X, fig. 15-18. *Lophiost. Barbeyanum* Sacc. et Roum, Rev. Myc. 1883, tab. 41, f. 15. Berl. et Vogl. Add. Syll. p. 257. *Loph. Sambuci* Lehm. Syst. Bearb. p. 111, p. p. (an Otth?)

*Hab. in ramis Sambuci nigrae « Padova » Ital. boreal. « Münster » et in Gallia (Tab. VI, fig. 7. — Ex exempl. origin. *Loph. Barbeyan.* in Herb. Sacc.)*

Perithecia sparsa,  $\frac{1}{3}$  mm. diam.; asci 80-90  $\approx$  14-16; sporidia 22-26  $\approx$  8.

**Lophiostoma vagans** Fabr. Spher. Vaucl. I, p. 103, tig. 48-49. Sacc. Syll. Pyr. II, p. 698.

*Hab. ad caules et ramos varios in Gallia. (Tab. VI, fig. 8. — Ex exempl. origin. in Quercu.)*

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; sparsa, rarius gregaria; asci 70-90  $\approx$  12-14; sporidia 16-20  $\approx$  6-7. Valde affine *L. caulinum*.

**Lophiostoma erosum** Ellis in Journ. of. Myc. III, p. 44.

*Hab. in Salice thelena « Montana » Am. bor. (Tab. VI, fig. 9. — Ex exempl. originali.)*

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 100-110  $\approx$  14; sporidia 22-24  $\approx$  5-6.

**Lophiostoma Arundinis** (Fr.) Ces. et De Not. Schema, p. 220. Sacc. Syll. Pyr. II, p. 699. Lehm. Loph. p. 87. *Sphaeria Arund.* Fr. S. M. II, p. 510. *Lophiost. semilibereum* f. *Arundinis* Lehm. Loph. p. 90. *Loph. palustre* Lehm. Loph. p. 89. Berl. et Vogl. Add. Syll. p. 428.

*Hab. in culmis exiccatis Arundinis in fere tota Europa (Tab. VI, fig. 10. — Ex exempl. in Herb. Nitsch.)*

Perithecia sparsa vel gregaria,  $\frac{1}{3}$  mm. diam.; asci 80-90  $\approx$  12-14; sporidia 28-32  $\approx$  5-6.

**Lophiostoma pseudomacrostomum** Sacc. Mich. I, p. 339, Fungi it. 234, Syll. Pyr. II, p. 695. Berl. Fungi Mor. fasc. II, n. 6, fig. 12-18. *Loph. macrostomum* Plur. auc. *Lophiost. compressum* Lehm. p. p.

*Hab. in ramis plantarum nonnullarum in Italia, Germania, etc. (Tab. VII, fig. 1. — Ex exempl. *Lophidii compressi* in Herb. Nitschk.)*

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., gregaria; asci 100-110  $\approx$  10; sporidia 22-26  $\approx$  6-8.

**Lophiostoma macrostomoides** De Not. Schema. 219, Sacc. Fungi it. 236, Syll. Pyr. II, p. 694. *Sphaeria macr.* De Not. Micr. it. Dec. VII, p. III.

*Hab. in ligno Salicium et Populorum in Italia, Germania et Gallia (Tab. VII, fig. 2. — Ex Lophiostomacea populicola a cl. Fabre missa.)*

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., gregaria; asci 120-140  $\approx$  12-14; sporidia 26-28  $\approx$  7-8.

**Lophiostoma oreophilum** Speg. Mich. I, p. 467, Sacc. F. it. 609. Syll. Pyr. II, p. 695.

*Hab. in ramulis emortuis putr. Corni sanguineae prope « Belluno » It. bor. (Tab. VII, fig. 3).*

Perithecia  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; asci 150-16-20; sporidia 30-35 = 8-10.

**Lophiostoma elegans** (Fabr.) Sacc. Syll. Pyr. II, p. 702. Berlese Fungi Mor. fasc. I, n. 3 fig. 8-14. *Navicella eleg.* Fabr. Spher. Vaucl. I, p. 97, fig. 36. *Loph. Balsamianum* Cald. in Erb. Critt. it. Ser. I, n. 649, (non De Not.)

*Hab. in cortice Mori et Juglandis in Gallia et Italia bor.* (Tab. VII, fig. 4.) — Ex exempl. *Loph. Bals.* in Erb. critt. I. c.)

**Lophiostoma simillimum** Karst. Myc. Fenn. II, p. 84, Sacc. Fungi it. 227, Syll. Pyr. II, p. 707. *Loph. bicuspitatum* b. Cooke Handb. p. 849. *Leptosphaeria Achilleae* Sacc. Myc. Ven. Sp. p. 104, t. X, fig. 19 a. b. *Loph. Galeopsidis* Lehm. Loph. 4. 84, fig. 13. Berl. et Vogl. Add. Syll. p. 427.

*Hab. in ramis et caulis plantarum plurium in Fennia, Britannia, Italia, Gallia.* (Tab. III. fig. 5.) — Ex exempl. orig. *Lept. Achilleae* in Herb. Sacc.)

Perithecia sparsa vel subgregaria,  $\frac{1}{3}$  mm. diam.; asci 85-95 = 12-14; sporidia 24-28 = 6-8. *Loph. insid.* valde affine, et in nonnullis formis (in *Moro* in *Dipsaco* etc.) aegre distinguendum.

**Lophiostoma insidiosum** (Desm.) Ces. et De Not. Schema, p. 220. Sacc. F. it. t. 226. Syll. Pyr. II, p. 703. *Sphaeria insid.* Desm. VIII Not. 1841, p. 16, t. 14. *Loph. caulinum* Fuck. Symb. p. 156. *Loph. appendiculatum* Niessl nec Fuck. *Loph. gramineum* Sacc. Mich. I, 543. Syll. Pyr. II, p. 704. *Loph. Menthae* Kirkn. in Thuem. F. Austr. n. 1163 et F. novi Austr. p. 3. Sacc. Syll. Pyr. II, p. 705. *Loph. ruscicola* (Fabr.) Sacc. Syll. Pyr. II, p. 705. *Rostrella ruscic.* Fabr. Spher. Vaucl. I, p. 102, fig. 45. *Rostr. Ruta* Fabr. I. c. II, p. 58. *Loph. Ruta* Sacc. Syll. Pyr. II, p. 706. *Rostrella Silai* Fabre I. c. II, p. 58. *Loph. Silai* Sacc. Syll. Pyr. II, p. 706. *Rostr. Cynopis* Fabr. I. c. II, p. 58. *Loph. Cynopis* Sacc. Syll. II, p. 706. *Loph. Lappae* Lehm. Loph. p. 26, fig. 4. Berl. et Vogl. Add. Syll. p. 430.

*Hab. in caulis plantarum plurium frequens in tota fere Europa* (Tab. VII, fig. 6.) — Ex exempl. in Herb. meo, cum multis e variis regionibus Europae comparat.)

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; asci 70-80 = 10; sporidia 20-27 = 8-10 (in formis nonnullis etiam 18 et in aliis usque 35 longa).

**Lophiostoma Niessleanum** Sacc. Mich. I, p. 447. Fungi it. 223. Syll. Pyr. II, p. 705. *Loph. intermedium* Sacc. Myc. I, 322. F. it. 225. Syll. Pyr. II, p. 704. *Loph. Diaporthe* Lehm. Loph. p. 28, fig. 8. Berl. et Vogl. Add. Syll. p. 429. *Loph. chrysosporum* Karst. in Rev. Myc. 1888, Juillet p. 8.

*Hab. in caulis Asteris Novi Belgii, Achilleae, Gei urbani, Salviae in ramulis Sambuci racemosae in Italia, Germania et Fennia* (Tab. VII, fig. 7.) — Ex exempl. orig. in Herb. Sacc.)

Perithecia gregaria vel sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; asci 80-90 = 10-12, sporidia 26-30 = 5-7.

**Lophiostoma Stuartii** Fabr. Spher. Vaucl. I, p. 102, fig. 46. Sacc. Syll.

Pyr. II, p. 699. *Lophidium Santolinae* Fabr. Spher. Vaucl. I, p. 99, fig. 40. Sacc. Syll. Pyr. II, p. 716.

*Hab. in ramis Thymi vulgaris, Rosmarini offic. et Santolinae Chamaecyparissi in Gallia (Vaucluse) (Tab. VII, fig. 8. — Ex exempl. origin. in Rosmarino, et cum *Lophid. Santol.* minute comparato.)*

Perithecia sparsa, usque  $\frac{1}{2}$  mm. diam.; asci 90-100  $\approx$  12; sporidia 24-28  $\approx$  5-7, juvenilia 3-5 septata, numquam (neque in typico *Lophid. Santol.*) muriformia.

**Lophiostoma congregatum** Harkn. New. Calif. Fungi p. 26. Berl. et Vogl. Add. Syll. p. 259.

*Hab. in ramis decortic. Sambuci racem. « Sierra Nevada » Californiae (Tab. VIII. fig. 1. — Ex exempl. origin. in Herb. Sacc.)*

Perithecia aggregata,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; asci 110-120  $\approx$  16-18; sporidia 38-42  $\approx$  8-10.

**Lophiostoma caudatum** Fabr. Spher. Vaucl. I, p. 103, fig. 47. Sacc. Syll. Pyr. II, p. 707. *Lophiost. clavisporum* Berl. et Vogl. Funghi Anc. p. 12 Tab. I, fig. 8. *Loph. prominens* Lehm. Loph. p. 38, fig. 10 (non Peck.) Berl. et Vogl. Add. Syll. p. 428.

*Hab. in caulis emort. Lycnidis albae, L. dioicae, Paliuri aculeati, in Italia, Germania et Gallia. (Tab. VIII. fig. 2. — Ex exempl. *L. clavisp.* in Herb. meo.)*

Perithecia sparsa,  $\frac{1}{3}$  mm. diam.; asci 90-100  $\approx$  12-16; sporidia 26-30  $\approx$  6-8.

**Lophiostoma daeryospororum** Fabr. Spher. Vaucl. I, p. 103, Sacc. Syll. Pyr. II, p. 708. *Lophiost. Phragmitis* Lehm. Loph. p. 44, fig. 18. Berl. et Vogl. Add. Syll. p. 428.

*Hab. in culmis Phragmitis comm. in Italia (Brusegana pr. Padova ubi legit cl. Prof. A. Palma) et in Gallia et Germania (Tab. VIII, fig. 3. — Ex exempl. italicico, cum originalibus gallico et germanico minutiose comparato.)*

Perithecia subsparsa,  $\frac{1}{3}$  mm. diam.; asci 110-120  $\approx$  13-16; sporidia 26-30  $\approx$  6-8.

**Lophiostoma biforme** Lehm. Loph. p. 69, fig. 47. Berl. et Vogl. Add. Syll. p. 428.

*Hab. in ligno quercino pr. « Parma » It. bor. ubi legit cl. Prof. Pascerini, et « Münster » Moraviae (Tab. VIII. fig. 4. — Ex exempl. origin. in Herb. Nitsch.)*

Perithecia conferta,  $\frac{1}{3}$  mm. diam.; asci 140-160  $\approx$  16-22; sporidia 36-40  $\approx$  8-10 primo triseptata (forma a Lehm.), dein 5-septata (forma b Lehm.).

**Lophiostoma collinum** Speg. Mich. I, p. 468. Sacc. F. it. 608, Syll. Pyr. II, p. 700. *Loph. melanion* Rehm Asc. n. 528.

*Hab. ad basim fol. Caricum et in culmis Festucae arundin. in Italia bor. (Conegliano, Belluno) et prope « Ausburg » (Tab. VIII, fig. 5. — Ex exempl. origin. *Loph. melan.* in Herb. Sacc.)*

Perithecia laxissime gregaria,  $\frac{1}{6}$  mm. diam.; asci 120-150  $\approx$  14-16; sporidia 28-35  $\approx$  8-11.

**Lophiostoma subcorticale** Fuck. Symb. Myc. p. 157. *Lophiostoma subcortic.* Sacc. Syll. Pyr. II, p. 677 p. p. *Lophiost. simile* Nits. sec. Rehm. Asc. n. 483, Sacc. Syll. Pyr. II, p. 696. (non Fuck.)

*Hab. ad corticem interiorem Pyri, in Germania.* (Tab. VIII, fig. 6. — Ex exempl. *Loph. simil.* Rehm Asc. n. 483).

Perithecia  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam., sparsa vel gregaria; asci 160-180 = 22-25; sporidia 48-54 = 10-12, diu bilocularia, hyalini, dein 7-septata, colorata.

**Lophiostoma macrostomum** (Tode) De Not. Schema p. 45. Sacc. Fungi it. 135 Syll. Pyr. II, p. 700. Berlese Fungi Mor. fasc. n. fig.

*Sphaeria macrostoma* Tode Mekl. II, p. 12 fig. 56. Fries Syst. Myz. II, p. 463.

*Hab. in cortice crassiore plantarum plurim in tota fere Europa et Am. bor.* (Tab. VIII, fig. 7. — Ex exempl. in Herb. Sacc.)

Perithecia  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam., sparsa; asci 90-110 = 16-20; sporidia 36-38 = 7-9.

*Var. septemseptatum* (Cfr. Sacc. Syll. I. c.)

*Hab. in cortice Salicis a colli Euganei » Ital. bor.* (Tab. VIII, fig. 8).

Perithecia sparsa,  $\frac{1}{2}$  mm. diam.; sporidia 40-45 = 9-11. Adest etiani var. 9-septata (americana et a cl. Ellis collecta) nobis non visa.

**Lophiostoma endophlaeum** Pass. Diagn. F. nuovi p. 13 (1887).

*Hab. in cortice interiore Persicae vulgaris » Vigheffio » prope « Parma. » It. bor.* (Tab. IX, fig. 1. — Ex exempl. origin. a cl. Prof. Passerini benevole comunicato.)

Perithecia subsparsa,  $\frac{1}{3}$  mm. diam.; asci 90-110 = 10-12; sporidia 22-26 = 6-8.

**Lophiostoma nigricans** Berlese n. sp. Exc. Myc. Frioul. p. 19 (non Lehm.)

*Hab. in ramis Tiliae » Osoppo » Italiae bor.* (Tab. IX, fig. 2. — Ex exempl. italicico in Herb. meo.)

Perithecia  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam., sparsa; asci 140-150 = 16-20; sporidia 38-42 = 10-12. A *Loph. Salicinum* differt in primis sporidiis torulosis, apice acutioribus.

**Lophiostoma Salicinum** (Fabr.) Sacc. Syll. Pyr. II, p. 702. *Navicella Salic.* Fabre, Sphér. Vaucl. I, p. 98, fig. 38. *Lophiost. nigricans* Lehm. Loph. p. 115, fig. 49, Berl. et Vogl. Add. Syll. p. 429.

*Hab. in cortice et ligno Salicis in Germania et Gallia* (Tab. IX, fig. 3. — Ex exempl. origin. a Fabre benevole comunicato, et cum *Loph. nigric.* Lehm. (typ.) comparato.)

Perithecia  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam., sparsa; asci 150-160 = 16-18; sporidia 30-35 = 7-9, 5-7-septata, (non 3-5-septata ut dicit cl. Fabre). Valde affinis *L. macrostomum* et potius var. (A var. *septemseptatum* hujus speciei sporidiis acutioribus, loculis omnibus concoloribus distinctum.)

**Lophiostoma scelestum** (C. et Ell.) Sacc. Syll. Pyr. II, p. 697. *Lophiost. microstomum* Cooke et Ell. Grev. IV, p. 179, t. 68, fig. 2. (non Niessl.)

*Hab. in ligno acerino, New Jersey et Helderberg Am. bor.* (Tab. IX, fig. 4. — Ex exempl. origin. in Herb. Sacc.)

Perithecia  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam., sparsa; asci 80-120  $\approx$  16-18; sporidia 22-23  $\approx$  8-10. Dimensiones Cookeanae, etsi eisdem exemplar. sumptae, cum nostris minime convenient. (Cfr. syll. l. c.) Species ostiolis parum (vel subinde minime) compressis, vix inter *Lophiostomiacas* quaerenda et potius generi *Melanommati* adscribenda.

**Lophiostoma Julii** (Fabr.) Sacc. Syll. Pyr. II, p. 702. Berl. Fungi Mor. fasc. II, n. fig. . *Navicella Julii* Fabre Spher. Vaucl. p. 97, fig. 35.

Hab. ad lignum emortuum Mori albae, « Orange, Vaucluse » Galliae (Tab. IX, fig. 5. — Ex exempl. originali).

Perithecia sparsa  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; (raro 1 mm.); asci 160-180  $\approx$  12-18; sporidia 60-70  $\approx$  9-12.

**Lophiostoma Balsamianum** (Ces. et De Not.) Sacc. et Berl. in Berl. Spec. Loph. p. 49, tab. II, fig. 7-12. Sacc. F. it. 242. *Sphaeria excipuliformis* Berk. et Br. Not. Brit. Fungi p. 17 (non Fries) *Loph. excipulif.* Cooke Handb. p. 851. *Loph. excipul.* var. *Balsam.* Rehm. Asc. n. 238. *Navicella Ulmi.* Fabre Spher. Vaucl. p. 58, fig. 37. *Loph. Ulmi* Sacc. Syll. Pyr. II, p. 703. *Loph. Nitschkei* Lehm. Loph. p. 116, fig. 49\* Berl. et Vogl. Add. Syll. p. 429. *Loph. macrostomum* Lehm. Loph. 135, fig. 62 (non Tode) *Sphaeria pileata* Tode Meckl. II, p. 13, fig. 18? *Loph. pileat.* Fuck. Symb. Myc. p. 158? *Navicella pileata* Fabre Sphér. Vaucl. I, p. 97. *Lophiost. pileat.* Sacc. Syll. Pyr. II, p. 701 (saltem p.p.) Karst. Rev. Mon. Asc. Fenn. p. 88.

Hab. in cortice duriore arborum nonnullarum in fere tota Europa. (Tab. IX, fig. 6. — Ex exempl. in *Aesculo Hipp.*, in Herb. Passeriniano).

Perithecia  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., sparsa vel leniter gregaria; asci 180-200  $\approx$  16-20; sporidia 35-40  $\approx$  8-12.

**Lophiostoma excipuliforme** (Fries) Ces. et De Not. Sch. Sfer. p. 45. Sacc. Syll. Pyr. II, p. 700. F. it. tab. 241. Winter Die Pilze II, p. 302 (cum figura) Berl. Fungi Moric. fasc. II, tab. 5. et Sopra Sp. Loph. p. 50, tab. II, fig. 1-6. *Sphaeria excipul.* Fries Obs. myc. I, p. 177, tab. IV. fig. 5, a-c. Syst. Myc. II, p. 469. *Sphaeria Balsam.* De Not. Mier. it. Dec. VII, p. 20, fig. 7. *Sphaeria macrostoma* Curr. Syn. Sympl. Sphaer. p. 321, tab. VIII, fig. 65. *Loph. Balsam.* Sacc. Myc. Ven. Spec. tab. X, fig. 48-51. Syll. Pyren. Vol. II, p. 701 p. p. *Loph. Bommerianum* Sacc. et Roum. in Rev. Myc. 1883, tab. 41, fig. 16. Berl. et Vogl. Add. Syll. p. 259.

Hab. in cortice duriore plantarum plurium in tota Europa (Tab. IX, fig. 7. Ex exempl. in *Moro* in Herb. meo.)

Perithecia sparsa vel subgregaria, maxima,  $\frac{3}{4}$ - $1\frac{1}{3}$  mm. diam., asci 300-330  $\approx$  28-30 (vel 250  $\approx$  45-50, ubi spor. distic.); sporidia 55-65  $\approx$  16-20, subinde et latere compressa (fig. nostr. 7 a.)

**Lophiostoma macrosporum** Speg. in Mich. I, p. 466. Sacc. F. it. 617, Syll. Pyr. II, p. 703.

Hab. in cortice vetusto Quercus pseudo-rubrae prope « Conegliano » It. bor. (Tab. IX, fig. 8. — Ex Fungis italicis l. c.)

Perithecia  $\frac{1}{2}$ - $\frac{1}{2}$  mm. diam., sparsa vel laxe gregaria; asci 300-350  $\approx$  40-50; sporidia 95-100  $\approx$  20. Species mihi videtur praedistincta.

### Species non examinatae, dubiae, vel excludendae<sup>1</sup>

*Lophiostoma argentinum* (Speg.) Sacc. Syll. 690. *L. triseptatum* Peck (Syll. 691). *L. maculans* Fabr. (Syll. 691). *L. fallax* Fabr. (Syll. 691). *L. rhizophilum* (B. et C.) Sacc. Syll. 693 — Mihi dubia. *L. Pinastri* Niessl. (Syll. 695). *L. turritum* C. et P. (Syll. 696). *L. prominens* Peck. (Syll. 696). *L. fibritectum* (Berk.) C. et De Not. (Syll. 696). Species valde ludibunda non certe ad *Loph. biforme* adscrib. ut cl. Lehm. opin. (Cfr. Lehm. p. 113). *Loph. Ericarum* Fabr. (Syll. 697). *L. macrostomellum* (Ces.) Sacc. Syll. 697. Mihi dubia. *L. Characiae* Fabr. (Syll. 698). *L. Brachypodium* Fabr. (Syll. 699). In exempl. origin. *Lophiotrema vagab.* tantum inveni. *L. Crista-Galli* (D. et M.) Sacc. Syll. 699. *L. magnatum* C. et P. (Syll. 701). *L. Gaudefroyi* (Fabr.) Sacc. Syll. 705. *L. bicuspitatum* Cooke (Syll. 707). *L. stenostomum* Ell. et Ev. (Add. Syll. 257). *L. Corni* Pass. (Add. Syll. 257). Exempl. origin. sterile inveni. An idem ac *L. Desmazierii*? *L. floridanum* C. et E. (Add. Syll. 258) *L. roseo-tinctum* Ellis et Ev. (Add. Syll. 259). In exempl. origin. *Leptosph. rubrotinctam* tantum inveni. *Loph. papillatum* Pass. (Add. Syll. 259). In exempl. origin. tantum *Hysterogr. gregario* et *Trematosph. Beccarianam* inveni. *Loph. subcollapseum* Ell. et Ev. (Add. Syll. 426). Ex exempl. typic. nihil eruere potui. *L. demissum* Nitsch. (Add. Syll. 426). Abest in Herb. Nitsch. *L. Spartii* Nitsch. (Add. Syll. 427). Abest in Herb. Nitsch. *L. rexans* Nitsch. (Add. Syll. 427). Non est *Lophiostomaceae* sed *Sphaeriaceae*. *Loph. Starbaeckii* Karst. Hedw. 1887. *L. Langlossii* Ell. et Ev. in Journ. Myc. III, 44 (1887). Est *Melanomma*, suadente quoque cl. Ellis. *L. Montaniense* Ell. et Ev. Journ. Myc. IV, 64 (1888) Potius *Ceriospora* certe *Sphaeriaceae*. *Loph. stenostomum* Ell. et Ev. Bull. Torr. Bot. Club. X, 89 (1888). Exempl. origin. immatur. inveni. *Loph. minimum* Ell. et Ev. Journ. Myc. IV, p. 75. Potius *Melanomma*. Certe non *Lophiostomaceae*. *L. exasperans* Karst. in Herb. Exempl. orig. sterilia inveni. *Lophiostoma intricatum* Lehm. *Loph.* p. 118 fig. 51. (*Lophiosphaera intric.* Berl. et Vogl. Add. Syll. p. 424). Est *Melanopsamma pomiformis* var. In eadem matrice sistit etiam *Lophidiopsis nuculoides* (a cl. Lehm. non visa) a cl. Nitschke in schedulis, sub nomine *Lophiostoma intricatum*, descripta. Species valde dubiae, et verisimiliter, meo sensu, sub nominibus variis nuperioribus nobis plenus nota, sunt sequentes *Loph. ventricosum* (Pers.) Sacc. Syll. 708. *L. Utriculus* (Schw.) Sacc. Syll. 709. *L. truncatum* (Pers.) Sacc. Syll. 709. *L. hysteroides* (Schw.) Sacc. Syll. 709. *L. Thapsi* (Schw.) Sacc. Syll. 709. *L. variabile* (Schw.) Sacc. Syll. 710. *L. abbreviatum* (Schw.) Sacc. Syll. 710; Si exemplaria specierum harum, vel amissi sunt, vel, et hoc probabilius, se-nectute non apta sunt examini microscopico, censeo etiam nomina et diagnoses ex orbe mycologico expellere.

**LOPHIDIUM** Sacc. Mich. I, p. 340 (nec Karst. olim.) Syll. Pyr. II, p. 711. Karst. Rev. Mon. p. 83. *Mytilostoma* Karst. Symb. Myc. Fenn. VII. *Platystomum* Trev. in Bull. Soc. Bot. Belg. XVI.

*Lophidium minus* Ellis in Herb. et in litt. ad me.

Hab. ad ramos decorticatos Nyssae « Newfield » Am. bor. (Tab. X, fig. 1. Ex exempl. originali.)

Perithecia sparsa vel hic inde leviter gregaria,  $\frac{1}{2}$ - $\frac{1}{2}$  mm. diam.; asci 50-60  $\approx$  8; sporidia 14-16  $\approx$  6-8. Ob ostiola vix compressa inter *Lophidium* et *Teichosporam* nutat, et verisimiliter huic aptius adscriendum.

<sup>1</sup> Pro speciebus ad alias seniores relatim confr. *Indicem synonymicum* ad finem totius Familiae adjunctum.

**Lophidium Scorpii** Fabre Spher. Vaucl. I, p. 101, fig. 44. Sacc. Syll. Pyr. II, p. 110.

Hab. *in ramis emort. Genistae Scorpii*, « Vancluse » *Galliae* (Tab. X, fig. 2. — Ex exempl. origin. a cl. Fabr. missus).

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 80-100  $\approx$  8-10; sporidia 16-18  $\approx$  6-7.

**Lophidium aromaticum** Fabre Sphér. Vaucl. I, p. 100, fig. 42. Sacc. Syll. Pyr. II, p. 716. *Lophid. Populi* Fabre l. c. p. 99, fig. 41 Sacc. l. c. p. 713. *Lophid. pseudo-compressum* Sacc. et Berl. in Rev. Myc. 1886 p. 34 (sub. *L. sub-compr.*) et Berl. et Vogl. Add. Syll. p. 260.

Hab. *ad ramos plantarum variarum aromaticarum*, e. g. Thymi vulg., Lavandulae Spicae, Rosmarini offic., Santolinae Chamaec., Inulae graveol., nec non Genistae Scorpii, Rhamni infect., Jasmini fruticantis, Populi nigrae, P. albae *in Gallia* (Vaucluse) et *Algeria*. (Tab. X, fig. 3. — Ex exempl. orig. *Loph. pseudocompr.* cum iis typicis *Lophidii aromatici* minutiose comparato).

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{2}{3}$  (raro amplius) mm. diam.; asci 115-125  $\approx$  12-15; sporidia 22-24  $\approx$  9-11.

**Lophidium compressum** (Pers.) Sacc. Mich. I, p. 340. Syll. Pyr. II, p. 411. *Sphaeria compressa* Persoon Syn. p. 56. *Sph. media* Persoon l. c. p. 54. *Sphaeria angust.* Pers. l. c. p. 55. *Lophiost. compress.* Ces et De Not. Schema p. 45. Sacc. F. it. 233. *Lophiost. angustat.* Fuck. Symb. p. 158. *Lophium Ruborum* Crouan Fin. p. 29. *Lophid. Rubor.* Sacc. Syll. Pyr. II, p. 716. *Sphaeria psilogramma* Dur. et Mont. Fl. Alg. p. 506. *Lophid. psilogr.* Sacc. Syll. Pyr. II, p. 715. *Sphaeria diminuens* Fr. S. M. II, p. 471. (an Pers?) *Lophid. dim.* Sacc. Syll. l. c. p. 714. *Lophid. ambiguum* Fabr. Sphér. Vaucl. I, p. 101. Sacc. Syll. l. c. p. 714. *Lophiost. ramorum* Nitschke in Fuck. Symb. Myc. p. 158. *Lophid. ramorum* Sacc. Syll. l. c. p. 713. *Lophiost. Cronani* Nitsch. in Lehm. Loph. p. 127 fig. 53. *Lophid. Cr.* Berl. et Vogl. Add. Syll. p. 430.

Hab. *in ramis arborum plurium in fere tota Europa et America merid.* (Tab. X, fig. 4. — Ex specimina gallica in *Lonicera*, in Herb. Sacc.)

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., sparsa; asci 100-110  $\approx$  12-16; sporidia 18-24  $\approx$  6-8. Species sporidiorum fabrica satis varians. Sporidia siepe transverse 5-septata sed haud raro in eodem specimine 6-7-septata. Plures formas distinguit cl. Lehmann (*Loph.* p. 120-126) sed nobis videtur variationes notatas, potius aetati vel constitutioni individui tribuendas esse. Nonnullae formae vero *Lophidium* hoc ad *Lophiostoma pseudomacrost.* rite appropinquant.

**Lophidium deflectens** (Karst.) Sacc. Syll. Pyr. II, p. 712, Karst. Rev. Mon. Asc. Fenn. p. 84. *Mytilostoma deflectens* Karst. Synib. ad Myc. Fenn. VI, p. 36. *Mytilost. subcompressum* Karst. Symb. Myc. Fenn. VI, p. 37. *Lophid. sub-compr.* Sacc. Syll. Pyr. II, p. 712. *Lophid. compress.* var. *Lapponicum* Karst. Symb. XVI, p. 150, Rev. Mon. Asc. Fenn. p. 84.

Hab. *in ligno Alni incanae et Salicium*, Mustiala, Sasheika, etc. *in Lapponia*,

(Tab. X, fig. 5. — Ex specim. origin. *Lophid. deflect.* cum iis *L. subcompr.* et *compr.* var. *Loph.* comparato).

Perithecia sparsa vel gregaria,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. diam.; asci 110-120  $\approx$  10; sporidia 22-26  $\approx$  7-9. Probe ut var. *L. compress.* habendum.

**Lophidium nobile** Sacc. Mich. I, p. 340. Syll. Pyr. II, p. 712. *Lophiostoma nobile* Sacc. Mich. I, p. 333, F. it. 232.

Hab. in ramis Lauri nobilis « Vittorio » It. bor. (Tab. X, fig. 6. — Ex specim. original. in Herb. Sacc.)

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; asci 70-80  $\approx$  12-16; sporidia 16-20  $\approx$  6-8. Affine *Loph. compresso* sed satis distinctum.

**Lophidium hygrophilum** Sacc. Mich. I, 340, Syll. Pyr. II, p. 716. *Lophiostoma hygroph.* Sacc. Mich. I, p. 448, F. it. 221.

Hab. in culmis Arundinis Donacis « Padova » It. bor. (Tab. X, fig. 7. — Ex specim. origin. in Herb. Sacc.)

Perithecia laxe gregaria,  $\frac{1}{3}$  mm. diam.; asci 90-110  $\approx$  14-16; sporidia 20-24  $\approx$  10-12. Affine *Loph. compresso*.

**Lophidium gregarium** (Fuck.) Sacc. Mich. I, p. 340, Syll. Pyr. II, p. 713. *Lophiostoma greg.* Fuck. Symb. 158, Sacc. F. it. 230. *Sphaeria Nucula* Fuck. F. rhen. n. 929 (non Fries) *Lophid. curtum* Sacc. Syll. Pyr. II, p. 714, p. p. (Exempl. Bagnis.)

Hab. in cortice duriore Pyri comm. pr. Eberbach Germaniae, « Padova » It. bor. et « Maccarese » It. med. (Tab. XI, fig. 1. — Ex specim. origin. Fuckel.)

Perithecia gregaria, rarius sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 90-120  $\approx$  14-18; sporidia 26-32  $\approx$  9-12.

**Lophidium fenestrale** (Cooke et Ellis) Sacc. Syll. Pyr. II, p. 715. Berlese Fungi Mor. fasc. II, n. 6, fig. 1-11. Berl. et Vogl. Add. Syll. p. 261. *Lophiostoma fenestrale* C. et Ell. Grev. VI, p. 12.

Hab. in ligno Mori « New Jersey Am. bor., et « Padova » It. bor. (Tab. XI, fig. 2. — Ex specim. italicis a me lectis).

Perithecia  $\frac{2}{3}$ -1 mm. diam., sparsa; asci 210-220  $\approx$  24-27; sporidia 58-60  $\approx$  17-19.

**Lophidium pachysporum** Sacc. Syll. Pyr. II, p. 714. *Lophiostoma pachysporum* Sacc. Mich. II, 249, F. it. 23.

Hab. in ligno indurato Abietino « Vittorio » It. bor. (Tab. XI, fig. 3. — Ex specim. origin. in Herb. Sacc.)

Perithecia  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam., sparsa; asci 130-150  $\approx$  18-25; sporidia 36-42  $\approx$  18-20.

**Lophidium thyridioides** Sacc. et Spieg. Mich. I, p. 412, F. it. 357, Syll. Pyr. II, p. 715.

Hab. in ramis decortic. Quercus sessiliflorae « Conegliano » It. bor. (Tab. XI, fig. 4. — Ex specim. origin. in Herb. Sacc.)

Perithecia  $\frac{1}{2}$  mm. diam., laxe gregaria; asci 140-150  $\approx$  28-30; sporidia 35-40  $\approx$  12-14.

### Species non examinatae, exclusae vel omittendae.

*Lophid. tingens* (Ellis) Sacc. Syll. 710. Exemplaria originalia sterilia inveni. *Lophid. Spartii* Fabr. (Syll. 711) Non vidi. *Loph. graphidosporum* (Anzi) Sacc. Syll. 711. Non vidi. Mili spec. incerta videtur. *Lophid. obtectum* (Peck.) Sacc. Syll. 713. Non vidi. *Lophid. fraudolentum* (Dur. et Mont.) Sacc. Syll. 715. Non vidi. *Lophid. Ritro* Pass. Diagn. Funghi Nuovi p. 14 (Exempl. typ. sterilia inveni) *Lophid. inops*. Pass. l. c. (Exempl. orig. sterilia inveni) *Loph. Cotini* Fabr. (Syll. 711) Spec. orig. steril. inveni.

### LOPHIDIOPSIS Berl. nov. genus.

Perithecia plus minus immersa, demum emergentia, sparsa, ostiolo compresso. Asci octospori. Sporidia oblonga, muriformia, hyalina.

**Lophidiopsis nuculoides** (Rehm) Berl. *Lophiost. Nucula* var. *nuculoides* Rehm Asc. n. 481. *Lophiotrema Nucula* var. *nuculoides* Sacc. Syll. Pyr. II, p. 680. *Lophiost. nuculoides* Winter Die Pilze II, p. 306. *Lophidium nuculoides* Sacc. in Berl. et Vogl. Add. Syll. p. 260. *Lophiost. anisomerum* Nitsch. in Lehm. Loph. p. 86, fig. 56. Berl. et Vogl. Add. Syll. p. 427. *Lophiost. brachystomum* Nitsch. in Lehm. Loph. fig. 59. *Lophidium brachyst.* Berl. et Vogl. Add. Syll. p. 430.

Hab. in cortice Populi et Salicis in Germania et Italia (Parma, Pass.) (Tab. XI, fig. 5. — Ex exempl. in Herb. Nitsch.)

Perithecia  $\frac{1}{3}$ - $\frac{3}{4}$  mm. diam.; asci 110-120  $\approx$  12-15; sporidia 22-26  $\approx$  7-9, semper hyalini.

### LOPHIONEMA Sacc. Syll. Pyr. II, p. 717.

**Lophionema vermisporum** (Ellis) Sacc. Syll. Pyr. II, p. 717. *Lophiost. vermispor.* Ellis Torr. Bot. Cl. 1882, p. 12.

Hab. in caule emortuo Oenotherae biennis « New Jersey » Am. bor. (Tab. XI, fig. 6. — Ex specim. original. in Herb. Sacc.)

Perithecia  $\frac{1}{8}$ - $\frac{1}{5}$  mm. diam., gregaria; asci 150-180  $\approx$  12-15; sporidia 120-125  $\approx$  4-5. Ob ostiola subinde cylindracea inter *Lophionema* et *Ophiobolus* medium, sed certe *Lophiostomacea*.

### Species exclusa.

*Lophiostoma* (*Lophionema*) *implexum* Ell. et Ev. Journ. Myc. IV, 75. Est *Ophiobolus* aff. *O. herpotricho* (Ex specim. origin.)

## Index synonymicus totius Familiae

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<i>caulium</i> (Lophiostoma)	.	.	"	12		<i>fallax</i> (Lophiostoma)	.	.	"	16
<i>Characieae</i> (Lophiostoma)	.	.	"	16		<i>fenestrale</i> (Lophidium)	.	.	"	18
<i>chrysosporum</i> (Lophiostoma)	.	.	"	12		<i>fibritectum</i> (Lophiostoma)	.	.	"	16
<i>clavisporum</i> (Lophiostoma)	.	.	"	13		<i>floridanum</i> (Lophiostoma)	.	.	"	16
<i>collinum</i> (Lophiostoma)	.	.	"	13		<i>Fontanesiae</i> (Lophiotrema)	.	.	"	6
<i>compressum</i> (Lophidium)	.	.	"	17		<i>foro Juliensis</i> (Lophiosphaera)	.	.	"	2
<i>conchoides</i> (Lophiostoma)	.	.	"	4		<i>fraudolentum</i> (Lophidium)	.	.	"	19
<i>Cookei</i> (Lophiostoma)	.	.	"	6		<i>Fuckelii</i> (Lophiosphaera)	.	.	"	3

<i>Galeopsidis</i> (Lophiostoma)	.	.	«	12		<i>Mollerianum</i> (Lophiotrema)	.	.	»	8
<i>Gallii</i> (Lophiostoma)	.	.	»	10		<i>Montaniense</i> (Lophiostoma)	.	.	»	16
<i>Gaudrefoyi</i> (Lophiostoma)	.	.	»	16		<i>montellicum</i> (Schizostoma)	.	.	»	2
<i>glacieae</i> (Lophiostoma)	.	.	»	3		<i>Niessleanum</i> (Lophiostoma)	.	.	»	12
<i>glandium</i> (Lophiotrema)	.	.	»	8		<i>nigricans</i> (Lophiostoma)	.	.	»	14
<i>graphidosporum</i> (Lophidium)	.	.	»	19		<i>nigricans</i> (Lophiostoma)	.	.	»	17
<i>gramineum</i> (Lophiostoma)	.	.	«	12		<i>Nitschkei</i> (Lophiostoma)	.	.	»	15
<i>granulosum</i> (Lophiostoma)	.	.	«	9		<i>nobile</i> (Lophidium)	.	.	«	18
<i>granulosum</i> (Lophium)	.	.	»	9		<i>Notarisi</i> (Lophiostoma)	.	.	«	5
<i>gregarium</i> (Lophidium)	.	.	«	18		<i>nucula</i> (Sphaeria)	.	.	»	18
<i>Hederae</i> (Lophiostoma)	.	.	»	6		<i>nucula</i> (Lophiostoma)	.	.	»	8
<i>Helichrysi</i> (Lophiosphaera)	.	.	»	3		<i>nucula</i> (Lophiotrema)	.	.	«	5
<i>heterostoma</i> (Lophiosphaera)	.	.	»	4		<i>nuculinum</i> (Lophiostoma)	.	.	«	5
<i>hungaricum</i> (Lophiotrema)	.	.	«	5		<i>nuculoides</i> (Lophidiopsis)	.	.	»	19
<i>hygrophilum</i> (Lophidium)	.	.	«	18		<i>oblongatum</i> (Lophiostoma)	.	.	«	10
<i>hysterioides</i> (Lophiostoma)	.	.	«	15		<i>obtectum</i> (Lophidium)	.	.	»	19
<i>hysterioides</i> (Lophiotrema)	.	.	«	4		<i>oreophilum</i> (Lophiostoma)	.	.	«	11
<i>implexum</i> (Lophiostoma)	.	.	«	19		<i>Origani</i> (Lophiostoma)	.	.	»	5
<i>inops</i> (Lophidium)	.	.	»	19		<i>pachysporum</i> (Lophidium)	.	.	«	18
<i>insculptum</i> (Lophiostoma)	.	.	»	7		<i>pachytele</i> (Schizostoma)	.	.	»	2
<i>insidiosum</i> (Lophiostoma)	.	.	«	12		<i>pallidum</i> (Lophiotrema)	.	.	»	8
<i>intermedium</i> (Lophiostoma)	.	.	«	12		<i>palustre</i> (Lophiostoma)	.	.	»	11
<i>intricata</i> (Lophiosphaera)	.	.	«	2		<i>papillatum</i> (Lophiostoma)	.	.	»	16
<i>intricatum</i> (Lophiostoma)	.	.	»	16		<i>parvulum</i> (Lophiostoma)	.	.	«	8
<i>isomerum</i> (Lophiostoma)	.	.	«	9		<i>parvulum</i> (Lophiostoma)	.	.	»	10
<i>Julii</i> (Lophiostoma)	.	.	»	15		<i>perpusilla</i> (Lophiosphaera)	.	.	»	4
<i>Langloisii</i> (Lophiostoma)	.	.	«	16		<i>perversum</i> (Lophiostoma)	.	.	»	10
<i>Lappae</i> (Lophiostoma)	.	.	«	12		<i>Phragmitis</i> (Lophiostoma)	.	.	»	13
<i>leucosporum</i> (Lophiotrema)	.	.	«	4		<i>pileata</i> (Sphaeria)	.	.	«	15
<i>lignicola</i> (Lophiosphaera)	.	.	«	3		<i>Pinastri</i> (Lophiostoma)	.	.	»	16
<i>Ligustris</i> (Lophiostoma)	.	.	«	5		<i>Populi</i> (Lophidium)	.	.	»	17
<i>littoralis</i> (Lophiotrema)	.	.	«	7		<i>praemorsum</i> (Lophiotrema)	.	.	«	6
<i>Lonicerae</i> (Lophiotrema)	.	.	«	5		<i>prominen</i> s (Lophiostoma)	.	.	»	13
<i>macrosporum</i> (Lophiostoma)	.	.	«	15		<i>prominen</i> s (Lophiostoma)	.	.	«	16
<i>macrostoma</i> (Sphaeria)	.	.	«	15		<i>Pruni</i> (Lophiostoma)	.	.	«	9
<i>macrostomellum</i> (Lophiostoma)	.	.	«	16		<i>pseudo-compressum</i> (Lophidium)	.	.	»	17
<i>macrostomoides</i> (Lophiostoma)	.	.	«	11		<i>pseudomacrostomum</i> (Lophiostoma)	.	.	»	11
<i>macrostomum</i> (Lophiostoma)	.	.	«	11		<i>psilogranina</i> (Sphaeria)	.	.	»	17
<i>macrostomum</i> (Lophiostoma)	.	.	«	15		<i>pulveracea</i> (Lophiosphaera)	.	.	«	4
<i>macrostomum</i> (Lophiostoma)	.	.	«	14		<i>pusillum</i> (Lophiotrema)	.	.	»	8
<i>maculans</i> (Lophiostoma)	.	.	»	16		<i>quadrinucleatum</i> (Lophiostoma)	.	.	«	8
<i>magnatum</i> (Lophiostoma)	.	.	»	16		<i>quadra</i> . var. <i>caespitosum</i> (Lophiostoma)	.	.	»	9
<i>massarioides</i> (Lophiotrema)	.	.	«	7		<i>quadra</i> . var. <i>dumeti</i> (Lophiostoma)	.	.	«	9
<i>media</i> (Sphaeria)	.	.	«	17		<i>quadra</i> . var. <i>Rosacearin</i> (Lophiostoma)	.	.	«	9
<i>melainon</i> (Lophiostoma)	.	.	»	13		<i>quercreti</i> (Lophiosphaera)	.	.	»	2
<i>mendax</i> (Lophiostoma)	.	.	«	10		<i>radicans</i> (Lophiostoma)	.	.	«	5
<i>Menthae</i> (Lophiostoma)	.	.	»	12		<i>ramorum</i> (Lophiostoma)	.	.	»	17
<i>meridionalis</i> (Lophiostoma)	.	.	»	3		<i>recedens</i> (Lophiotrema)	.	.	»	8
<i>microcarpum</i> (Lophiostoma)	.	.	«	5		<i>Requierii</i> (Lophiostoma)	.	.	»	9
<i>microsporum</i> (Schizostoma)	.	.	«	1		<i>rhizophilum</i> (Lophiostoma)	.	.	»	16
<i>microstomum</i> (Lophiostoma)	.	.	«	14		<i>rhopaloide</i> s (Lophiostoma)	.	.	«	9
<i>minimum</i> (Lophiostoma)	.	.	»	16		<i>Ritro</i> (Lophidium)	.	.	»	19
<i>minus</i> (Lophidium)	.	.	»	16		<i>roseo-tinctum</i> (Lophiostoma)	.	.	»	16
<i>myriocarpum</i> (Lophiotrema)	.	.	»	8		<i>rubicolum</i> (Lophiostoma)	.	.	»	3

<i>rubidum</i> ( <i>Lophiotrema</i> )	.	.	"	5		<i>subcollapsum</i> ( <i>Lophiostoma</i> )	.	.	"	16
<i>Ruborum</i> ( <i>Lophidium</i> )	.	.	"	17		<i>subcorticale</i> ( <i>Lophiostoma</i> )	.	.	"	14
<i>Ruborum</i> ( <i>Lophium</i> )	.	.	"	17		<i>subcorticalis</i> ( <i>Lophiosphaera</i> )	.	.	"	3
<i>ruscicola</i> ( <i>Lophiostoma</i> )	.	.	"	12		<i>Syringae</i> ( <i>Lophiostoma</i> )	.	.	"	10
<i>Rutae</i> ( <i>Rostrella</i> )	.	.	"	12		<i>thyridooides</i> ( <i>Lophidium</i> )	.	.	"	18
<i>Salicum</i> ( <i>Lophiostoma</i> )	.	.	"	14		<i>Thuemianum</i> ( <i>Lophiostoma</i> )	.	.	"	7
<i>Sambuci</i> ( <i>Lophiostoma</i> )	.	.	"	10		<i>tingeas</i> ( <i>Lophidium</i> )	.	.	"	19
<i>sambucivora</i> ( <i>Trematosphaeria</i> )	.	.	"	5		<i>truncatum</i> ( <i>Lophiostoma</i> )	.	.	"	16
<i>Santolinae</i> ( <i>Lophidium</i> )	.	.	"	13		<i>triseptatum</i> ( <i>Lophiostoma</i> )	.	.	"	16
<i>selestum</i> ( <i>Lophiostoma</i> )	.	.	"	14		<i>tuyutense</i> ( <i>Schizostoma</i> )	.	.	"	2
<i>Schizostoma</i> ( <i>Lophiosphaera</i> )	.	.	"	4		<i>turritum</i> ( <i>Lophiostoma</i> )	.	.	"	16
<i>Schomburgkii</i> ( <i>Schizostoma</i> )	.	.	"	2		<i>Ulmi</i> ( <i>Navicella</i> )	.	.	"	15
<i>Scorpii</i> ( <i>Lophidium</i> )	.	.	"	17		<i>Utriculus</i> ( <i>Lophiostoma</i> )	.	.	"	16
<i>Scrophulariae</i> ( <i>Lophiotrema</i> )	.	.	"	5		<i>vagabundum</i> ( <i>Lophiotrema</i> )	.	.	"	5
<i>Scrophulariae</i> ( <i>Lophiotrema</i> )	.	.	"	8		<i>vagab.</i> var <i>radicans</i> . ( <i>Lophiotr.</i> )	.	.	"	5
<i>Sedi</i> ( <i>Lophiotrema</i> )	.	.	"	8		<i>vagans</i> ( <i>Lophiostoma</i> )	.	.	"	11
<i>semilibrum</i> ( <i>Lophiostoma</i> )	.	.	"	11		<i>variabile</i> ( <i>Lophiostoma</i> )	.	.	"	16
<i>semilibrum</i> ( <i>Lophiotrema</i> )	.	.	"	6		<i>ventricosum</i> ( <i>Lophiostoma</i> )	.	.	"	16
<i>sex-nucleatum</i> ( <i>Lophiostoma</i> )	.	.	"	6		<i>vernisporum</i> ( <i>Lophionema</i> )	.	.	"	19
<i>Silai</i> ( <i>Rostrella</i> )	.	.	"	12		<i>vexans</i> ( <i>Lophiostoma</i> )	.	.	"	16
<i>simile</i> ( <i>Lophiostoma</i> )	.	.	"	14		<i>vicinellum</i> ( <i>Schizostoma</i> )	.	.	"	2
<i>simile</i> ( <i>Lophiostoma</i> )	.	.	"	7		<i>vicinissimum</i> ( <i>Schizostoma</i> )	.	.	"	2
<i>simillimum</i> ( <i>Lophiostoma</i> )	.	.	"	12		<i>vicinum</i> ( <i>Schizostoma</i> )	.	.	"	1
<i>Spartii</i> ( <i>Lophidium</i> )	.	.	"	19		<i>Viburni</i> ( <i>Lophiotricha</i> )	.	.	"	8
<i>Spartii</i> ( <i>Lophiostoma</i> )	.	.	"	16		<i>vigheffulensis</i> ( <i>Lophiosphaera</i> )	.	.	"	1
<i>stenogramma</i> ( <i>Lophiotrema</i> )	.	.	"	8		<i>vigheffulense</i> ( <i>Lophiotrema</i> )	.	.	"	4
<i>stenostomum</i> ( <i>Lophiostoma</i> )	.	.	"	16		<i>viridarium</i> ( <i>Lophiostoma</i> )	.	.	"	10
<i>striatum</i> ( <i>Lophiostoma</i> )	.	.	"	10		<i>Winteri</i> [ <i>Lophiotrema</i> ]	.	.	"	6
<i>Stuartii</i> ( <i>Lophiostoma</i> )	.	.	"	12		<i>Verdoni</i> [ <i>Lophiostoma</i> ]	.	.	"	6
<i>subcompressum</i> ( <i>Mytilostoma</i> )	.	.	"	17						

Ad synonyma *Lophiotrem.* *praemorsi* adde *Lophiost.* *dolabriiforme* De Not. Sfer. it. p. 69, tab. 69. Sacc. Syll. Pyr. II, p. 701 (Exempl. originalia cl. Prof. Pirotta benevolè nuper comunic.) *Lophiost.* *Notarisi* Crouan idem ac *Loph.* *insid.* (Cfr. Lehmann *Loph.* p. 69).

### Prospectus Lophiostomacearum omnium

Species <i>Lophiostomacearum</i> in Syllog: descriptae	.	.	.	.	n. 158
"	"	in Additamentis ad Syll.	.	.	" 56
"	"	in Opusculis Addit. nuperioribus (1887-90)	.	.	" 18
					Tot. n. 232

Species <i>Lophiostomac.</i> in Iconibus meis descriptae	.	.	.	.	n. 81
Species exclusae (h. est ad alias seniores relatas)	.	.	.	.	" 84
" <i>dubiae</i>	.	.	.	.	" 22
" <i>non examinatae</i>	.	.	.	.	" 45
					Tot. n. 232

SPHAERIACEAE Fries S. Veg. Sc. p. 381 p.p. Sacc. Syll. Pyr. I, p. 88.

Simplices vel compositae; perithecia a stromatis substantia (ubi stroma adest) distincta, nigrificantia, ostiolo rotundo dehiscentia.

Clavis analytica Sectionum.

A	Sporidia allantoidea (h. e. continua cylindrica saepe curvula)	. . . . .	Allantosporae
B	Sporidia non allantoidea		
a	continua		
§	colorata	. . . . .	Phaeosporae
\$\$	hyalina	. . . . .	Hyalosporae
b	uniseptata ( <i>Didymosporae</i> )		
§	colorata	. . . . .	Phaeodidymae
\$\$	hyalina	. . . . .	Hyalodidymae
c	transverse bi-pluriseptata ( <i>Phragmosporae</i> )		
§	colorata	. . . . .	Phaeophragmiae
\$\$	hyalina	. . . . .	Hyalophragmiae
d	muriformia ( <i>Dictyosporae</i> )		
§	colorata	. . . . .	Phaeodictyae
\$\$	hyalina	. . . . .	Hyalodictyae
e	filiformia	. . . . .	Scolecosporae

Sect. **Phaeophragmiae** <sup>1</sup> Sacc. Syll. Pyr. II, p. 1.

Simplices vel compositae, Sporidia oblonga vel fusoidia, pluriseptata, olivacea, mellea vel fuliginea.

**MASSARIA** De Not. in Giorn. Bot. It. I, 333. Sacc. Syll. Pyr. II, p. 2.

Perithecia tecta, papillata; asci octospori (rite evoluti); sporidia muco obvoluta.

**Massaria foedans** Fr. S. Veg. Sc. p. 359. Fuck. Symb. myc. 152, t. IV, fig. 4. Sacc. Syll. Pyr. II, p. 2. *Sphaeria foedans* Fr. S. M. II, 480. *Sph. amblyospora* Berk. et Br. N. Brit. F. n. 621. *Splanchnonema pustulatum* Corda in Sturni's Deutsch. Fl. II, p. 115, tab. 54.

Hab. *in ramis emortuis Ulmi camp. et U. effusae in Germania, Italia, Fen- nia, Britannia.* (Tab. XII, fig. 1. — Ex Rehm. Asc. n. 437.)

Perithecia  $\frac{1}{2}$  mm. diam., subsparsa; asci 180-210  $\approx$  40-45; sporidia 48-52  $\approx$  20-24.

**Massaria loricata** Tul. Carp. II, 230 Sacc. Syll. Pyr. p. 3. *M. foedans* f. *faginea* Sacc. Mich. I, 40. *M. inquinans* De Not. Atti Congr. Mil. 1844 (nec Tode) *Mass. Fagi* Fuck. Symb. Nachtr. I, p. 14. Sacc. Syll. Pyr. II, p. 6.

<sup>1</sup> Pro clave analyt. generum cfr. Sacc. Syll. I, c.

Hab. in ramis fagineis in Germania, Gallia, Italia, Belgio. (Tab. XII, fig.

2. — Ex *M. foed.* f. *fagin.* in Herb. Sacc.)

Perithecia sparsa  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 130-160  $\approx$  25-30; sporidia 40-45  $\approx$  16-20.  
A *Mass. foed.* sporidiis minoribus, haud raro 4-sept. diff.

**Massaria Aesculi** Tul. Carp. II, 227. Fuck. Symb. Myc. Nachtr. I, p. 302.  
Sacc. Syll. Pyr. II, p. 3. *Sphaeria Pupula* Fr. S. M. II, 484, p. p. *Mass. Pupula*  
Sacc. Syll. Pyr. II, sp. 3, p. p. *Mass. pyxidata* Riess in Fres. Beitr. 61, t. VII,  
fig. 1-6. Sacc. Syll. Pyr. II, p. 4.

Hab. in ramis Aesculi Hippocastani (an etiam Aceris et Philadelphi?) in  
Germania, Gallia, Italia, (Tab. XII, fig. 3. — Ex exempl. in Herb. Sacc.)

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., sparsa; asci 130-170  $\approx$  30-35; sporidia 46-55  $\approx$   
14-16. Sistit status conidicus *Stegosporium Aesculi* conidiis (fig. a) 35-40  $\approx$   
16-20. Fig. b. Peritheciun juvenile cultum.

**Massaria inquinans** (Tode) Fr. Summa V. Sc. 369. Sacc. Syll. Pyr. II,  
p. 5. *Sphaeria inquin.* Tode Meckl. II, p. 17, fig. 85. *Variolaria ellipsosperma*  
Bull. Champ. Fr. I, p. 183, tab. 492. *Mass. Bulliardii* Tul. Sel. Carp. II, p. 236.  
*Sphaeria gigaspora* Desm. XX Not. p. 9 et Crypt. Fr. II, n. 1765 (saltem p.p.)  
*Mass. gigaspora* Ces. et De Not. Sch. p. 43. *Mass. gigaspora* Fuck. Symb. App.  
28, fig. 7. Sacc. Syll. Pyr. II, p. 4. *Mass. callispora* Sacc. Mic. I, p. 40, F. it.  
414. Syll. Pyr. II, p. 5. *Mass. vomitoria* B. et C. North. Am. F. Sacc. Syll.  
Pyr. II, p. 9. (ex spec. origin. !)

Hab. in ramis Aceris in tota Europa et Am. bor. (Tab. XII, fig. 1. — Ex  
specim. *Mass. gigasp.* Libert n. 1108 cum aliis multis europ. et americ. minu-  
tiose comparato).

Perithecia gregaria,  $\frac{2}{3}$ -1 mm. diam.; asci 180-240  $\approx$  60-70; sporidia 90-100  
 $\approx$  20-27, et non raro in eodem perithecio etiam 75-85  $\approx$  20-28. Pulchra et gi-  
gantea species! In *Acero* frequens. Maculis pallidis, nigro-marginatis corticis in-  
terioris et ligni superficie, mox dignoscenda species.

**Massaria Ulmi** Fuck. Symb. 153, tab. VI, fig. 8 Sacc. Syll. Pyr. II, p. 6.

Hab. in ramis Ulmi in Germania, Gallia et Italia. (Tab. XIII, fig. 2. —  
Ex specim. in Herb. Sacc.)

Perithecia gregaria,  $\frac{1}{2}$  mm. diam.; asci 180-220  $\approx$  30-35; sporidia 60-70  $\approx$   
20-25, et subinde 58  $\approx$  24. Affinis (sed distincta) *Mass. inquin.*

**Massaria conspurcata** (Wallr.) Sicc. Syll. Pyr. II, p. 11. Rehm asc. n.  
882. *Sphaeria consp.* Wallr. Fl. Ctypt. II, n. 3775.

Hab. in ramis Pruni Padi in Germania et « Groenendal » in Belgio (Tab.  
XIII, fig. 3. Ex specim. a cl. domi. Rousseau lect. et in Rehm Asc. n. 882 edit.)

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., subgregaria; asci 200  $\approx$  30-35; sporidia 75-80  $\approx$  14-  
17. A *Mass. inquin.*, cui aff., in primis crassitudine valde minori sporidiorum differt.

**Massaria epileuca** Berk. et Curt. North. Am. F. n. 379, Sacc. Syll. Pyr. II,  
p. 7. Berl. Fungi Mor. fasc. IV n. 2, fig. 1-6 *Mass. denigrans* Sacc. Myc. Ven. I, n. 83.

Hab. in ramis Mori albae « Padova » It. bor. et M. rubrae in Am. bor. (Tab. XIV, fig. 4. — Ex speciminibus a me lectis).

Perithecia  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., ostiolo deciduo, peridermio adhaerente, late aperta, gregaria; asci 180-200  $\approx$  22-30 (subinde 50-55 lati); sporidia 70-76  $\approx$  22-26.

**Massaria Platani** Ces. in Rabh. F. Eur. 323, (1842) et in Comm. Soc. Critt. I, p. 217. Sacc. Syll. Pyr. II, p. 7. *Sphaeria Pupula* Fr. Syst. Myc. II, p. 484, p. p. *Mass. atroiniquians* B. et C. North Am. F. n. 978 (ex spec. origin.) Sacc. Syll. Pyr. II, p. 8. *Sphaeria semitecta* B. et C. N. Am. F. n. 936? *Mass. semitecta* Sacc. Syll. Pyr. II, p. 8?

Hab. in ramis Platani in Italia, Gallia, Germania et Am. bor. (Tab. XIV, fig. 2.)

Perithecia subsparsa,  $\frac{3}{4}$  mm. diam.; asci 180-210  $\approx$  40-45; sporidia 58-72  $\approx$  16-19. Status pycnidicus sistit *Hendersonia Desmazieri* peritheciis  $\frac{1}{3}$  mm. diam., sporulis 40-42  $\approx$  18-20 (Cfr. fig. 2, a.)

**Massaria Argus** (B. et Br.) Tul. Carp. II, 227, Fuck. Symb. 152, tab. VI, fig. 6. Sacc. Syll. Pyr. II, p. 7. *Sphaeria Argus* Berk. et Br. Not. Brit. F. n. 626, tab. IX, fig. 9. *Mass. Niessleana* Rehm Asc. n. 645, Sacc. Syll. Pyr. II, p. 7.

Hab. in ramis Betulae albae in Germania. (Tab. XIV, fig. 3. — Ex specim. origin. Berkeleyanis a cl. Cooke benevole comunicatis).

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; asci 200-220  $\approx$  40-44; sporidia 60-64  $\approx$  18-20.

**Massaria macrospora** (Desm.) Sacc. Syll. Pyr. II, p. 10. *Sphaeria macr.* Desm. XVI Not. p. 350. *Mass. epiphegia* Riess in Fres. Beitr. Myk. II, p. 61, tab. VII, fig. 35-40. *Melogramma oligosporum* Berk. et Br. Not. Brit. F. n. 895, tab. XI, fig. 38. *Cucurbitaria macr.* Ces. et De Not. Schema p. 215 Tul. Carp. II, p. 221, tab. XXVI, fig. 6-14.

Hab. in ramis corticat. Fagi in Galia, Britannia, Italia, Germania et Belgio (Tab. XV, fig. 1. — Ex specimin. origin. in Desm. Pl. Crypt. Fr. n. 2056).

Perithecia caespitose collecta,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; asci 180-200  $\approx$  30-35; sporidia 50-58  $\approx$  18-20. Vix *Massaria*! Peritheciorum dispositione *Cucurbitariam* revocans, et sporidiorum fabrica ad *Massariam* adscribenda. Sistit status conidicus, *Coryneum macrosporum* (fig. I, a), conidiis 110-120  $\approx$  16-18.

**Massaria pulchra** Harkn. New. Calif. F. p. 24. Berl. et Vogl. Add. Syll. p. 132.

Hab. in ramis emort. Umbellulariae californicae « Saussalito » Californiae. (Tab. XV, fig. 2. — Ex specim. original. in Herb. Sacc.)

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam. (non 1-1 $\frac{1}{2}$  ut in Hark.), sparsa; asci 160-180  $\approx$  45-55; sporidia 53-60  $\approx$  18-22, Sec. Cl. Harkn. sporidia tandem fuscescunt, ego vero semper hyalina observavi. An potius *Massarina*?

**Massaria marginata** Fuck. Symb. myc. App. II, p. 28, fig. 6. Sacc. Syll. Pyr. II, p. 9.

Hab. in ramos emort. Rosae caninae in « Jura » *Helvetiae et Berberidis vulg.* in It. hor. (Saccardo) (Tab. XV, fig. 3. — Ex specim. a cl. Prof. Sacc. lect.)

Perithecia gregaria,  $\frac{1}{2}$  mm. diam.; asci 160-180  $\approx$  20; sporidia 32-36  $\approx$  12-16, subinde minute muriculata. Sporidiis iunioribus subinde muricul. Exemplaria saccardiana, cum diagnosi fuckel. non perfecte congruunt. An res aliena?

### Species non examinatae dubiae vel excludendae<sup>1</sup>

*Mass. urecolata* (Wallr.) Sacc. Syll. I. Mihi dubia. Sec. Tul. (Carp. II, 231) a *Mass. carpinicola*, non a me visa, « longe aliena » *Mass. Piri* Oith (Syll. 4) Dub. a *Mass. Corni* Non vidi. *Mass. rhypontha* Mont. (Syll. 8) Non vidi. *Mass. Antoniae* Fabr. (Syll. 8) Non vidi. *Mass. stipitata* Fuck. (Syll. 8) Verisimiliter *Leptosphaeria*. *Mass. alpina* Sacc. et Speg. (Syll. 8) item ac *Lophiostoma Desmaziérii* *Mass. Fuckelii* Nitsch. (Syll. 9) Non vidi. *Mass. hirta* (Fr.) Fuck. (Syll. 9) Est *Leptosphaeria*. *Mass. Hoffmannii* Fr. (Syll. 10) Dubia. Verisimiliter *Pseudovalsa*. *Mass. occulta* Rom. (Add. Syll. 131). Non vidi. *Mass. micacea* Kunze (Add. Syll. 132) Exempl. Kunzeana (in Herb. Sacc.) immatura! *Mass. cleistotheca* Harkn. (Add. 131) Non vidi. Si sporidia constanter hyalina, aptius sub *Massarina* inquirenda. Species sequentes ubi non diligentius examinari possint, ex orbe mycetum excludendae videntur. Verisimiliter pleraque ad species notas, vel ad alia genera adscribendae. *Mass. Gerardi* Cooke (Syll. 10) *Mass. squalens* Fr. (Syll. 11) *Mass. crypta* Fr. (Syll. 11) *Mass. protusa* (Fr.) Ces. et De Not. (Sacc. Syll. 11) *M. succinta* (Wallr.) Sacc. Syll. 11. *M. maculata* (Wallr.) Sacc. Syll. 11. *M. circumscissa* (Pers.) Sacc. Syll. 12.

**Caryospora** De Not. Micr. it. Dec. IX (em.) Syll. Pyr. II, p. 122. Cum gen. *Trematosph.* cognatum.

**Caryospora Putaminum** (Schw.) De Not. Micr. l. c. Sacc. Syll. Pyr. II, l.c.

Hab. in putamine putrescente Persicae vulg. in Italia, Germania et America. (Tab. XVI, fig. 1. — Ex specimin. italicis in Herb. Sacc. cum americanis comp.)

Perithecia sparsa,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; asci 260  $\approx$  300  $\approx$  50-60; sporidia 90-100  $\approx$  32-36, 5-septata.

**Caryospora callicarpa** (Curr.) Nitsch. in Fuck. Symb. p. 163, t. 3, fig. 9. Sacc. Syll. Pyr. II, p. 123 (non Mich. I, 331, neque F. it. 202). *Sphaeria callicarpa* Curr. Simpl. Sphaer. p. 321, tab. 58, fig. 62.

Hab. in ligno quercino dejecto in Rhenogovia (Fuck.) et in Britannia (Curr.) (Tab. XVI, fig. 2. — Ex specim. Fuckel. in Fung. Rhen. n. 1813 a cl. Rehm benevole comunicato).

Perithecia sparsa,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; asci 220-250  $\approx$  55-65; sporidia 85-90  $\approx$  37-40. A *C. Putamin.* haud nimis diversa.

**CLYPEOSPHAERIA** Fuck. Symb. p. 117 Sacc. Syll. II, p. 90.

**Clypeosphaeria Notarisii** Fuck. l. c. Sacc. l. c. *Sphaeria clypeiformis* De Not. Erb. Critt. it. I, 47 nec Lacr. *Sph. clypeata* Nees Syst. fig. 355. *Sphaeria*

<sup>1</sup> Species plures hujus generis et sequentium in calce positaas, in posterum studere spero.

*mammillana* Fr. S. M. II, 487? *Clypeosph. mamm.* Lamb. Fl. myc. Belg. II, p. 247? Sacc. Syll. Pyr. II, p. 90? *Clyp. limitata* Fuck. Symb. Myc. p. 117, t. IV, fig. 48 a, b. *Sphaeria Corni* Fuck. Enum. Nass. n. 594, t. I, fig. 15, a, b, c. *Sph. limit.* Pers. ? *Clypeosphaeria euphorbiacea* Pass. et Beltr. F. Sic. novi n. 8. Sacc. Syll. Pyr. II, p. 92. *Clypeosph. Morreni* Sacc. in Rev. Myc. 1884, Berl. et Vogl. Add. Syll. p. 146.

Hab. in ramis, sarmentis, caulis plantarum plurium in tota fere Europa. Omnia specim. *C. limitatae* et *C. mammill.*, observata ab illis original. *C. Notarisii* non distincta. (**Tab. XVII, fig. 1.** Ex specim. origin. Notarisanis).

Perithecia sparsa, (subinde sub eodem stromate bina) vel gregaria,  $\frac{1}{3}$  mm. diam.; asci 100-110  $\approx$  8-9; sporidia 18-22  $\approx$  5-6, saepe e latere parum compressa.

### Species non examinatae vel dubiae<sup>1</sup>

*Clyp. osculanda* (Pr.) Sacc. Syll. 91. *Cl. sabaligera* (B. et C.) Sacc. Syll. 71. *C. Hendersoniae* (Ell.) Sacc. Syll. 81. *C. crenulata* (Berk.) Sacc. Syll. 91. *C. contempta* (D. et M.) Sacc. Syll. 92. *C. Hyperici* Plowr. et Phill. (Syll. 92) *C. aliquanta* (C. et Ell.) Sacc. Syll. 92.

#### **CHAETOSPHAERIA** Tul. Carp. II, p. 252 (em.) Sacc. Syll. Pyr. II, p. 92.

**Chaetosphaeria atrobarba** (C. et Ell.) Sacc. Syll. Pyr. II, p. 96. *Sphaeria atrobarba* C. et E. in Grev. VIII, p. 15.

Hab. in ramis decort. « New Jersey » *Am. bor.* (**Tab. XVII, fig. 2.** — Ex specim. origin. a cl. Cooke benevole comun.)

Perithecia  $\frac{1}{6}$  mm. diam., sparsa; asci 50-60  $\approx$  7-9; sporidia 11-14  $\approx$  3-4. Verisimiliter var. *C. innumerae*. Sistit. stat. conid. (fig. 2, a) *Periconia* sp. hyphis  $\frac{1}{6}$ - $\frac{1}{5}$  mm. alt.; conidiis ovoideis, fuligineis.

**Chaetosphaeria innumera** (B. et Br.) Tul. Carp. II, p. 252 tab. XXXII, fig. 7-9. Sacc. Syll. Pyr. II, p. 95. *Sphaeria innum.* B et Br. Outl. p. 395.

Hab. in ligno quercino in Gallia et Britannia (**Tab. XVII, fig. 3.** a stat. conid. — Ex specim. origin. Berkeleyan.).

Perithecia gregaria; asci 70-80  $\approx$  6-8; sporidia 13-15  $\approx$  4-5; conidia 10-12  $\approx$  4-5.

**Chaetosphaeria parvicapsa** (C.) Sacc. Syll. Pyr. II, p. 94. *Sphaeria parvic.* Cooke Grev. VII, p. 52.

Hab. in lignis « Aiken » *Carol. Am. bor.* (**Tab. XVII, fig. 4.** a st. conid. — Ex specimin. orig. a cl. C. benevole comunic.

Perithecia  $\frac{1}{10}$ - $\frac{1}{8}$  mm. diam., sparsa; asci..... non visi; sporidia 13-15  $\approx$  3-4; conidia spiraliter curvata 18-22  $\approx$  20-24.

**Chaetosphaeria phaeostroma** Fuck. Symb. p. 166, t. II, fig. 40. Sacc. Syll. Pyr. II, p. 93. *Sphaeria phaeostr.* Dur. et Mont. Fl. Alg. I, p. 491, tab. XVI, fig. 2.

Hab. in ramis plantar. variar. in fere tota Europa et *Am. bor.* (**Tab. XVII, fig. 5** a stat. conid. — Ex specimin. anglicis in Plowr. Sphaer. brit. I, n. 62).

Perithecia gregaria, conferta;  $\frac{1}{4}$  mm. diam.; asci 65-75  $\approx$  16-20; sporidia 25-30  $\approx$  7-9; conidia 35  $\approx$  10.

**Chaetosphaeria bibyalina** (B. et Br.) Sacc. Syll. Pyr. II, p. 93. *Sphaeria bibyal.* B. et Br. F. cf. Ceyl. n. 1087. *Chaetosp. fusca* Fuck. Symb. myc. p. 166, Sacc. F. it. 191, Syll. Pyr. II, p. 93.

Hab. in ramis emort. plantar. variar. in Italia, Germania, Gallia, et Ceylon. (Tab. XVII, fig. 6. a st. conid. — Ex specim. a cl. Prof. Sacc. lectis, et cum origin. *C. bibyalinae* minutiose comparatis).

Perithecia gregaria,  $\frac{1}{4}$  mm. diam.; asci 60-70  $\approx$  10-12; sporidia 18-22  $\approx$  6-7; conidia 40-50  $\approx$  5-7; hyphae 100-150  $\approx$  4-5. Verisimiliter ut var. *C. phaeostr.* habenda.

**Chaetosphaeria parvula** Sacc. Fungi Ven. IV, p. 3. F. it. 190. Syll. Pyr. II, p. 94.

Hab. in ramis decorticat. emort. Castaneae vescae « Selva » It. bor. (Tab. XVII, fig. 7. — Ex specim. origin. in Herb. Sacc.)

Perithecia gregaria,  $\frac{1}{9}$ - $\frac{1}{6}$  mm. diam.; asci 55-65  $\approx$  17-20; sporidia 17-20  $\approx$  7-8, semper hyalina. Vix *Chaetosp.* ! Perithecia basi mycelio sterili (*Ozonium* ?), ad superficiem rami copiose serpente, cincta. Conidia et hyphae fertiles nulla.

### Species non examinatae vel dubiae

*C. phaeostromoides* (Peck.) Sacc. Syll. 93. *C. cupulifera* (B. et Br.) Sacc. Syll. 94. *C. leonina* (C. et P.) Sacc. Syll. 54. *C. xanthotricha* (B. et C.) Sacc. Syll. 95. *C. flavo-compta* (B. et C.) Sacc. Syll. 95. *C. pannicola* (B. et C.) Sacc. 95. *C. callimorpha* (Mont.) Sacc. Syll. 95. Exempl. Libertiana sterilia inveni! *C. calostroma* (Desm.) Sacc. *C. italicica* Niessl. (Syll. 96) non vidi. *C. pileo-ferruginea* Cr. (Syll. 96) et *C. Angelicae* Cr. (Syll. 96) nulli dubiae. *C. ornata* Harkn. (Add. Syll. 146) *C. Sacardiana* Schulz. (Add. 146) *C. peziziformis* Schulz. (Add. 146).

**OHLERIA** Fuck. Symb. p. 163. Sacc. Syll. Pyr. II, p. 96.

**Ohleria rugulosa** Fuck. Symb. p. 164. Sacc. Syll. II, p. 97. *Ohleria queretaria* Fabre Sphér. Vaucl. I, p. 93. Sacc. Syll. I. c. *Ohleria Ulmi* Fabr. Sphér. Vaucl. I, p. 93, fig. 31. Sacc. Syll. I. c. *Ohleria obducens* Phillips Fungi Brit. exicc. (non Wint. ut e diagnosi videtur).

Hab. in ligno Carpini, Quercus, Ulmi, Juglandis etc. in Italia, Gallia, Germania et Am. bor. (Tab. XVII, fig. 8. — Ex exempl. italicis in Juglande regia in Herb. Saccard.)

Perithecia gregaria,  $\frac{1}{3}$  mm. diam.; asci 75-85  $\approx$  6-8; sporidiorum articula 6-9  $\approx$  3-4.

### Species non examinatae

*Ohleria modesta* Fuck. (Sacc. Syll. 67) *O. obducens* Wint. (Syll. 100).

**CERIOSPORA** Niessl Not. Pyr. p. 9. Sacc. Syll. Pyr. II, p. 184.

Sporidia colorata, demum triseptata, utrinque mucronata.

Species sporidiis hyalinis separavi, et sub genere *Ceriosporella* Berl. censendas esse puto.

**Ceriospora xantha** Sacc. Mich. I, 36, F. it. tab. 188 Syll. Pyr. II, p. 185.

Hab. in sarmentis Clematidis Vitalbae « Conegliano » Ital. bor. (Tab. XVIII, fig. 1. — Ex specim. orig.)

Perithecia  $\frac{1}{3}$  mm. d; asci 150-12; sporidia 40-42  $\approx$  7-9.

**Ceriospora Dubyi** Niessl N. k. Pyr. p. 9. Sacc. Mich. I, 36, F. it. t. 187 Syll. Pyr. II, pag. 185. Winter Pilze II, pag. 575. *Sphaeria ceriospora* Duby in Klotzsch-Rabih. Herb. myc. Edit. I, N. 1937. *Sphaerella ceriospora* Ces. et De-Not. Schenia sfer. it. n. 63. Auersw. Mycol. Eur. p. 14. fig. 57, *Hindersonia Lupuli* Moug. et Lev. in Ann. sc. nat. III Ser. tom. V, pag. 289.

Hab. in sarmentis Humuli Lupuli putrescentibus in Germania, Gallia et Italia.

(Tab. XVIII, fig. 2. — Ex specim. orig.)

Perithecia  $\frac{1}{3}$  mm. d., gregaria; asci 100-110  $\approx$  17-19; sporidia 35-40  $\approx$  8-10, (sinc app.) verisimiliter matura triseptata intentiusque colorata.

**Ceriospora montaniensis** (Ellis) Berl. *Lophiostoma montaniense* Ellis in Journ. of. Myc. IV p. 64.

Hab. in sarmentis Clematidis ligusticifoliae, « Montana » Amer. Bor. (Tab. XVIII, fig. 3 — Ex specim. orig. a cl. Ellis benevole comunicatis.)

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. d; asci 95-115  $\approx$  10-14; sporidia 18-22  $\approx$  7-10; sine appendicibus, quae metiuntur 8-10  $\approx$  1.

Verisimiliter hoc adscribenda *Ceriospora bonaerensis* Spieg. Fungi Arg. Pug. I, pag. 183, Sacc. Syll. Pyr II, pag. 185, quae sporidiis « chlorinis » gaudet.

**REBENTISCHIA** Karst. Myc. Fenn. II, 14 et 97, Sacc. Syll. Pyr. II pag. 12. Winter Pilze II p. 407.

**Rebentischia Massalongi** Sacc. Consp. Gen. Pyr. 12, Syll. Pyr. II, p. 12 *Sphaeria Massalongi* Mont. Syll. p. 237. Mass. in Flora 1885 p. 241, fig. 8-9.

*Rebentischia pomiformis* Karst. Myc. Fenn. II, p. 97, Sacc. Syll. I. c. p. 12. *Rebentischia Typhae* H. Fab. Spher. Vaucl. p. 85 fig. 22, Sacc. Syll. Pyr. II, p. 12.

Hab. ad truncorum corticem Amygdali et Aceris in Italia, et Fennia. (Tab. XVIII fig. 4. — Ex specim. orig. *R. pomiformis* a claro Karst: benevole comunicatis.)

Perithecia gregaria vel sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 80-110  $\approx$  18-20; sporidia 32-35  $\approx$  8-10. (cum cauda), cauda 8-12  $\approx$  2.

**Rebentischia unicaudata** (B. et Br) Sacc. Consp. gen Pyr. p. 12, Syll. Pyr. II, p. 12. Rehm. Ascom. n. 241. Winter Pilze II p. 407 et 439, *Sphaeria unicaudata* B. et Br. Brit. F. n. 886, tab. XI, f. 31, *Sphaeria Panacis Reliq.* Moug. in Roum. F. Gall. exsiccatis n. 789. An *Sph. Panacis* Fr.?

Hab. in sarmenis Clematis Vitalbae emortuis, in *Britannia, Germania, Austria* (Tab. XVIII, fig. 5. — Ex specim. Niesslean. in Herb. Sacc.)

Perithecia  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 80-100  $\approx$  16-17; sporidia 21-23  $\approx$  6-7; cauda 9-10  $\approx$  2.

### Species exclusae

*Rebentischia ranella* (B. et Rav.) Sacc. Syll. I. c. p. 13, est *Anthostomella* sporiidiis ovoideis, fuligineis, inferne in caudam longam septatam attenuatis praedita. (Ex specim. origin.)

**HEPTAMERIA** Rehm et Thuem. Myc. Lusit. n. 292, Sacc. Syll. Pyr. II p. 88. *Verlotia* H. Fabr. Sph. Vaucl. I, p. 108.

**Heptameria uncinata** (Niessl) Rehm Ascomyc. fasc. XV, n. 735. Berl. et Vogl. Add. Syll. p. 145. *Leptosphaeria uncinata* Niessl in litt. *Lept. obesa* Rehm Ascomyc. Loik. pag. 54, n. 70.

Hab. ad canes siccos Artemisiae campestris in horto « Esvterházyano Kaposvár (Somogy) Loika » et prope « Brünn » in *Germania*. (Tab. XIX, fig. 1. — Ex spec. orig. in Rehm Asc. n. 735.)

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 110-120  $\approx$  12-16; sporidia 42-45  $\approx$  5-7. *H. obesae* similis sed minor.

**Heptameria obesa** (Dur. et Mont. Sacc. Syll. Pyr. II, p. 88. *Leptosphaeria obesa* Sacc. Fungi ital. t. 284. *Sphaeria obesa* Dur et Mont. Exc. Sc. d' Alg. p. 526, t. 27, f. 3. *Sphaeria mesoedema* B. et C. North. Am. Fungi n. 955. *Hemptam. mesoed.* Sacc. Syll. Pyr. II, p. 89. *Verlotia Helichrysi* Fabre Sph. Vaucl. p. 108, f. 59; *Hept. Hel.* Sacc. Syll. I. c. p. 89. *Heptameria elegans* Rehm et Thuem. in Thuem. Contr. Myc. Lusit. n. 292. Sacc. Syll. I. c. p. 89.

Hab. in caulis Eupatorii, Anthirrhini, Scabiosae, Cirsii, in ramulis emortuis Helichrysi etc. in *Algeria, Lusitania, Gallia, Italia et Am. Bor.* (Ex spec. orig. *H. mesoedematis* a cl. Cooke benevole comunicatis. (Tab. XIX, fig. 2 ubi lapsu legitur *H. mesoedema* qua: eadem est ac *H. obesae* (ut facile synonymia demonstrat sed posterior.)

Perithecia gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 140-150  $\approx$  12-16; sporidia 58-62  $\approx$  9-12.

**MELANOMMA** Nits. et Fuck. Symb. myc. p. 159, Sicc. Syll. Pyr. II, p. 98, Winter Pilze II, p. 221, Briard Flor. cryt. Aube p. 307, Lambotte Flor. myc. Belg. I, Suppl. p. 153, Brunaud Contr. Flor. myc. Ouest p. 173, *Sphaeria* Karsten Myc. Fenn. II, p. 13 (Hall. p. p.) Mon. Asc. Fenn. p. 46. *Trematosphaeria* Fuck. Symb. myc. p. 161, Sacc. Syll. I. c. p. 115. Winter I. c. p. 261, Briard. I. c. p. 308, Lambotte I. c. p. 155.

**Melanomma Pulviscula** (Karst.) Berl. et Vogl. Add. Syll. p. 147, *Sphaeria pulviscula* Karst. in Hedw 1884, n. 4, p. 4, Rev. Asc. Fenn. p. 47.

Hab. in ligno pineo ad Mustiala Fenniae (Tab. xix, fig. 8. — Ex Spec. orig. a claro Karst. benevole comunic.)

Peritecia gregaria,  $\frac{1}{4}$  mm. d.; asci 45-55  $\approx$  6-8; sporidia 10-12  $\approx$  3-3,5 videatur varietas *Rhyncosphaeriae ceratophorae* sed ostiolo semper brevi, prudentius ad genus *Melanomma* adscribendum.

**Melanomma Commonsii** Ellis et Ev. in Prooc. Acad. Nat. Sc. Philad. 1890, p. 239.

Hab. parasitice in stromatibus Hypoxyli Sassafras in Am. Bor. (Tab. xix, fig. 4. — Ex Spec. orig. a claro Ellis benevole comunic.)

Perithecia gregaria, minuta,  $\frac{1}{10}$ - $\frac{1}{7}$  mm. d.; asci 30-45  $\approx$  8-10; sporidia 12-14  $\approx$  4-5.

**Melanomma Sylvanum** Sacc. et Spieg. Mich. I, p. 403 Sacc. F. It. Tab. 340, Syll. Pyr. II, p. 103. *Mel. Terebinthi* Fabre Sph. Vaucl. II, p. 54, f. 29. Sacc. Syll. l. c. addenda Vol. II, p. LVIII.

Hab. in ligno indurato Abietis et Pistaciae Terebinthi in Italia et Gallia (Tab. xix, fig. 5. — Ex spec. orig. *M. Sylvani* iis *M. Ter.* minutim comparatis.)

Perithecia sparsa vel gregaria,  $\frac{1}{4}$  mm. d.; asci 60-90  $\approx$  6-8; sporidia 14-18  $\approx$  4-5.

**M. fuscidulum** Sacc. Mich. I, p. 450, Fungi ital. p. 294, Syll. Pyr. II, p. 99, Lambotte Flor. Myc. Belg. I, Suppl. p. 153. Brunaud Contr. Flor. Myc. Ouest p. 174.

Hab. in ramis truncoque Sambuci, Erythrinae in Italia, Gallia, Britannia, Belgio et Am. Austr. (Tab. xix, fig. 6. — Ex spec. orig. in Herb. Sacc.)

Perithecia sparsa vel gregaria,  $\frac{1}{4}$  mm. d.; asci 50-55  $\approx$  7-8; sporidia 12-14  $\approx$  3-4.

**Melanomma minutum** Berl. *Trematosphaeria minuta* Berl. Exc. Myc. Frioul. p. 11, Tab. IX fig. 6.

Hab. in ramis Salicis cinereae « Osoppo » agri forojuliensis Ital. Bor. (Tab. xx, fig. 2. — Ex specim. orig.)

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{2}$  mm. d.; asci 50-60  $\approx$  10-12; sporidia 15-18  $\approx$  5-7.

**Melanomma erraticolum** (Karst.) Berl. et Vogl. Add. Syll. p. 148 — *Sphaeria erraticula* Karst. Rev. Asc. Fenn. p. 48.

Hab. in cortice Aceris platanoidis in insula « Runsala » Fenniae (Tab. xx, fig. 2. — Ex specim. orig. a claro Karst. benevole comunic.)

Perithecia sparsa, rugosa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 80-90  $\approx$  7-9; sporidia 15-18  $\approx$  4-5.

**Melanomma Pulvis-pyrius** (Pers.) Fuck. Symb. myc. p. 160. Sacc. Syll. Pyr. II, p. 160. Winter Pilze II, p. 240, Brunaud Flor. Myc. Ouest. p. 173, Briard Flor. Crypt. Aube p. 307, *Sphaeria Pulvis-pyrius* Pers. Syn. Fung. p. 86, *Sphaeria myriocarpa* Berk. North Amer. Fungi. *Sph. conglobata* Curr. in Trans. linn. Soc. vol. 22 p. 317, f. 22. *Sph. pulvis-pyrius* Karst. Myc. Fenn. II, p. 88, Rev. Asc. Fenn., p. 57, *Sph. obducens* De Not. Sfer. it. p. 65, tab. LXVI, *Melanomma obducens* Sacc. Syll. Pyr. 2, p. 99, *Sph. Lenarsii* West. Bull. Soc. Bot. Belg. V

n. 1, *Melan. Lenarsii* Sacc. Mic. I, d. 344, Syll. Pyr. II, p. 105, Lamb. Flor. myc. Belg. II, p. 303, *Melan. Julii* Fabre Spher. Vaucl. I, q. 91, f. 27, Sacc. Syll. Pyr. p. 105, *Melan. Mori* Fabre l. c. p. 91, fig. 28. Sacc. Syll. l. c. p. 105 Berl. Fungi Mor. App. p. 17. *Leptosphaeria Ericaë* Malbr. in Berl. et Vogl. Add. Syll. p. 414. *Sphaeria Ericaë* Fr?

Hab. ad ligna corticesque arborum plurimum in fere tota Europa et Amer. Bor. Formas plures, quae in Sylloge distinguuntur, examinavi et a typo non satis differre agnovi (Tab. xx, fig. 3. — Ex specim. Winterianis in Herb. Sacc.)

Perithecia dense gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  8-10; sporidia 13-17  $\approx$  4-6, in hoc specimine, sed haud raro 18-22  $\approx$  5-6.

**Melanomma Rhododendri** Rehm Ascom. n. 186, Sacc. Syll. Pyr. II, p. 109, Winter Pilze II, p. 242, *Cucurbitaria Rhododendri* Niessl Beitr. p. 50. Tab. IV f. 32.

Hab. ad ramulos siecos Rhododendri ferruginei et R. hirsuti in Tyrolia, Italia, Styria et Belgio e regione qua ultima misit clara Dom. Rousseau. Valde affine Mel. *Pulvere-pyr.* sed ad *Leptosphaerian* vergit et verisimiliter in eo genere haud male positum (Tab. xx fig. 4. — Ex specim. orig.)

Perithecia dense gregaria,  $\frac{1}{2}$  mm. d.; asci 120-130  $\approx$  7-9; sporidia 17-20  $\approx$  5-7.

**Melanomma alpinum** Speg. Mich. I, p. 460, Sacc. Fungi it. tab. 637, Syll. Pyr. II, p. 106. Mel. *Hippophaës* Fabre Spher. Vaucl. p. 22 fig. 30. Sacc. Syll. Pyr. II, p. 108.

Hab. ad ramulos emortuos Rhamni saxatilis, Rh. Frangulae, Hippophaës rhamnoidis et Populi in alpinis prope « Belluno » Ital. Bor. (Tab. xx, fig. 5. Ex specim. orig.)

Perithecia dense gregaria,  $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  8-9; sporidia 18-20  $\approx$  4-5.

Species habitu *Botryosphaeriae* simillima. An hoc adscribenda Sp. *Hippophaës* Sollen?

**Melanomma disjectum** (Karst.) Sacc. Mich. I, p. 344, Syll. Pyr. II, p. 103, *Sphaeria disjecta* Karst. Myc. Fenn. II, p. 92. Rev. asc. Fenn. p. 49. *Sph. lonicerina* Karst. Myc. Fenn. II, p. 87. Rev. Asc. Fenn. p. 49. Melan. *lonic.* Sacc. Syll. Pyr. II, p. 108.

Hab. in ligno pineo et lonicerino prope « Mustiala » Fenniae (Tab. xx, fig. 6. — Ex specim. orig. a claro Karst. benevole comunic.) Valde affine et verisimiliter mera varietas Mel. *Holmskjoeldii* a quo differt peritheciis sparsis, sporiisque vix minoribus.

Perithecia gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 80-90  $\approx$  10-12; sporidia 20-22  $\approx$  4-5. Nonnullis notis ad *Leptosphaeriam* vergit.

**Melanomma Holmskjoeldii** (Karst.) Sacc. Syll. Pyr. p. 101, *Sphaeria Holmsk.* Karst. Myc. Fenn. II, p. 91, Rev. Asc. fenn. p. 49. Melan. *Mussatianum* Sacc. et R. in Rev. Myc. 1883 p. 40, fig. 11. Berl. et Vogl. Add. Syll. p. 147.

Hab. in ligno Sorbi Aucupariae prope « Mustiala » Fenniae (Tab. xxi, fig. 1.

Ex spec. orig. quae benevole cl. Karst. comunicavit.) Ad *Leptosphaeriam* vergit et sporidiorum forma magnitudineque *L. Doliolo* valde affine.

Perithecia gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$  12; sporidia 22-26  $\approx$  5.

**Melanomma cinereum** (Karst.) Sacc. Syll. Pyr. II p. 108. *Sphaeria cinerea* Karst. Myc. Fenn. II p. 91, vix Fuck. Rev. Asc. fenn. p. 49. *Sphaeria torcens* Karst. in Herb.

Hab. in ramis emortuis Salicis in Fennia (Tab. xxI, fig. 2. — Ex specim. originalibus).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 100-120  $\approx$  12-14; sporidia 22-25  $\approx$  7-9.

**Melanomma medium** Sacc. et Speg. Mich. I p. 402, Sacc. Fungi it. tab. 104. *Trematosphaeria pertusella* Sacc. Mich. p. 451. Syll. Pyr. II, p. 116.

Hab. in ramis Aceris Negundinis et Tamaricis anglicae in Italia (Conegliano) et Gallia.

Perithecia gregaria, vel sparsa,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  8-11; sporidia 20-24  $\approx$  6-8. (Tab. xxI, fig. 3 — Ex specim. orig.).

**Melanomma sanguinarium** (Karst.) Sacc. Syll. Pyr. II, p. 110. *Sphaeria sanguinaria* Karst. Myc. fenn. II, p. 90. Rev. Asc. fenn. p. 49. *Melanomma phaeum* Rehm Beitr. Ascom. n. 46, Hedw. 1882, p. 120, Sacc. Syll. Pyr. II. p. 111. *Trematosphaeria phaea* Winter Pilze II, p. 270 *Melanomma effugiens* Berl. et Vogl. Add. Syll. p. 148, *Sphaeria effugiens* Karst. Rev. Asc. fenn. p. 48. *Lophiosoma aequivocum* Ellis Journ. of Myc. III, p. 118.

Hab. in cortice et ligno, Sorbi, Ulmi, Alni etc. in Fennia Tyrolia et Amer. Bor. (Tab. xxI, fig. 4. — Ex specim. orig.)

Perithecia laxe gregaria, vel sparsa,  $\frac{1}{2}$ - $\frac{1}{3}$  mm. d., basi mycelio luteo-fusco cinta, ostiolis rufulis; asci 110-120  $\approx$  9-11; sporidia 16-18  $\approx$  6-7. Medium inter *M. Aspegrenii* et *M. medium* — Sporidia saepius triseptata et rarissime (ut in *M. medio*) quadriseptata.

**Melanomma subdispersum** (Karst.) Berl. et Vogl. Add. Syll. p. 148. *Sphaeria subdispersa* Karst. in Hedwigia 1884 p. 57.

Hab. ad corticem Betulae albae in Siberia occidentali prope « Saniarova » (Tab. xxI, fig. 5. — Ex specim. orig.)

Perithecia sparsa, mycelio basi cincta,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  10-14; sporidia 20-23  $\approx$  5-6. Affine *M. dubios* sed minus.

**Melanomma Grauati** Fabre Spher. Vaucl. II, p. 54, fig. 30 Sacc. Syll. Pyr. Add. vol. II, p. LVIII. *Melanomma Requienii* Fabre Spher. Vaucl. I p. 92 f.29. Sacc. Syll. Pyr. II p. 107.

Hab. ad ramos emortuos Rhamni infectorii et Punicae Granati in Gallia (Tab. xxI, fig. 6. — Ex specim. orig.)

**Melanomma buellioides** (Rehm) Berl. *Trematosphaeria buellioides* Rehm. Beitr. Augsburg. Pilzflora p. 78. Berl. et Vogl. Add. Syll. p. 150.

Hab. in assere Pineo subrefuso prope « Augsburg » Germaniae (Tab. xxii, fig. 1. — Ex specim. orig.)

Perithecia  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d., asci 70-80  $\approx$  12-15; sporidia 18-20  $\approx$  6-8.

**Melanomma Aspegrenii** (Fries) Fuck. Symb. Myc. p. 159, Tab. III, fig. 29, Sacc. Syll. Pyr. II, p. 100. Briard. Flor. Crypt. Aube, p. 307. *Sphaeria Aspegrenii* Fries in Kunze Myc. Heft. II, p. 40 — Syst. Myc. II, p. 455 — Karst. Rev. Asc. p. 48.

Hab. ad ramos truncosque Pruni et Betulae in Suecia, Britannia, Germania, Gallia et Fennia (Tab. xxii, fig. 2. — Ex specim. gallicis Briardianis in Herb. Sacc.)

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  8-10; sporidia 12-14  $\approx$  5-6.

**Melanomma minimum** (Ellis) Berl. *Lophiostoma minimum* Ellis Journ. of Myc. IV, p. 75.

Hab. ad lignum cariosum « Louisiana » Amer. Bor. (Tab. xxii, fig. 3. — Ex specim. orig.)

Perithecia subsparsa,  $\frac{1}{3}$ - $\frac{1}{4}$  mm. d.; asci 70-80  $\approx$  10-12; sporidia 13-16  $\approx$  6-8.

**Melanomma surrectum** (Cooke) Berl. *Sphaeria surrecta* Cooke in Grevill. V p. 110. Sacc. Syll. Pyr. II, p. 114.

Hab. in ligno pineo in Britannia et populeo in Amer. Bor. (Tab. xxii, fig. 4. — Ex spec. orig. a claro Cooke benevolo comunicatis.)

Perithecia plus minusve immersa, haud raro tantum basi ligno insculpta,  $\frac{1}{3}$  mm. d.; asci 100-115  $\approx$  14-16; sporidia 20-23  $\approx$  7-8.

**Melanomma pertusum** (Pers) Berl. *Sphaeria pertusa* Pers. Syn. Fung. p. 13, Karst. Myc. fenn. II, p. 90 Rev. Asc. fenn. p. 46. — *Trematosphaeria pertusa* Fuck. Symb. Myc. p. 162 Sacc. Syll. Pyr. II, p. 115 - Berl. Fungi Moricole f. I, n. 6, fig. 8-11. Winter Pilze II, p. 269, Briard Florul. Crypt. Aube p. 308. *Trematosphaeria errabunda* Fabre Spher. Vaucl. I, p. 94 f. 32. Sacc. Syll. Pyr. II, p. 119.

Hab. in ligno vetusto arborum variarum in Italia, Germania, Gallia, Britannia, Suecia, Fennia et Belgio haud raro (Tab. xxii, fig. 5. — Ex specim. in Moro in Herb. meo cum aliis multis e regionibus variis minutim comparato).

Perithecia sparsa vel dense gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 80-100  $\approx$  10-14; sporidia 25-30  $\approx$  6-8.

**Var. anglicum** (Plowright) Berl. *Trematosphaeria pertusa* Var. *anglica* Plowright in Herb. *Trematosphaeria anglica* Sacc. Syll. Pyr. II, p. 115.

Hab. in ligno exsiccati Fraxini « King's Lynn » Britanniae (Tab. xxii, fig. 6. — Ex specim. orig. in Herb. Sacc.)

Perithecia gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 120-130  $\approx$  12-15; sporidia 28-30  $\approx$  7-8 (non 30-38  $\approx$  8 ut in Syll.)

**Melanomma dubiosum** Sacc. Myc. I, p. 303, Fungi ital. p. 337. Syll. Pyr. II, p. 106. *Trematosphaeria Vindelicorum* Rehm Asc. n. 479 Sacc. Syll. Pyr. II, p. 122.

Hab. in trunculis emortuis Globulariae cordifoliae, Medicaginis lupulinae et ad asseres pineos in Italia Bor. et Germania (Tab. XXIII, fig. 1. — Ex specim. orig. in Herb. Sacc. cum iis *T. Viudel.* orig. minutim comparatis).

Perithecia gregaria vel sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  18-20; sporidia primo hyalina dein lutescentia demum opace fuliginea, loculis extimis pallidioribus, 28-32  $\approx$  9-11. Affine *M. pertuso* praeципue var. anglico.

**Melanomma nuclearium** (De Not.) Berl. *Sphaeria nuclearia* De Not. Mier. ital. Dec. IX p. 462 f. IV - *Trematosph. nuclearia* Sacc. Syll. Pyr. II, p. 121. *Hypoxylon nucitena* Berk. et Curt. North Amer. Fungi 844 *Melanomma?* *nucitena* Sacc. Syll. Pyr. II p. 103.

Hab. in putaminibus Olearum et in nucibus Caryae in Italia et Am. Bor. (Tab. XXIII, fig. 2. — Ex specim. orig. Berkeleyanis cum iis Notarianis minutim comparatis).

Perithecia gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 40-45  $\approx$  8-12; sporidia 14-16  $\approx$  5-6.

**Melan. nuclearium** var. **maius** Berl. *Melan. Minervae* Fabre Spher. Vaucl. p. 91 f. 26. Sacc. Syll. Pyr. II, p. 105.

Hab. ad putamina Olearum et Amygdali communis nec non Pruni Armeniacae « Vaucluse » Galliae (Tab. XXIII, fig. 3. — Ex specim. orig. a claro Fabre benevole comunicatis).

Perithecia sparsa  $\frac{1}{2}$  mm. d.; asci 80-100  $\approx$  16; sporidia 22-24  $\approx$  7-9.

**Melanomma Passeriniatum** Berl. *Trematosph. Beccariana* Pass. Flor. Bogos p. 145, Berl. et Vogl. Add. Syll. p. 417. nec Ces.

Hab. in corticibus vetustis prope « Kerem » Abyssiniae (Beccari) (Tab. XXIII, fig. 4. — Ex specim. orig. a claro Passerini communicatis).

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 75-90  $\approx$  12-15; sporidia 20-23  $\approx$  6-7.

**Melanomma pleurostomum** (Rehm.) Berl. *Tremat. pleurostoma* Rehm. Ascom. n. 530. Sacc. Syll. Pyr. II, p. 119. Winter Pilze II, p. 272.

Hab. ad asserem riparium (pineum?) prope « Augsburg » Germaniae (Tab. XXIII, fig. 5. — Ex Rehm. Asc. n. 530).

Perithecia subsparsa,  $\frac{1}{4}$  mm. d.; asci 150-170  $\approx$  10-12; sporidia 25-28  $\approx$  8.

**Melanomma congestum** (Cooke) Berl. *Psilosphaeria congesta* Cooke Austr. Fungi p. 57 *Tremat. congesta* Berl. et Vogl. Add. Syll. p. 150.

Hab. in corticibus « Twofold Bay » in Australia (Tab. XXIII fig. 6. — Ex specim. orig. a claro Cooke benevole comunic.).

Perithecia conferta,  $\frac{1}{3}$  mm. d.; saepe subcylindrica.  $\frac{1}{2}$  mm. alta; asci 140-160  $\approx$  18-20; sporidia 30-40  $\approx$  10. Sporidiis fabrica *M. pleurost.* affine sed maius.

**Melanomma tornatum** Sacc. et Paol. Fungi Malacenses p. 23 tab. 6 fig. 4.

Hab. in culmis Bambusae? « Malacca » (Tab. XXIV, fig. 1. — Ex specim. orig. a claro Sacc. benevole comunic.).

Perithecia subsparsa,  $\frac{1}{2}$ - $\frac{2}{4}$  mm. d.; asci 140-150  $\approx$  12-14; sporidia 40-52  $\approx$  8 (sine appendiculis) Ad *Leptosph.* vergit.

**Melanomma Vesuvius** (B. et Br.) Berl. *Sphaeria Vesuvius* B. et Br. Ceyl. Fungi n. 1107. *Trematosph. Vesuvius* Sacc. Syll. Pyr. II, p. 119 (**Tab. xxiv**, fig. 2. — Ex specim. orig.)

Hab. *in ligno putri* « Ceylon. »

Perithecia sparsa, 1-1½ mm. d.; asci.... (jam resorpti); sporidia 45-48 = 9-11. Magnitudine atque forma peritheciorum species praedistincta.

**Melanomma Langloisii** (Ellis) Berl. *Lophiostoma Langl.* Ellis in Journ. of Myc. III, p. 44.

Hab. *in ligno emortuo Salicis nigrae* « Point a' la Hache » *Am. Bor.* (**Tab. xxiv**, fig. 3. — Ex specim. orig. a claro Ellis benevole comunic.)

Perithecia sparsa, ½ mm. d.; asci 150-170 = 18-22; sporidia 36-42 = 10.

**Melanomma hydrophilum** (Karst.) *Sphaeria hydrophila* Karst. Symb. Myc. IV p. 187. Rev. Ascom fenn. p. 46 *Trematosph. hydrophila* Sacc. Syll. Pyr. II, p. 119.

Hab. *in ligno indurato vetusto Pini aqua interdum suffuso prope Mustiala* *Fenniae* (**Tab. xxiv**, fig. 4. — Ex specim. orig. a claro Karst. benevole comunic.)

Perithecia sparsa ⅓ mm. d.; asci 160-170 = 14-17; sporidia 35-38 = 8-10.

**Melanomma clypeatum** (Sacc. et Paol.) Berl. *Trematosph. clypeata* Sacc. et Paol. Fungi Malac. p. 23 tab. 6. f. 5.

Hab. *in corticibus* « Malicca » (**Tab. xxiv**, fig. 5. — Ex specim. orig. a claro Saccardo benevole comunic.)

Perithecia sparsa, 1 mm. d.; asci 105-115 = 10-12; sporidia 18-22 = 7-8.

**Melanomma Olearum** (Karst.) Berl. *Sph. Olearum* Cast. Catal. Plant. Mars. p. 116 - Desmaz. 13 vol. 1844 p. 352 - *Caryospora Olearum* Sacc. Mich. I, p. 451 - Fungi ital. tab. 204 - *Tremat. Olearum* Sacc. Syll. Pyr. II, p. 118. Winter Pilze II, p. 271 Berl. Pug. funghi Fior. p. 13 tab. II fig. 8 *Tremat. melina* Rab. Fungi Eur. n. 1019 et 1835 (non B. et Br.) Winter in Hedw. 1885 p. 102 Pilze II, p. 271.

Hab. *ad corticem Oleae europeae in Italia, Austria, Gallia, Germania* (**Tab. xxiv**, fig. 6. — Ex specim. ital. cum iis Rab. comparatis).

Perithecia sparsa vel gregaria, ½ mm. d.; asci 170-190 = 20-25; sporidia 28-35 = 11-13.

**Melanomma Passerinii** (Rab.) Berl. *Kalmusia Passerinii* Rab. in Hedw. 1877 p. 18 - *Tremat. obtusula* Berl. Fungi Moric. fasc. V, n. 12 tab. 26 fig. 6-10. Champignons du Frioul. p. 8.

Hab. *in ligno Quercus, Mori et Tiliae prope Parma Vittorio, Osoppo* *Ital. Bor.* (**Tab. xxv**, fig. 1. — Ex specim. orig.)

Perithecia ⅓ mm. d.; sparsa; ascii 110-120 = 18-20; sporidia 32-34 = 10-12.

**Melanomma mundum** (Pass.) Berl. *Kalmusia munda* Pass. Diagn. funghi nuovi IV p. 5.

Hab. *in ligno Quercus* « Parma » *Ital. Bor.* (**Tab. xxv**, fig. 2. — Ex specim. orig. a claro Pass. benevole comunic.)

Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci 160-175  $\approx$  18-24; sporidia 38-42  $\approx$  14-16.

**Melanomma pachyaseum** (C. et Ell.) Berl. *Sphaeria pach.* C. et E. New Jersey Fungi in Grevill. IV, 179, t. 68 f. 1.

Hab. *in ligno querino decorato* New Jersey Am. bor. (Tab. xxv, fig. 3.) — Ex specim. orig. a cloro Cooke benevole comunic.)

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 100-110  $\approx$  12-14; sporidia 28-30  $\approx$  4-5. — Cur *pachyascum*? Dimensiones Cookeanas sporidiorum valde nostris majores. Ad *Leptosphaeriam* vergit.

**Melanomma seminis** (Cooke et Haik) Berl. et Vogl. Add. Syll. p. 149. *Sphaeria seminis* C. et H. in Grev. XIII p. 18.

Hab. *in ramis Baccharidis in California* (Tab. xxv, fig. 4. — Ex specim. orig.)

Perithecia gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 115-125  $\approx$  12; sporidia 46-56  $\approx$  6. Ad *Leptosphaeriam* vergit et genus hoc minime abhorret.

**Melanomma callicarpum** (Sacc.) Berl. *Caryospora callicarpa* Sacc. Mich. I p. 331, et 451. Fungi ital. t. 202. (nec Curr.) *Conisphaeria peniophora* Cooke Grev. VIII p. 119. *Trematosph. pen.* Sacc. Syll. Pyr. II p. 117, *Melanomma hydrelum* Rehm. Asc. n. 640, et in Hedw. 1882 p. 82. *Trem. hydrela* Sacc. Syll. Pyr. II, p. 117. Winter Pilze II, p. 272.

Hab. *in lignis atque corticibus in Ital. bor. Germania, Arduenisi et America bor.* (Tab. xxv, fig. 5. — Ex specim. Libertianis cum iis orig. *T. hydrelae* et *T. peniophorae* minutim comparatis.)

Perithecia gregaria, vel sparsa  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 220-240  $\approx$  30-35; sporidia 85-95  $\approx$  16-20.

**Melanomma lichenopsis** (Mass.) Berl. *Sphaeria lichenopsis* Mass. in Flora 1856 p. 242, tab. III, f. 6-7. *Caryospora Lichenop.* Sacc. Fungi, ital. tab. 203.

Hab. *in cortice adhuc vegeto Cerasorum juniorum in agro Veronensi et Tarvisino Ital. bor.* (Tab. xxvi, fig. 1. — Ex specim. Saccardianis).

Perithecia subsparsa,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 160-180  $\approx$  18-24; sporidia 40-42  $\approx$  11-13.

**Melanomma megalosporum** Rehm Ascom. n. 536, (non *Sphaeria megal.* De Not quae ex autopsia specim. orig. est *Teichospora*). *Trematosph. megalospora* Winter Pilze II p. 272. *Melanomma Britzelmayrianum* Rehm Asc. n. 588 et in Hedw. 1881 p. 51 (ut var. *Mel. megalospori*) *Tremat. Britzel.* Sacc. Syll. Pyr. II, p. 120 Winter Pilze II, p. 261 et 273. *Leptosphaeria Saccardiana* Fabre Spher. Vaucl. I, p. 80 Sacc. Syll. Pyr. II, p. 42 *Requienella Saccardiana* Fabre Spher. Vaucl. II, p. 56 fig. 35. *Trematosph. Alaterni* Sacc. Syll. Pyr. Add. Vol. II, p. LX. *Requienella Alaterni* Fabre I. c. II, p. 56 f. 33.

Hab. *in ramis emortuis Pini, Berberidis, Rhamni Alaterni et Crataegi Oxyacanthae in Germania et Gallia* (Tab. xxvi, fig. 2. — Ex specim. Rehmianis Asc. n. 536 a cum Fabreanis minutim comparatis.)

Perithecia sparsa vel gregaria,  $\frac{1}{2}$  mm. d.; ascii 150-180  $\approx$  20-30; (Subinde 120  $\approx$  30; sporidia 40-50  $\approx$  12-14.

### Species e genere excludendae

*Melanomma rile* (Fries) Fuck. est *Teichospora* - *Melanomma obtusum* Sacc. est *Leptosphaeria vagabunda* - *Melanomma Orni* (De Not.) Sacc. est *Clypeosphaeria Notarisii* forma *lignicola*. Clarus De Not. in schedulis herbarii specii huic allatis observat: Albinis *Sphaeriae clypeiformi* - *Melanomma Jenynsii* (B. et Br.) Sacc. Sec. specim. orig. est *Lophiotrema* non bene evolutum et verisimiliter a *L. praemorsa* minime distinguendum - *Melanomma oblitterans* (B. et Br.) Sacc. est *Zignoella* nam in specim. orig. sporidia semper hyalina observavi. *Melanomma Catillus* Sacc. est *Amphisphaeria*, sporidia uniseptata, biguttata - *Melanomma Stevensonii* est potius *Physalospora*, perithecia 175 mm. d.; sporidia 2-3 guttulata 4-6  $\approx$  1,5-2 hyalina; ascii 30-40  $\approx$  5-6 (Ex specim. orig.) - *Melanomma Echfeldtii* (Ellis et Sacc.) est *Didymella*; sporidia senecte luscescent et tam subinde plasma in partes 4 dividitur (Ex specim. orig.) *Melanomma conjugatum* est *Leptosphaeria* (Ex specim. orig.) *Melan. Moutouianum* Sacc. est *Zignoella* nam sporidia tantum senecte luscescent. (Ex specim. orig.) *Melan. Caricae* Pass. est potius *Leptosph.* (Ex spec. orig.) - *Melan. Porothelia* (B. et C.) Sacc. est *Leptosphaeria* (Ex sp. orig.) *Melanomma cyrillicum* (B. et C.) Sacc. est *Zignoella* (Ex specim. orig.) *Melanomma brachytete* (B. et Br.) Sacc. est *Amphisphaeria* (Ex specim. orig.) *Melanomma loepophagum* (Tul.) Sacc. certe non est. *Melanomma*; in specim. orig. nihil inveni sphaeriaceum. Species probe ex orbe mycetum expellenda. *Melanomma helicophilum* (Cooke) Sacc. Ex specim. orig. nihil eruere potui. Certe ut videtur species non ad *Melanomma* pertinet - *Melanomma acutum* est *Lophiostoma simillimum*. Sporidiis appendiculatis gaudet! - *Melanomma ceratophorum*, *M. longicolle*, *M. Cesatianum* ad genus novum (*Rhynchosphaeria*) pertinent - *Melanomma hirtulum*, *M. pilosellum*, *M. cauescens*, *M. hispidulum*, *M. cucurbitarioides*, *M. juniperinum* ad genus novum (*Chaetomastia*) pertinent - *Melanomma Briardianum* Sacc. est *Stuartella* (Ex specim. orig.) - *Trematosphaeria callispora* (De Not.) Sacc. est *Lophiotrema mussarioides* (Ex specim. orig.) *Trem. melina* (B. et Br.) Sacc. est *Clypeosphaeria Notarisii* forma *lignicola* (Ex spec. orig.) *Tremat. megaspora* (De Not.) Sacc. est *Teichospora* - *Tremat. Pseudo-Bombarda* (Mont.) Sacc. est *Lasiosphaeria* (Ex spec. orig.) *Trematosph. arancosa* (Quel.) Sacc. Est verisimiliter *Lasiosphaeria*. - *Trem. princeps* (Fabr.) Sacc. Est *Teichospora* (Ex spec. orig.).

### Species non examinatae vel dubiae (¹)

*Melanomma Heufleri* (Auersw.) Sacc. *M. sparsum* Fuck. *Mel. subsparsum* Fuck. *M. Cubonium* Sacc. *M. Gibellianum* Sacc. *M. Verrucaria* (Fries) Sacc. *M. Lumbottianum* Sacc. *M. Hendersoniae* (Fuck.) Sacc. *M. rhodomelum* (Fries) Sacc. *M. globigerum* (Mougeot et Letz.) Sacc. *M. Beccarianum* (Ces.) Sacc. *M. occidentale* (Ellis) Sacc. *M. Solorinae* (Anzi) Sacc. *M. callispernum* Speg. *M. porphyrostomum* (Kunze) Berl. *M. decipiens* (De Not.) Berl. *M. seminudum* (Pers.) Berl. *M. applanatum* (Ouds.) Berl. *M. Fritzii* Schrot. *M. pyrenogenum* (Dur. et Mont.) Sacc. *M. Buixi* Fabre *M. Martinianum* (Linds.) Sacc. *M. crypticum* (Karst.) Sacc. *M. taphrinoides* Sacc. *M. populinum* Schultz. et Sacc. *M. sulcatum* (Ellis) Berl. et Vogl. *M. fallax* Mouton *M. australe* Speg. *M. fuscianum* Speg. *M. nigrisepillum* Speg. *M. lophiostomoides* (Speg.) Berl. *M. hendersonoides* (Ouds.) Berl. *M. proctatum* (Karst.) Berl. *M. fissum* Fuck.

### CHAETOMASTIA Sacc. Syll. Pyr. II, p. 113, (ut subgenus).

Perithecia superficialia vel vix ligno infossa, setosa. Ascii octospori. Sporidia transverse pluriseptata, colorata.

(¹) Harum specierum exemplaria pro maxima parte temporis injuria interciderunt vel tam parca copia a collectoribus inventa sunt, ita ut tantum ad diagnosis concinnandam adhiberi potuerint.

**Chaetomastia pilosella** (Karst.) Berl. *Sphaeria pilosella* Karst. Myc. fenn. II, p. 96 — *Melanomma pilosellum* Karst. Symb. Myc. fenn. II, p. 246. Sacc. Syll. Pyr. II, p. 114.

Hab. in ligno Coryli Avellanae putrescente in insula « Rumsala » Fenniae (Tab. xxvi, fig. 3. — Ex specim. orig. a claro Karst. benevole comunic.)

Perithecia gregaria, rarius sparsa, asci  $\frac{1}{5}$ - $\frac{1}{7}$  mm. d.; asci 50-60  $\approx$  8-9; sporidia 9-12  $\approx$  3-4.

**Chaetomastia hispidula** (Sacc.) Berl. *Melanomma hispidulum* Sacc. Mich. I, p. 450. Fungi it. Tab. 295. Syll. Pyr. II, p. 114. *Melanomma setosum* Mouton in Bul. Soc. Bot. Belg. 1886 p. 153 Berl. et Vogl. Add. Syll. p. 416.

Hab. in ligno putrescente « Selva » Ital. Bor. et « Beaufays » Belgii (Tab. xxvi, fig. 4. — Ex specim. orig. a claro Saccardo benevole comunic.)

Perithecia laxe gregaria,  $\frac{1}{7}$ - $\frac{1}{8}$  mm. d.; asci 40-45  $\approx$  12-15; sporidia 10-13  $\approx$  5-6; triseptata et raro 5-septata aut muriformia. Affinis *C. pilosellae*.

**Chaetomastia hirtula** (Karst.) Berl. *Sphaeria hirtula* Karst. Myc. fenn. II, p. 96. Rev. Mon. Asc. fenn. p. 96 *Melanomma hirtulum* Sacc. Syll. Pyr. II, p. 113.

Hab. in sarmentis putrescentibus Rubi idaei « Mustiala » Fenniae (Tab. xxvi, fig. 5. — Ex specim. orig.)

Perithecia sparsa vel subgregaria  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 90-100  $\approx$  12, tetraspori (subinde 6-spori); sporidia 20-22  $\approx$  6-7.

**Chaetomastia canescens** (Speg.) Berl. *Melanomma canescens* Speg. in Sacc. Mich. I, p. 460. Fungi it. tab. 638. Sacc. Syll. Pyr. II, p. 114.

Hab. ad asseres abietinos putrescentes « Conegliano » Ital. bor. (Tab. xxvi, fig. 6.)

Perithecia  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 70-90  $\approx$  15-18; sporidia 20-25  $\approx$  10.

**Chaetomastia juniperina** (Karst.) Berl. *Sphaeria juniperina* Karst. Myc. fenn. II, p. 89. Rev. Asc. fenn. p. 96. *Melan. junip.* Sacc. Mich. I, p. 344. Syll. Pyr. II, p. 110.

Hab. in ligno Juniperi communis prope « Mustiala » Fenniae (Tab. xxv, fig. 7. — Ex specim. orig.)

Perithecia sparsa  $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  8-10; sporidia 16-22  $\approx$  5-7.

**Chaetomastia aculeata** (Mout.) Berl. *Melanomma aculeatum* Mout. in Bull. Soc. R. Bot. Belg. 1886, p. 154 Berl. et Vogl. Add. Syll. p. 416.

Hab. in ligno putri « Beaufays » Belgii (Tab. xxxiv, fig. 6. — Ex spec. orig. Exemplaria sero habui et tantum in tabula hac delineare potui.)

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{8}$  mm. d.; asci 50  $\approx$  9; sporidia 18-20  $\approx$  4-6.

### Species non examinata

*Chaetomastia cucurbitariooides* (Speg.) Berl.

### Species e genere excludenda

*Melanomma (Chaetomastia) pleiosporum* Mouton ad genus *Capronia* pertinet nam sporidiis muriformibus gaudet.

**STUARTELLA** Fabre Spher. Vaucl. p. 95. Sacc. Syll. Pyr. II, p. 123.

Perithecia carbonacea, simplicia, plus minusve irregulariter, profunde et radiatim tri-quadrисulcata. Asci octospori. Sporidia colorata, transverse pluriseptata.

**Stuartella formosa** Fabre Spher. Vaucl. p. 95, fig. 34, Sacc. Syll. Pyr. II, p. 123. *Tramatosphaeria irregularis* Fabre l. c. II, p. 53 fig. 27. Sacc. Syll. Pyr. Add. II, p. LV. *Melanomma Briardianum* Sacc. Fungi Gall. Ser. V n. 2213 Berl. et Vogl. Add. Syll. p. 147.

Hab. in ligno denudato ramorum Salicis, Ribis, Lonicerae Xylostei, Quercus Illicis prope « Troyes » et « Vaucluse » Galiae et « Vigheffio » prope « Parma » Ital. bor. (Tab. xxvn, fig. 1. — Ex specim. Passerinianis cum gallicis Briardianis comparatis.)

Perithecia nunc sparsa nunc gregaria et confluentia,  $\frac{1}{2}$  mm. d.; asci 150-160  $\approx$  14-16; sporidia 38-42  $\approx$  8-10. .

**RHYNCHOSPHAERIA** Sacc. Syll. Pyr. II, p. 112 (ut subgenus).

Perithecia superficialia, carbonacea, in ostiolum plus minusve elongatum producta. Asci octospori. Sporidia transverse pluriseptata, colorata.

**Rhynchosphaeria longicollis** Sacc. Mich. I, p. 449. Fungi ital. p. 293. Syll. Pyr. II, p. 113. Penzig. Funghi agrum. p. 417. (sub *Melanomma*)

Hab. in ramis decorticatis Citri Limonii « Vittorio » Ital. bor. (Tab. xxvII, fig. 2. — Ex specim. orig. a claro Sacc. benevole comunic.)

Perithecia gregaria,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 80-90  $\approx$  12-15; sporidia 18-20  $\approx$  6-7.

**Rhynchosphaeria ceratophora** Sacc. et Speg. Mich. I, p. 303. Fungi it. p. 339. Syll. Pyr. II. p. 113. (sub *Melanomma* sect. *Rhync.*)

Hab. in culmis Arundinis Donacis emortuis « Conegliano » Ital. bor. (Tab. xxvIII, fig. 1. — Ex specim. orig.)

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 35-45  $\approx$  6; sporidia 10-13  $\approx$  3.

**Rhynchosphaeria Irpex** (Berk. et Br.) Berl. *Diatrype Irpex* B. et Br. Fungi of Ceyl. n. 1083. *Melogramma Irpex* Sacc. Syll. Pyr. II p. 145.

Hab. in ligno putri « Ceylon » (Tab. xxvn, fig. 3. — Ex specim. orig.)

Perithecia dense gregaria, 1 mm. d.; ostiolis usque 5 mm. longis, cylindraceis praedita; asci 120-150  $\approx$  14-18; sporidia 60-70  $\approx$  8.

Magnitudine atque fabrica sporidiorum *Melogrammati spinif.* valde approxinatur, sed peritheciis simplicibus ab eo genere longe recedit. Certe eximi species, plura decimatra extensa. An cum *Melogr. spinif.* byologice cognata?

### Species e genere *Rhynchosphaeria* excludendae

*Melanomma acutum* Sacc. est *Lophiostoma simillimum* sporidiis appendiculatis praeditum, ostiole crasse cylindraceo vel compresse, rimose dehiscente. *Melanomma Cesatianum* invenire frustra conatus sum.

**SPORORMIA** De Not. Micr. ital. Decas V n. 6, Auersw. in Hedw. t. VII p. 65 et 137 Fuck. Symb. Myc. p. 242 Karst. Myc. fenn. II Pyr. p. 110. Rev. Asc. fenn. p. 46 Hans. Fungi coproph. Dan. p. 314. Pir. Mon. Spor. p. 141. Sacc. Syll. Pyr. II p. 123. Niessl Spororm. p. 95. Winter Pilze II p. 180. *Hormospora* De Not. nec Breb.

Perithecia plerumque fimicola, sparsa, vel gregaria, seminimeresa vel superficialia, laevia, atra. Asci octospori paraphysati. Paraphyses filiformes, ramosae, plerumque septulatae, subinde denum evanidae. Sporidia plurilocularia, semper hyalino circudata, loculis demum secedentibus colorata.

**Sporormia Notarisii** Carest. in Rab. Fung. eur. n. 976 b. Auers. in Hedw. 1868, p. 69, tab. I fig. 1, Karst. Myc. fenn. II p. 110, Zopf Fungi fimic. p. 127, Pir. Mon. Spor. p. 153 Sacc. Syll. Pyr. II p. 125. *Spor. promiscua* Car. in Rab. F. E. n. 1236. Pir. Mon. Spor. p. 147. Sacc. Syll. Pyr. II, p. 125.

Hab. in fimo Tetraonum in Italia, Fennia, Britannia et Germania (Tab. **xxviii**, fig. 2. — Ex specim. orig.)

Perithecia sparsa,  $\frac{1}{5}$  mm. d.; asci 115-125  $\approx$  14; sporidia 24-28  $\approx$  4-5.

**Sporormia leporina** Niessl Spororm. p. 96, Sacc. Syll. Pyr. II p. 124, Winter Pilze II, p. 181.

Hab. in fimo leporino et Caviae in Moravia et Argentina Amer. austr. (Tab. **xxviii**, fig. 3. — Ex specim. orig. a claro Niessl benevole comunic.)

Perithecia plus minusve gregaria,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 110-120  $\approx$  12-14; sporidia 26-30  $\approx$  5-6. Affinis Sp. *minimae* a qua distinguitur praecipue forma ascorum atque dispositione sporidiorum. An satis?

**Sporormia minima** Auersw. in Hedw. 1878 p. 661. Fuck. Symb. Myc. p. 242. Karst. Myc. fenn. II p. 110, Rev. Mon. fenn. p. 46. Sacc. Syll. Pyr. II p. 125. Hans. Fungi copr. Dan. p. 318. Pir. Mon. Spor. p. 151. Winter Pilze II p. 181. Briard flor. crypt. Aub. p. 308. Brun. Flor. Myc. Ouest. Pyr. p. 176. *Hormospora stercoris* Desm. Crypt. Franc. III Ed. n. 97 (saltem pro parte) *Sporormia stercoris* Pir. Mon. Spor. p. 142 tab. VI, fig. 16-17. Sacc. Syll. Pyr. II p. 124. *Sporormia evallata* Pass. Diagn. funghi nuovi IV p. 5. *Spor. Roumegueri* Zimm. in Roum. Rev. Myc. 1879, p. 58 Sacc. Syll. Pyr. II, p. 129.

Hab. in fimo vaccino, equino, ovino, Cuniculorum (*raro in ligno putri*) in fere tota Europa, America, Borneo etc. (Tab. **xxviii**, fig. 4. — Ex specim. ital. in Herb. meo cum aliis permultis e regionibus variis comparatis).

Perithecia  $\frac{1}{10}$ - $\frac{1}{8}$  mm. d., sparsa; asci 60-70  $\approx$  12-14; sporidia 27-30  $\approx$  5-6. — Peritheciorum minutie verisimiliter non ducenda est ad *Sphaeriam stercoris* De C. quae sine dubio ad speciem majorem adscribenda.

**Sporormia pulchella** Hans. Fungi sim. dan p. 114 n. 18 t. IX f. 23-25. Sacc. Syll. Pyr. II p. 124. Pir. Mon. Spor. p. 145. Wint. Pilze II p. 181.

Hab. *in fimo vaccino, pecorino et Cuniculorum in Sealandia, Moravia et Belgio* (Tab. xxviii, fig. 5. — Ex specim. Marchalianis in Herb. Sacc.)

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 130-150  $\approx$  16; sporidia 30-32  $\approx$  6-8.

**Sporormia leptosphaerioides** Speg. Mich. I p. 459. Sacc. Fungi it. tab. 613. Syll. Pyr. II p. 128. March. Champ. Copr. Belg. p. 21. *Sporormia leporina* var. *Pruni speciosae* Kunze Fungi Sel. Exsicc. n. 273.

Hab. *in fimo ovino in Ital. bor. Belgio et Germania (in putam. Pruni)* (Tab. xxviii, fig. 6. — Ex specim. Kunzeanis).

Perithecia sparsa,  $\frac{1}{5}-\frac{1}{3}$  mm. d.; asci 110-120  $\approx$  16-18; sporidia 32-35  $\approx$  5-6.

**Sporormia ambigua** Niessl Art. Spor. p. 97. Sacc. Syll. Pyr. II p. 125. Wint. Pilze II p. 182. March. Champ. Copr. Belg. p. 26. Speg. F. Fueg. p. 90. Fungi Pat. p. 47.

Hab. *in fimo leporino, equino, vaccino et Caviae in Germania, Italia, Belgio et Amer. austr.* (Tab. xxxviii, fig. 7. — Ex specim. orig. in Rehm. Asc. n. 988.)

Perithecia plus minusve gregaria,  $\frac{1}{3}$  mm. d.; asci 130-140  $\approx$  18-22; sporidia 38-42  $\approx$  7-9. Inter *Sp. minimam* et *Sp. intermedium* formâ sporidiorum sita.

**Sporormia lageniformis** Fuck. Symb. Myc. p. 242. Speg. Fungi Copr. Ven. p. 231. Fungi Pat. p. 47. Pir. Mon. Spor. p. 154. Murch. Champ. Copr. Belg. p. 21. Sacc. Syll. Pyr. II p. 125. Winter Pilze II p. 182.

Hab. *in fimo equino, ovino, caprino et leporino in Germania, Italia, Belgio et Amer. austr.* (Tab. xxix, fig. 1. — Ex specim. Marchalianis in Herb. Sacc.)

Perithecia subgregaria,  $\frac{1}{3}$  mm. d.; asci 130-140  $\approx$  22-24; sporidia 40-46  $\approx$  8-10.

**Sporormia intermedia** Auersw. in Hedw. 1868, VII, p. 67 tab. I fig. 4. Fuck. Symb. Myc. p. 142. Karst. Myc. fenn. II p. 110. Rev. Asc. fenn. p. 46. Pir. Mon. Spor. p. 149. Sacc. Syll. Pyr. II p. 126. Winter Pilze II p. 182. Speg. Fungi Copr. Ven. p. 230. Fungi Fueg. p. 90. Fungi Pat. p. 47.

Hab. *in fimo equino, vaccino, Cuniculorum, leporino, anserino, ovino, caprino in tota fere Europa et Am. austr.* (Tab. xxix, fig. 2. — Ex specim. orig. a claro Niessl benevole comunicatis).

Perithecia sparsa, vel approximata,  $\frac{1}{4}-\frac{1}{3}$  mm. d.; asci 160-180  $\approx$  25-30; sporidia 52-56  $\approx$  10-13.

**Sporormia intermedia** Var. **lignicola** Ph. et Plowr. Grev. VI, p. 29, t. 94, f. 7. Sacc. Syll. Pyr. II p. 128 (ut species) *Sporormia ulmicola* Pass. et Winter in Hedw. XIII p. 52 tab. I fig. 2 Pir. Mon. Spor. p. 146.

Hab. *in ligno putri Fraxini, Ulmi, et Quercus in Britannia Italia et Gallia.* (Tab. xxix, fig. 3. — Ex specim. in Herb. Sacc.)

Perithecia sparsa, vel dense gregaria,  $\frac{1}{3}-\frac{1}{2}$  mm. d.; asci 130-150  $\approx$  20-25; sporidia 50-54  $\approx$  9-12,

**Sporormia grandispora** Speg. Fungi Copr. Ven. p. 230. Fungi Fuegiani p. 91. Pir. Mon. Spor. p. 152. Sacc. Syll. Pyr. II p. 128. *Hormospora ovina* Desm. Crypt. Fr. III n. 98. (saltem pro parte) Pir. Mon. Spor. p. 161 (p. p.) Sacc. Syll. Pyr. II p. 127.

Hab. *in fimo ovino et vaccino in Ital. bor. Gallia, et Amer. austr.* (Tab. **xxix**, fig. 4. — Ex specim. orig. in Herb. Sacc.)

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 160-180  $\approx$  30-35; sporidia 58-64  $\approx$  11-13.

**Sporormia megalospora** Auersw. in Hedw. 1868 p. 68 tab. I, fig. 5. Pir. Mon. Spor. p. 151. Sacc. Syll. Pyr. II, p. 126. Winter Pilze II p. 183. Speg. Fungi. Fueg. p. 91. Fungi Pat. p. 48.

Hab. *in fimo vaccino, equino et Capreolorum in Germania, Austria, Britannia et America.* (Tab. **xxix**, fig. 5. — Ex specim. Niessleanis).

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 180-190  $\approx$  35-40; sporidia 72-80  $\approx$  16-18.

**Sporormia Spegazzinii** Pir. Mon. Spor. p. 147 Sacc. Syll. Pyr. II, p. 127. *Sporormia gigaspora* Speg. Fungi Copr. Ven. p. 231.

Hab. *in fimo ovino in Ital. bor. et Germania socia Spor. gigantea et cum ea saepe ab auctoribus cumfusa* (Tab. **xxx**, fig. 1. — Exspecim. orig. in Herb. Sacc. a claro Piotta benevole comunic.)

Perithecia sparsa, fere  $\frac{1}{2}$  mm.d.; asci 280-300  $\approx$  38-40; sporidia 85-110  $\approx$  18-22.

**Sporormia gigantea** Hans. Fungi fim. Dan. p. 319 tab. VI fig. 46-47. Sacc. Syll. Pyr. II p. 127. Winter Pilze II p. 184. *Hormospora ovina* Desm. Crypt. Fr. III n. 98 (p.p.) Pir. Mon. Spor. p. 161 (p.p.) *Spor. ovina* Sacc. Syll. Pyr. II, p. 127.

Hab. *in fimo ovino et vaccino in Seelandia, Ital. bor. et Moravia* (Tab. **xxx**, fig. 2. — Ex spec. ital.)

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 260-300  $\approx$  50-60; sporidia 120-140  $\approx$  20-22.

**Sporormia heptamera** Auersw. Hedw. 1868 p. 71 t.I fig. 8. Karst. Fungi Spet. p. 91-108. Sacc. Syll. Pyr. II p. 129. Winter Pilze II p. 184. Speg. Fungi Fueg. p. 91. Fungi Pat. p. 49 Pir. Mon. Spor. p. 156.

Hab. *in fimo Cuniculorum et Anserum in Thuringia, Moravia, Spitzbergia Fennia et in Amer. austr.* (Tab. **xxxI**, fig. 1. — Ex specim. Niessleanis.)

Perithecia sparsa  $\frac{1}{3}$  mm. d.; asci 230-250  $\approx$  38-44; sporidia 72-80  $\approx$  18-22.

**Sporormia octomera** Auersw. in Hedw. 1868 p. 70 tab. I fig. 7. Pir. Mon. Spor. p. 159. Sacc. Syll. Pyr. II p. 130. Plow. in Grevillea tab. 91 fig. 6. Winter Pilze II p. 164 fig. 1-2 et p.85. Berl. et Bres. Micr. Trid. p.36. t.III t.7.

Hab. *in fimo suino, caprino et Tetraonis in Germania, Britannia et Italia.* (Tab. **xxxI**, fig. 2. — Ex specim. Tridentinis in Herb. meo.)

Perithecia sparsa,  $\frac{1}{3}$  et amplius mm. d.; asci 115-125  $\approx$  14-18 (p. sp.) stipes 110-130; mmm. l.; sporidia 42-45  $\approx$  9.

**Sporormia corynespora** Niessl Art. Sporor. n. 18. Sacc. Syll. Pyr. II p. 131 Winter Pilze II p. 183. Rehm Ascom. n. 748.

Hab. *in fimo leporino et rarius ovino in Moravia* (Tab. XXXI, fig. 3. — Ex specim. orig. in Rehm. Asc. n. 748.)

Perithecia sparsa,  $\frac{1}{3}$  et amplius mm. d.; asci 160-180  $\approx$  22-26 (p. sp.); stipes 70-100 mmm. l.; sporidia 55-60  $\approx$  10-12

**Sporormia commutata** Niessl Art. Sporor. p. 164. Sacc. Syll. Pyr. II p. 130, Winter Pilze II p. 185.

Hab. *in fimo vaccino in Moravia* (Tab. XXXI, fig. 4. — Ex specim. orig. a cloro Niessl benevole comunic.)

**Sporormia affinis** Sacc. Bomm. et Rouss. in Bul. Soc. R. Bot. Belg. 1886 p. 171. Berl. et Vogl. Add. Syll. p. 417.

Hab. *in fimo leporino « Genk » Belgii* (Tab. XXXII, fig. 1. — Ex specim. orig. in Herb. Sacc.)

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 160-180  $\approx$  28-32; sporidia 80-95  $\approx$  14-16;. Affinior *Spor. insigni* quam *S. variabilis* et *S. commutatae*.

**Sporormia insignis** Niessl Art. Sporor. p. 167. Sacc. Syll. Pyr. II p. 131. Winter Pilze II p. 186.

Hab. *in fimo leporino in Moravia* (Tab. XXXII, fig. 2. — Ex specim. orig. a cloro Niessl benevole comunic.)

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 200-220  $\approx$  40-45; sporidia 110-120  $\approx$  13-15.

**Sporormia fimetaria** De Not. Micr. it. Sec. V, p. 10. Pir. Mon. Sp. p. 159. Sacc. Syll. Pyr. II p. 133. Winter Pilze II, p. 186. *Sphaeria fimi*. Rab. H. M. I. n. 1733.

Hab. *in fimo vaccino in Italia, Germania et Am. bor.* (Tab. XXXVII, fig. 4. — Ex spec. orig. a cl. Pirotta benevole communicatis).

Perithecia sparsa,  $\frac{1}{10}$ - $\frac{1}{8}$  mm. d.; asci 70-80  $\approx$  16-18; sporidia 46-50  $\approx$  4.

### Species non examinatae

*Sporormia vexans* Auersw. *Sp. variabilis* Winter *Sp. pulchera* Hans. *Spor. gigaspora* Fuck. *Sp. Ticiensis* Pir. *Sp. Marchaliana* Mouton. *Sp. pentamera* Oud. *Sp. Brassicae* Grove. *Sp. immersa* Zukal. *Sp. fuegiana* Speg. *Sp. antartica* Speg. *Sp. obliquisepta* Speg. *Sp. patagonica* Speg. *Sp. australis*. Speg. *Sp. herculea* Ellis in herb. Exemplar orig. mancum!

**KALMUSIA** Niessl Beitr. p. 54. Sacc. Syll. Pyr. II p. 142. Winter Pilze II p. 763.

Perithecia ligno immersa stromate effuso, eutypeo, tecta. Asci octospori. Sporidia tri-pluri septata, typice non muriformia, colorata.

**Kalmusia Ebuli** Niessl Beitr. p. 55 tab. VI, fig. 49 Sacc. Syll. Pyr. II, p. 143. Winter Pilze II p. 599 fig. 1-3 et 764.

Hab. in caulis siccis Sambuci Ebuli prope « Brünn » Moraviae (Tab. XXXIII,  
fig. 1. — Ex Niessl.)

Perithecia fere  $\frac{1}{2}$  mm. d.; asci 73-80  $\approx$  12-15 (p. sp.); stipes 42-56 mm. l.; sporidia 19-20  $\approx$  5-6.

**Kalmusia inusta** (Cooke) Sacc. Syll. Pyr. II p. 144. *Sphaeria inusta* Cooke et Rav. Am. Fungi in Grevillea VII p. 53.

Hab. in ligno Juniperi « Davien » Amer. bor. (Tab. XXXIII, fig. 2. — Ex specim. orig.)

Perithecia  $\frac{1}{3}$  mm. d.; asci 55-65  $\approx$  10-12; sporidia 12-15  $\approx$  6-7, haud raro muriformia.

### Species excludendae

*Kalmusia dealbata* Sacc. *Kalmusia haemilapha* (B. et Br.) Sacc. *Kal. hypotephra* (B. et Br.) Sacc. Ex autopsia specim. orig. species haec ad *Clypeosphaeriae Notarissii* formam lignicolam sine dubio pertinent. Genus *Kalmusia* idem haud errate ad genus *Clypeosphaeria* adscribi posset. *Kalm. Passerini* Rab., *Kalm. pachyasca* (C. et El.) Sacc., *Kalm. surrectia* (Cooke) Sacc., *Kalm. munda* Pass. ad genus *Melanomma* pertinent.

**THYRIDARIA** Sacc. in Grev. IV p. 21. Syll. Pyr. II p. 140. Perithecia acervulata, sepe apice rubedine cincta. Asci octosperi. Sporidia tri-plurilocularia, non muriformia, (saltem typice) colorata.

**Thyridaria incrassans** Sacc. Myc. Ven. II p. 170. Fungi Ven. Ser. IV p. 14. Syll. Pyr. II p. 140. Berl. Fungi Mor. fasc. VII n. 23 fig. 1-7. *Cucurbitaria Broussonetiae* Sacc. Myc. Ven. p. 118 tab. XII fig. 12-17.

Hab. in cortice ramorum Broussonetiae, Albizziae, Rhois, Juglandis et Mori in Ital. bor. (Tab. XXXIII, fig. 3. - Ex specim. orig. a claro Sacc. benevole com.)

Perithecia acervulata vel sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 110-120  $\approx$  12-14; sporidia 23-28  $\approx$  8-10.

**Thyridaria pulveracea** (Karst.) Sacc. Syll. Pyr. II p. 141. Karst. Rev. Asc. p. 45. *Cucurbit. pulveracea* Karst. Myc. fenn. II p. 52.

Hab. in ramis emortuis Pruni Padi prope « Mustiala » Fenniae (Tab. XXXIII, fig. 4. — Ex specim. orig. a claro Karst. benevole comunic.)

Perithecia rubro-pruinosa, acervulata,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 95-105  $\approx$  9-12, sporidia 16-20  $\approx$  5-6. Vix *Thyridaria*, aptius ad *Cucurbitaria* adscribenda.

**Thyridaria rubro-notata** (B. et Br.) Sacc. Syll. Pyr. II p. 141. *Melogramma rubro-notatum* B. et Br. Not. Brit. Fungi N. 894. *Mossaria lateritia* Tul. Carp. II p. 243. *Thyrid. Ailanthi* Rehm Ascom. Lojk n. 26 p. 40 - Sacc. Syll. Pyr. II p. 143.

Hab. in ramis siccis Ulmi, Aesculi, Ailanthi, in Britannia, Gallia et Hungaria (Tab. XXXIII, fig. 5. Ex specim. orig. a claro Cooke benevole comunic. et cum iis orig. *Th. Ailanthi* minutum comparatis.)

Perithecia acervulata, sursum rubro-lateritia,  $\frac{1}{3}$  mm. d.; asci 80-100  $\approx$  7-9; sporidia 16-19  $\approx$  5-7. Adest in exemplaribus Berkeleyanis et Rehmianis status pycnidicus *Coniothyrium* sporulis 4-5  $\approx$  3, fuscidulis.

**Thyridaria Comptoniae** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 417.  
*Diatrype Comptoniae* Ell. et Ev. in Journ. of Myc. 1886 p. 89.

Hab. in caulis emortuis, partim decorticatis Comptoniae asplenifoliae « Newfield » Amer. bor. (Tab. XXXIII, fig. 6. Ex specim. orig. a cl. Ellis benevole com.)

Perithecia stromate tecta,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; singula vel acervulata; asci 50-55 = 10-12, stipite 35-40 mm. longo; sporidia 15-17 = 4-6.

**Thyridaria entypoides** Ellis et Ev. in Journ. of Myc. IV, p. 78.

Hab. in ramis Meliae « Louisiana » Amer. bor. (Tab. XXXIV. fig. 1. — Ex specim. orig. a cl. Ellis benevole comunic.)

Perithecia acervulata  $\frac{1}{3}$  mm. d.; asci 45-55 = 8-10, sporidia 14-16 = 5.

**Thyridaria Sambuci** (Karst.) Sacc. Syll. Pyr. II p. 141. Karst. Rev. Asc. p. 45. *Kalmusia Sambuci* Karst. Symb. Myc. fenn. VI p. 40.

Hab. in ramis Sambuci racemosae in *Horto Mustialensi Fenniae* (Tab. XXXIV, fig. 2. — Ex specim. orig. a cl. Karsten benevole comunic.)

Perithecia valsiformiter acervulata, acervuli 3-4 mm. d.; asci 100-110 = 7-9, sporidia 15-18 = 4-6. Ostioli saepe tri-quadrifurcati.

**Thyridaria Fraxini** Ell. et Ev. in Prooc. Acad. Sc. Nat. Phil. 1890 p. 223.

Hab. in cortice Fraxini in Amer. bor. (Tab. XXXIV, fig. 3. — Ex specim. orig. a cl. Ellis benevole comunic.)

Perithecia vix acervulata vel sparsa, stromate nullo,  $\frac{1}{3}$  mm. d.; asci 90-110 = 16-20; sporidia 20-26 = 4-5. Species inter *Allantosporas* et *Phaeophragmias* ludibunda. Sporidia saepe continua, subinde plasmate pluries partito sed haud raro exigue at distincte (quod aptius manifestum appetit Chlorti-Joduri-Zyncope) triseptata. Septuli subinde ab endosporio separantur.

### Species excludendae

*Thyridaria lateritia* (Ellis) Sacc. *Thyr. myrangioides* (B. et R.) Sacc. ad *Melogramma vagans*, suadente quoque cl. Ellis, pertinent.

### Species non examinatae

*Thyrid. delegensis* Speg. et Roum. *Thyrid. texensis* (Ellis et Ev.) Berl. et Vogl.

**PSEUDOVALSA** Ges. et De Not. Schem. Ster. p. 32. Sacc. Syll. Pyr. II p. 35. Winter Pilze II p. 783. Brunaud Contr. Flor. Myc. Ouest (Pyr.) p. 178. *Aglaospora* De Not. Oss. Pir. Sfer. p. 43. Sacc. Syll. Pyr. II p. 133 - Brunaud l. c. p. 177.

**Pseudovalsa occulta** (Romell) Berl. *Massaria occulta* Romell in Hedw. 1885 p. 262. Berl. et Vogl. Add. Syll. p. 131.

Hab. ad ramos emortuos Ribis Grossulariae prope « Kumla Nerina » in Suecia (Tab. XXXIV, fig. 4. - Ex specim. orig. a cl. Bresadola benevole com.)

Perithecia 3-6-acervulata,  $\frac{1}{3}$  mm. d., stromate luteo-pruinoso cincta; asci 150-160 = 14-16 sporidia 18-22 = 8-10.

**Pseudovalsa tubulosa** (B. et C.) Sacc. Syll. Pyr. II p. 137. *Valsa tubulosa* Cooke Valsei of Un. St. p. 123, Grevillea XIV p. 48. *Calosporella tubulosa* Sacc. Syll. Pyr. II p. 232. *Valsa trib.* B. et C. North. Am. n. 877.

Hab. in ramis Alni Carolina Amer. bor. (Tab. XXXIV, fig. 5. — Ex specim. orig. a cloro Cooke benevole comunicata.)

Perithecia in acervulos valseos, 1 mm. d. collecta;  $\frac{1}{4}$  mm. d.; asci...., jam resorpti; sporidia 30-32 = 10-12.

**Pseudovalsa profusa** (De Not.) Wint. Pilze II, p. 785. *Sphaeria profusa* Fries Syst. Myc. II p. 392. *Sphaeria irregularis* D. C. Flor. Franc. VI p. 116. *Sphaeria circumscripta* Schmidt et Kunze Deut. Schw. n. 155. *Sphaeria anomia* Fries l. c. p. 381. *Sph. capitellata* Kloetz in Herb. Myc. Ed. I n. 161. *Messaria seiridia* Berk. et C. in Grev. IV, p. 155. *Aglaospora profusa* De Not. Microm. Ital. Dec. V p. V n. 3 Sacc. Syll. Pyr. II p. 133. Brun. Flor. Myc. Ouest. (Pyr.) p. 177. Tul. Carp. II tab. XX. Briard. Florul. Crypt. Aube p. 309.

Hab. in ramis corticatis Robiniae Pseudoacaciae in fere tota Europa et Am. bor. (Tab. XXXIV, fig. 6. — Ex specim. in Herb. meo).

Perithecia  $\frac{1}{3}$  mm. d.; asci 200-220 = 22-25; sporidia 58-60 = 16-18. Inveni inter ascos tetrasporos etiam ascos 6-sporos 250 = 20. sporidiis paulo minoribus.

**Pseudovalsa sigmoidea** (Cooke et Ellis) Sacc. Syll. Pyr. II p. 136. *Melanconis sigmoidea* Cooke et Ellis in Grev. VI p. 92 tab. 100 fig. 26.

Hab. in ramis Quercus in New Jersey in Amer. bor. (Tab. XXXV, fig. 1. — Ex specim. orig.)

Perithecia  $\frac{1}{3}$  mm. d., in stromate usque 2-mm. d., 3-5-congesta; asci 190-200 = 28-32; sporidia 60-65 = 12-14. Videtur varietas. *P. umbonata*.

**Pseudovalsa lanceiformis** (Fries) Ces. et De Not. Schema Sfer. it. p. 32. Sacc. Syll. Pyr. II p. 135. Winter Pilze II p. 784. Brun. Contr. Flor. Myc. Ouest. Pyr. p. 178. Briard. Contr. Flor. Crypt. Aube p. 310. *Sphaeria lanceiformis* Fries Syst. Myc. II p. 362. *Sph. quercina* b. Alb. et Schw. Consp. p. 11. *Sph. Betulae* Schum. Saell. II, p. 171. *Sph. cineta* De C. Flor. Franc. VI p. 119. *Sph. melasperma* Fries l. c. p. 389. *Sph. faracea* Tul. in Compt. Rend. Tom. XXXII p. 472-474. *Melanconis lanceiformis* Tul. Carp. II p. 135 tab. XIV.

Hab. in cortice Betulae in fere tota Europa (Tab. XXXV, fig. 2. — Ex specim. Winterianis in Herb. Sacc.)

Perithecia in stromate, circiter 1-3 mm. longo, 4-10-congesta,  $\frac{1}{3}$  mm. d.; asci 150-160 = 28-30; sporidia 40-45 = 16.

**Pseudovalsa umbonata** (Tul.) Sacc. Fungi Ven. Ser. IV p. 20. Fungi it. t. 438 Syll. Pyr. II p. 136. Winter Pilze II p. 785. *Melanconis umbonata* Tul. Carp. p. 138 tab. XV, fig. 7-15. *Aglaospora Malbrancheana* Sacc. Syll. Pyr. II p. 134. *Pseudovalsa Malbrancheana* Sacc. Mich. I p. 309.

Hab. in ramis corticatis Quercus pedunculatae et Pruni in Gallia, Germania et Italia (Tab. XXXV, fig. 3. — Ex Rehm Ascom. n. 227.)

Perithecia in stromate usque 2 mm. lat. congesta,  $\frac{1}{3}$  mm. d.; asci 160-170  $\approx$  30-35; sporidia 40-44  $\approx$  16-18. Valde affinis *Pseud. lanciformi* a qua aegre distinguenda. In specim. orig. *Aglaosporae Malbrancheanae* ascis inveni octosporos sporidiisque 45-55  $\approx$  16-18.

**Pseudovalsa aucta** (B. et Br.) Sacc. Syll. Pyr. II p. 138. Winter Pilze II p. 789. *Sphaeria aucta* B. et Br. Not. Brit. Fungi n. 728 tab. X, fig. 11. *Cryptospora aucta* Tul. Carp. II p. 152 tab. XVII, fig. 1-12. *Calospora aucta*. Fuck. Symb. Myc. p. 191.

Hab. in ramis exsiccatis Alni glutinosae et Betulae in Britannia Gallia et Germania (Tab. XXXV, fig. 4. - Ex specim. orig. a cl. Cooke benevole com.)

Perithecia subcircinantia,  $\frac{2}{3}$ - $\frac{3}{4}$  mm. d.; asci 100-120  $\approx$  25-30; sporidia 35-40  $\approx$  12-14 (sine app.), semper hyalina et uniseptata visa. An juvenilia?

**Pseudovalsa stylospora** Ell. et Ev. Proc. Acad. Nat. Sc. Phil. 1890 p. 223.

Hab. in cortice Aceris spicati « London » Canada Amer. bor. (Tab. XXXV, fig. 5. — Ex specim. orig.)

Perithecia  $\frac{1}{3}$  mm. d., 3-5-acervulata; asci 100-110  $\approx$  25-30; sporidia 28-30  $\approx$  12-14 (sine app.)

**Pseudovalsa hapalocystis** (B. et Br.) Sacc. Mich. I p. 44, Syll. Pyr. II p. 138, Winter Pilze II p. 788. *Sphaeria hapalocystis* Berk. et Br. (in Ann. and Magaz. of Nat. Hist. Ser. II, p. 317 tab. X fig. XII. *Hapalocystis Berkeleyi* Anersw. in Fuck. Fungi rhen. 585. *Calospora hapalocystis* Fuck. Symb. p. 191. tab. 6 fig. 14. *Pseudovalsa hapal.* forma minor. Sacc. Fungi it. tab. 450. Syll. Pyr. II p. 139 (non bene evoluta).

Hab. in ramis corticatis Platani in Germania, Britannia, Italia et Belgio (Tab. XXXVI, fig. 1. — Ex Ellis North Amer. Fungi n. 2119 cum specim. orig. minutim comparatis).

Perithecia 4-10-acervulata,  $\frac{1}{3}$  mm. d.; asci 80-120  $\approx$  20-30; sporidia 40-45  $\approx$  18-23 (sine app.)

**Pseudovalsa convergens** (Tode) Sacc. Syll. Pyr. II p. 136. Winter Pilze II p. 791. *Sphaeria convergens* Tode Fungi Meckl. II p. 39 f. 111. Fries Syst. Myc. II p. 410. *Valsa convergens* Cooke Valsei Un. St. p. 123. *Melanconis Berkeleyi* Tul. Sel. Fung. Carp. II p. 130. *Sphaeria inquinans* Var. *Ulmi* B. et Br. Hook. Journ. p. 320 tab. X. *Calospora Berkel.* Fuck. Symb. App. I p. 25. *Pseudovalsa Berkel.* Sacc. Syll. Pyr. II p. 137. Winter Pilze II p. 787.

Hab. in ramis Platani et Ulmi in Germania, Britannia, Italia, Nerlandia et Belgio (Tab. XXXVI, fig. 2. — Ex specim. Oudemansianis cum typicis *Pseudovalsae Berkel.* minutim comparatis).

Perithecia in quoque acervulo plus minusve numerosa; asci 200-220  $\approx$  30-35; sporidia 48-60  $\approx$  16-20.

**Pseudovalsa macrosperma** (Tul.) Sacc. Fungi Ven. Ser. IV, p. 20. Fungi Ital. tab. 449. Syll. Pyr. II p. 139. Winter Pilze II p. 789. *Melanconis macro-*

*sperma* Tul. Carp. II p. 132 tab. XIV, fig. 13-23. *Prosthemium ellipsosporum* Fres. Beitr. Myk. p. 62, tab. VII, fig. 18-23. *Pseudov. stylospora* Auersw. in Rabh. Fungi eur n. 1251.

Hab. in ramis corticatis Carpini Betuli in Gallia, Italia et Germania (Tab. XXXVI, fig. 3. — Ex specim. Saccardianis cum orig. comparatis).

Perithecia  $\frac{1}{3}$  mm. d., in stromate 2-3 mm. d., dense coacervata; asci 180-200  $\approx$  25-28; sporidia 35-42  $\approx$  12-14. Status conidicus sistit *Stilbospora angustata* conidiis 45-50  $\approx$  12-14.

**Pseudovalsa bicornis** (Cooke) Sacc. Syll. Pyr. II p. 139. *Melanconis bicornis* in Peck 28 Rep. St. Mus.

Hab. in cortice Platani occidentalis in Amer. bor. (Tab. XXXVI, fig. 4. — Ex specim. orig.)

Perithecia 5-7-acervulata,  $\frac{1}{3}$  mm. d.; asci 120-130  $\approx$  40-50; sporidia 60-65  $\approx$  16-20 (sine app.)

**Pseudovalsa Kickxii** (West.) Sacc. in Lamb. Flor. Myc. Belg. II p. 359. Syll. Pyr. II p. 139. *Valsa Kickxii* West. in Kickx Flor. Crypt. Fl. I p. 322. Oud. Aanw. 1876-77 p. 17.

Hab. in ramis emortuis Platani acerifoliae in Belgio (Tab. XXXVI, fig. 5. — Ex specim. a claro Oudemans benevole comunic.)

Perithecia 5-7-circinantia,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 120-140  $\approx$  30-35, 4-6-spori; sporidia 50-55  $\approx$  20-25 (sine app.)

### Species excludendae

*Pseudovalsa Titan* est novum genus (Titania) Ex specim. orig. — *Pseud. longipedis* in omnibus specim. examinatis (et ideo etiam originalibus) semper inveni sporidia hyalina, qua re species ad genus *Calospora* adscribenda puto. *Pseudovalsa aglaeostoma* (B. et Br.) Sacc. est. *Calospora* (Ex spec. orig.) *Aglaospora thelebola* Rehm est *Melanconis*. *Pseud. Xanthoxyli* (Peck) Sacc. est *Fenestella*.

### Species non examinatae

Sacc. *Pseud. sambucina* (Peck) Sacc. *Pseud. Fairmani* E. et C. *Aglaospora effusa* Rehm.

**TITANIA** Berl. nov. gen. Perithecia in stromatibus, epidermide tectis, prominulis, usque 3 mm. d. 2-4-congesta, ostiolis emergentibus. Asci monospori, Sporidia magna, transverse septata, fusoideo-cylindracea, colorata.

**Titania Berkeleyi** Berl. *Diatrype Titan* B. et Br. North Amer. Fungi n. 857. *Pseudovalsa Titan* Sacc. Syll. Pyr. II p. 135.

Hab. in cortice Carpini in Carolina inferiore Amer. bor. (Tab. XXXVII, fig. 1. — Ex specim. orig. a claro Cooke benevole comunic.)

Perithecia in stromate 3 mm. d. 2-4 acervata, ostiolis prominulis,  $\frac{2}{3}$ - $\frac{3}{4}$  mm. d.; asci monospori, 180-200  $\approx$  28-32; sporidia 90-110  $\approx$  23-25.

**MELOGRAMMA** Tul. Carp. II p. 81 Sacc. Syll. Pyr. II p. 144. Winter Pilze II p. 807. Brun. Contr. Flor. Myc. Ouest. (Pyr.) p. 181. Stroma erumpenti superficiale, globoso-pulvinatum. Ascii octospori paraphysati. Sporidia fusoidae, transverse septata colorata.

**Melogramma vagans** De Not. Micr. ital. Dec. IX, p. 459, tab. II, Sacc. Syll. Pyr. II, p. 144. Brun. l. c. p. 181. Briard. l. c. p. 311. *Melogramma Bulliardii* Tul. Carp. II p. 81, Winter Pilze II p. 807. *Variolaria Melogramma* Bull. Champ. Tom. I p. 182, tab. 492, fig. 1. *Sphaeria ocellata* Pers. Disp. p. 2. *Sph. Melogramma* Pers. Syn. p. 13. *Melogrammo fusicornum* Fries Summa Veg. p. 386. *M. campylosporum* Fries l. c. Sacc. Syll. Pyr. II p. 145. *Diatrype lateritia* Ellis. Torr. Bot. Cl. p. 19, (1882). *Thyridaria lat.* Sacc. Syll. Pyr. II p. 141. *Hypoxylon myriangiodes* B. et R. North Am. Fungi n. 834. *Thyridaria myr.* Sacc. Syll. Pyr. II p. 142. *Hypocrea Ravenelii* Berk. North. Am. Fungi n. 804, *Broomella Rav.* Sacc. Syll. Pyr. II p. 558. *Mel. fuscosporum* (Schw.) Sacc. Syll. Pyr. II p. 145.

Hab. in cortice emortuo Carpinii, Fagi, Coryli, Ostryae in fere tota Europa et Am. bor. (**Tab. XXXVII. fig. 2.**) — Ex specim. anglicis cum aliis e regionibus variis comparatis).

Perithecia acervulata, primo rufo-fuliginea demum nigricantia; ascii 110-120 ± 12-14; sporidia 40-50 ± 4-6.

**Melogramma spiniferum** (Wallr.) De Not. Sfer. it. p. 53. Sacc. Syll. Pyr. II p. 145. Winter Pilze II p. 808. Brunaud l. c. (Pyr.) p. 181, Briard. l. c. p. 311, Berl. et Bres Micr. Trid. p. 38, tab. III fig. 8. *Sphaeria spinifera* Wallr. Flor. Crypt. II p. 846. *Sphaeria poloides* Pers. Synops. p. 22. *Diatrype podoides* Fries Summa Veg. p. 385, *Melogramma asperum* Ces et De Not. Schema Sfer. p. 30.

Hab. in cortice Fagi silvaticae in Italia, Germania, Gallia et Britannia (**Tab. XXXVII. fig. 3.**) - Ex specim. ital. in Herb. Sacc. cum aliis e regionibus variis comp.)

Stromata dense gregaria vel subconfluentia, tumide pulvinata, 5 mm. d.; perithecia stipata,  $\frac{1}{3}$ - $\frac{2}{3}$  mm. d.; ascii 170-190 ± 16-18; sporidia 55-65 ± 7-8.

### Species excludendae

*Melogramma Irpest* (B. et Br.) Sacc. est *Rhyncosphaeria* - *Mel. niphidium* (B. et Br.) Sacc. Specim. orig. sterilis inveni sed « ut videtur » non ad hoc genus pertinet - *Mel. Jachii* Rab. See. cl. Winter (Pilze II p. 810) non est *Ascomycet* sed ex specim. orig. Musei Romani intellexi nihil aliud esse speciem hanc, nisi status conidie. *Gibberellae pulicaris* cuius copiose in iisdem exemplaribus etiam st. ascophorum invent. Contextus peritheci amoene coenalesceat! *Melogramma platyrrhoun* (B. et C.) B. et V. Ex specim. orig. nihil eruere potui sed habitus est *Lasiosphaeriae* et e. diagnosi certe non *Phaeophragmia*.

### Species non examineate

*Melogramma cylindrosporum* Rabh. *Mel. Fuckelii* Nitsch. *M. Meliae* Curtis.

**PASSERINIELLA** Berl. nov. gen. eximio Mycologo **Johann. Passerini** grato animo libentissimeque dicatum.

Perithecia rami-culmicola, atra, globuloso-conoidea, ostiolato-papillata. Asci octospori. Sporidia transverse septata, loculis mediis coloratis, extimis hyalinis. *Ceriosporae* affine sed sporidiis muticis distinctum.

**Passeriniella dichroa** (Pass.) Berl. *Leptosph. dichroa* Pass. Diagn. Fungi Nuovi II, 1887, p. 9.

*Hab. in ramis corticatis* Deutschiae scabrae *prope* « Parma It. bor. » (Tab. XXXVIII fig. 1. — Ex specim. authent. a cl. Passerini benevole communic.)

Perithecia sparsa,  $\frac{1}{10}$ - $\frac{1}{9}$  mm. d.; asci 65-80  $\approx$  10-12; sporidia 15-20  $\approx$  5-6.

**Passeriniella incarcerata** (B. et C.) Berl. *Sphaeria incarcerata* B. et C. North Amer. Fungi n. 960, *Leptosphaeria incarc.* Sacc. Syll. Pyr. II p. 86.

*Hab. in culmis* Spartinae in « Carolina infer. Amer. bor. » (Tab. LVIII, fig. 5. — Ex specim. orig. a claro Cooke benevole communic.) (Specim. sero examinavi et tantum in tabula hac inserere potui).

Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci 100-115  $\approx$  16-18; sporidia 25-28  $\approx$  8-10, tri-raro 5-septatis, loculis extimis hyalinis. *Caryosporam* in mentem revocat sporidiorum formâ.

**LEPTOSPHAERIA** Ces. et De Not. Schema class. Sfer. p. 60. Sacc. Syll. Pyr. II, p. 13. Karsten Rev. Syn. Asc. Fenn. p. 5 Brun. Pyren. Ouest, p. 158 Briard Flor. 298. Winter Pilze II, p. 440.

Perithecia membranacea, saltem primitus epidermide, tecta saepius sparsa minutaque, nigra, ostiolata. Asci octospori, paraphysati. Sporidia ovoidea vel fusoidea, transverse bi-pluriseptata, colorata.

**Affinitates:** A *Metasphaeria*, cui valde cognatum et subinde aegre separandum, sporidiis coloratis differt. Cum *Ophiobolo* speciebus nonnullis sclecosporis congruit. Ad *Melanomma* speciebus sublignicolis vertit. A *Rebentischia*, *Ceriospora*, *Heptameria* et *Passeriniella* sporidiis non appendiculatis loculisque omnibus concoloribus differt. A *Pleospora* sporidiis numquam muriformibus distinctum. *Sporormia* loculis sporidiorum secedentibus longe distat. *Pocospshaeria* peritheciis setosis, *Chitonospora* sporidiis tunicatis, *Leptosphaeriopsis* sporidiis in asco apice connexis differunt.

**Leptosphaeria minima** (Duby) Sacc. Mich. II pag. 320 Syll. Pyr. II p. 48. *Sphaeria minima* Duby in Roum. Fungi Gall. n. 694.

*Hab. in pagina superiore foliorum* Potentillae argenteae in « Gallia ».

Perithecia sparsa  $\frac{1}{10}$ - $\frac{1}{9}$  mm. d.; asci 50-55  $\approx$  18-20, sporidia 20-25  $\approx$  6-7. (Tab. XXXVIII fig. 2. — Ex specim. orig. in Roum. I. c. Reliq. Moug.) Sporidiis virescenti-subhyalinis ad *Metasphaeriam* valde accedit.

**Leptosphaeria Michotii** (West.) Sacc. Fungi It. tab. 279, Syll. Pyr. II, pag. 58. Winter Pilze II p. 444 *Sphaeria Michotii* West. in Bull. Soc. Bot.

Belg. II Ser. Tom. VII, n. 52. *Sphaerella Michotii* Auersw. Myc. Eur. Tab. VI, fig. 75 pag. 18. *Leptosphaeria trimera* Sacc. Fungi Veneti, Ser. II, n. 319, *Sphaerella Lamprocarpi* Pass. Erb. critt. it. scr. II, n. 392, *Lept. Lamproc.* Sacc. Syll. Pyr. pag. 66.

*Hab. in culmis emortuis Andropogonis, Junci, Scirpi etc. in « Belgio, Italia, Britannia, Germania et Gallia »* (**Tab. XXXVIII, fig. 3.** — Ex specim. orig. in West. n. 1218 cum iis orig. *L. Lamproc.* et aliis comparatis).

Perithecia sparsa,  $\frac{1}{10}$ - $\frac{1}{8}$  mm. d.; asci 50-55  $\approx$  12-14; sporidia 15-18  $\approx$  3 $\frac{1}{2}$ -4 $\frac{1}{2}$ .

**Leptosphaeria aquilina** Pass. Funghi Parm. IV, p. 47. Sacc. Syll. Pyr. II, pag. 82. *Sphaerella aquilina* Auersw.?

*Hab. in foliis Pteridis aquilinae prope « Parma Ital. bor. »* (**Tab. XXXVIII fig. 4.** — Ex specim. orig. a claro Passerini benevole communicatis).

Perithecia sparsa,  $\frac{1}{10}$ - $\frac{1}{9}$  mm. d., epiphylla; asci 25-30  $\approx$  6-8; sporidia 7 $\frac{1}{2}$ -8  $\approx$  3 $\frac{1}{2}$ -4.

**Leptosphaeria helvetica** Sacc. et. Speg. in Sacc. Fungi It. tab. 324. Mich. I, p. 399. Syll. Pyr. II, p. 80. Rehm Asc. n. 884. Winter Pilze II, p. 442.

*Hab. in foliis Selaginellae helveticae « Vittorio Ital. bor. » et in Germania* (**Tab. XXXVIII, fig. 5.** — Ex specim. a cl. Saccardo benev. comm.).

Perithecia laxe gregaria,  $\frac{1}{10}$ - $\frac{1}{9}$  mm. d.; asci 44-55  $\approx$  10-12; sporidia 10-12  $\approx$  3 $\frac{1}{2}$ -5.

**Leptosphaeria Porothelia** (B. et C.) Berl. *Sphaeria Poroth.* B. et C. North Amer. Fungi n. 912. *Melanomma Poroth.* Sacc. Syll. Pyr. II, pag. 104.

*Hab. in hymenio Sterei cuiusdam in « Carolina Inferiore Amer. bor. »* (**Tab. XXXVIII, fig. 6.** — Ex specim. orig. in Herb. Curtis. a. coll. Cooke et Ellis benevole communic.).

Perithecia in foveola sita,  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d., sparsa, tenuissima; asci 35-45  $\approx$  6-7; sporidia 11-13  $\approx$  3-4.

**Leptosphaeria bryophila** Sacc. Fungi Ven. serie II, p. 319, Fungi it. tab. 271. Syll. Pyr. II, p. 82.

*Hab. in pedunculis Tortulac tortuosae in alpinis « Cadore (Belluno) Ital. bor. »* (**Tab. XXXVIII, fig. 7.** — Ex specim. orig. a claro Saccardo benevole communicatis).

Perithecia sparsa,  $\frac{1}{12}$ - $\frac{1}{10}$  mm. d.; asci 40-45  $\approx$  8-10; sporidia 14-16  $\approx$  3-3 $\frac{1}{2}$ .

**Leptosphaeria Ophiopogonis** Sacc. Fungi Ven. Serie II, pag. 321. Syll. Pyr. II, p. 68. Fungi it. p. 510. *Sphaerella Ophiop.* Sacc. Myc. Ven. p. 94, tab. 9, fig. 18-21.

*Hab. in foliis Ophiopogonis Japonici « Padova Ital. bor. »* (**Tab. XXXVIII, fig. 8.** — Ex specim. orig. a claro Saccardo benevole communic.).

Perithecia parallela seriata inter foliorum nervos,  $\frac{1}{6}$ - $\frac{1}{7}$  mm. d.; asci 45-50  $\approx$  8; sporidia 15-17  $\approx$  3-4.

**Forma Graminum** Sacc. Syll. Pyr. I. c.

*Hab. in foliis Graminum in « Gallia »* (Tab. XXXVIII, fig. 9. — Ex specim. orig.).

Perithecia sparsa,  $\frac{1}{10}$  mm. d.; asci 40-45  $\approx$  8-10; sporidia 12-14  $\approx$  3-4.

**Leptosphaeria Hendersoniae** (Ellis) Berl. *Sphaeria Hendersoniae* Ellis Grev. VI, p. 15 tab. 95. fig. 8. *Sphaeria melantera* Peck 29 Rep. p. 62 *Clypeosphaeria Hend.* Sacc. Syll. Pyr. II, p. 91.

*Hab. in sarmentis Rubi strigosi in « Amer. bor. »* (Tab. XXXVIII, fig. 10. — Ex specim. orig. in Ellis North Amer. Fungi n. 581).

Perithecia gregaria,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 45-50  $\approx$  6-8; sporidia 13-15  $\approx$  3-4.

Epidermide circa ostiolum nigrescente *Clypeosphaeriam* simulat sed peritheciis duriusculis *Melanommati* affinior.

**Leptosphaeria Leersiae** Pass. Fungh. Parm. IV, p. 43. *Leptosphaeria Leersiana* Sacc. Syll. Pyr. II, p. 60.

*Hab. in foliis Leersiae oryzoidis prope « Parma Ital. bor. »* (Tab. XXXIX, fig. 1. — Ex specim. orig. a claro Pass. benevole communic.).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{9}$  mm. d.; asci 55-65  $\approx$  8-9; sporidia 14-16  $\approx$  4-5.

**Leptosphaeria muralis** Sacc. Mich. II, p. 64. Syll. Pyr. II, p. 22.

*Hab. in caulis Parietariae officinalis in « Gallia »* (Tab. XXXIX, fig. 2. — Ex specim. orig. a claro Sacc. benevole communicatis).

Perithecia sparsa,  $\frac{1}{6}$  mm. d.; asci 70-75  $\approx$  8-9; sporidia 14  $\approx$  4.

**Leptosphaeria anthelmintica** (Cooke) Sacc. Syll. Pyr. II, p. 21. *Sphaeria anthelm.* Cooke Grev. VII, p. 53.

*Hab. in caulis Chenopodii anthelmintici « Aiken in Carolina Amer. bor. »* (Tab. XXXIX, fig. 3. — Ex specim. orig. a claro Cooke benevole communic. et in Herb. Sacc.).

Perithecia sparsa,  $\frac{1}{5}$  mm. d.; asci 55-60  $\approx$  8-10; sporidia 17-19  $\approx$  4, (non ut in Grevill. l. c. 30-7).

**Leptosphaeria anceps** Sacc. Mich. I, p. 120. Fungi it. p. 513. Syll. Pyr. II, p. 27. Sacc. et Paol. Fungi Austral. p. 8.

*Hab. in ramis Ribis in « Germania, Italia et Australia »* (Tab. XXXIX, fig. 4. — Ex specim. orig. in Herb. Sacc.).

Perithecia sparsa  $\frac{1}{7}$ - $\frac{1}{6}$  mm. d.; asci 45-55  $\approx$  9-12; sporidia 16-18  $\approx$  3  $\frac{1}{2}$ .

In Italia specim. detexit, prope « Parma », clarus Prof. Passerini.

**Leptosphaeria bella** Pass. Diagn. Funghi nuovi II, p. 1887 p. 9.

Perithecia sparsa  $\frac{1}{6}$ - $\frac{1}{8}$  mm. d.; asci 50-60  $\approx$  10-12; sporidia 14-16  $\approx$  5.

*Hab. in caulis Chondrillae junceae « Vigheffio » prope « Parma Ital. bor. »* (Tab. XXXIX, fig. 5. — Ex specim. orig. a claro Pass. benevole communic.). Valde affinis sequenti et verisimiliter haud specificie distincta.

**Leptosphaeria brachysperma** Berl. Champ. Frioul p. 8 tab. IX, fig. 4.

*Hab. in caulis herbaceis emortuis « Osoppo Friuli Ital. bor. »* (Tab. XXXIX, fig. 6).

Perithecia sparsa,  $\frac{1}{8}\text{-}\frac{1}{9}$  mm. d.; asci 60-70  $\approx$  10-12; sporidia 16-17  $\approx$  5-6.

**Leptosphaeria filamentosa** Ellis et Ev. Journ. of. Myc. IV, pag. 76.

*Hab. in foliis Yuccæ filamentosæ in « Amer. bor. » (Tab. XXXIX, fig. 7. — Ex specim. orig. a claro Ellis benevole communic.).*

Perithecia in macula expallente sparsa,  $\frac{1}{4}\text{-}\frac{1}{5}$  mm. d.; asci 75-80  $\approx$  7-9; sporidia 12-14  $\approx$  4-6.

**Leptosphaeria Ramalinae** (Desm.) Sacc. Syll. Pyr. p. 84. *Sphaeria Ramal.* Desm. XVI not. 1849, p. 28. Pl. crypt. Fr. exsicc. n. 2069.

*Hab. in thallo Ramalinae in « Gallia » (Tab. XL, fig. I. — Ex specim. orig. in Desm. l. c. editis).*

Perithecia sparsa,  $\frac{1}{8}\text{-}\frac{1}{9}$  mm. d.; asci 75-85  $\approx$  7-9; sporidia 14-16  $\approx$  4-5.

**Leptosphaeria melanomoides** Berl. *Melanomma Buxi* Rousseau (non Fabre).

*Hab. in ramis Buxi sempervirentis « Jvoir » in « Belgio » (Tab. XL, fig. 2. — Ex specim. *Melan. Buxi* a clara domina Rousseau benevole communicatis). Inter *Melanomma* et *Leptosphaeriam* sere medium sed aptius ad genus hoc, ut mihi videtur, adscripta; certe a *Melanommate Buxi* Fabre aliena.*

Perithecia  $\frac{1}{3}\text{-}\frac{1}{2}$  mm. d., sparsa; asci 65-75  $\approx$  10-12; sporidia 14-16  $\approx$  5-6

**Leptosphaeria Magnusiana** Sacc. et Berl. in Berl. et Vogl. Add. Syll. p. 414. Sacc. Supp. Syll. Pars. I, p. 787.

*Hab. in foliis Chamaeropis humilis in « Sicilia » (Tab. XL, fig. 3).*

Perithecia sparsa;  $\frac{1}{8}\text{-}\frac{1}{7}$  mm. d.; asci 60-70  $\approx$  16-18; sporidia 18-20  $\approx$  4-5.

**Leptosphaeria fimiseda** Winter in Hedw. 1871 pag. 163. Pilze II, p. 490. Sacc. Syll. Pyr. II, p. 58.

*Hab. in fimo in sylva « Harth » prope « Lipsia » (Tab. XL, fig. 4. — Ex specim. orig. a spectabili Directione Musei Berolinensis benevole missis).*

Perithecia sparsa; asci 90-100  $\approx$  10-12; sporidia 18-22  $\approx$  4-5.

**Leptosphaeria dumetorum** Niessl Beitr. Kennt. Pilze 26, tab. III, fig. 19. Sacc. Syll. Pyr. II, p. 15. Winter Pilze II, p. 461. Rehm Ascom. n. 687 et 688.

*Hab. in caulis et ramis Humuli, Artemisiae, Lonicerae, Helianthi, Sambuci etc. in « Germania, Italia et Britannia » (Tab. XL, fig. 5. — Ex specim. orig. (in Humulo) a claro Niessl benevole communic.). Forma *Eboli* (cfr. Rab. Wint. F. Eur. n. 2853, et Rehm Asc. n. 687 a claro Niessl lecta, a typo non differt.*

Perithecia sparsa,  $\frac{1}{5}$  mm. d.; asci 60-70  $\approx$  6-7; sporidia 20-22  $\approx$  3  $\frac{1}{2}$ -4.

**Leptosphaeria Bocconiae** (C. et E.) Sacc. Syll. Pyr. II, p. 16. *Sphaeria Bocconiae* C. et E. Grev. VII, p. 10.

*Hab. in caulis Bocconiae « New Jersey Amer. bor. » (Tab. XL, fig. 6. — Ex specim. orig. a claro Cooke benevole communic.).*

Perithecia sparsa,  $\frac{1}{7}\text{-}\frac{1}{6}$  mm. d.; asci 65-75  $\approx$  7-9; sporidia 20-22  $\approx$  4-5. Valde affinis *L. dumetorum* et verisimiliter varietas.

**Leptosphaeria Heufleri** (Niessl) Sacc. Syll. Pyr. II, p. 83. *Sphaerella Heufl.* Niessl Beitr. p. 17 t. III, fig. 13. Winter Pilze II, p. 411.

*Hab. in sporangis siccis Polytrichi formosi ad «Eislöcher» prope «Eppan Tyroliae»* (Tab. XL, fig. 7. — Ex Niessl. l. c.).

Perithecia gregaria, 50-100  $\mu$ . d.; asci 32-42  $\approx$  16-19; sporidia 14-16  $\approx$  3-4. Vere *Leptosphaeria* genuina? Specimina non vidi.

**Leptosphaeria fusispora** Niessl Beitr. p. 27 tab. IV, fig. 26. Sacc. Syll. Pyr. II, p. 18. Winter Pilze II, p. 462. *Leptosphaeria salicaria* Pass. Micr. Ital. n. 10. Sacc. Syll. Pyr. II, p. 23. *Leptosphaeria cruenta* Sacc. Mich. II, p. 318, Syll. Pyr. II, p. 25. *Lept. Capparidis* Pass. l. c. n. 9. Sacc. Syll. l. c. p. 24.

*Hab. in ramulis Genistae tinctoriae et ad caules Capparidis, Lythri Salicariae, Onobrychidis et Thalictri flavi in «Germania, Italia et Gallia»* (Tab. XLI, fig. 1. — Ex specim. orig. in *Onobrych. sativa*.).

Perithecia  $1\frac{1}{5}$ - $1\frac{1}{4}$  mm. d.; asci 90-100  $\approx$  8-9; sporidia 22-25  $\approx$  3-4. In specim. minibus *L. cruentae* perithecia majora adsunt sed ad *Phomam* mihi videntur pertinere. Maculae rubrae a fungillo alienae. Valde affinis *L. Bocconiae*.

**Leptosphaeria juncina** (Auersw.) Sacc. Syll. Pyr. II, p. 66. Winter Pilze II, p. 449. *Sphaeria juncina* Auersw. in Rab. Fungi Eur. n. 748. *Sphaerella juncina* Auersw. in Pyr. Myc. Eur. p. 18 t. VI, fig. 74.

*Hab. in calamis aridis Junci in «Germania, Britannia et Lusitania»* (Tab. XLI, fig. 2. — Ex specim. Winterianis.).

Perithecia  $\frac{1}{8}$  mm. d.; asci 60-70  $\approx$  10-12; sporidia 23-26  $\approx$  3  $\frac{1}{2}$ -4  $\frac{1}{2}$ .

**Leptosphaeria eustoma** (Fries) Sacc. Mycol. Ven. p. 210, Fungi it. tab. 497. Syll. Pyr. II, p. 61. Winter Pilze II, p. 445. *Sphaeria eustoma* Fries. Fr. El. II, p. 109. *Pleospora eustoma* Fuck. Symb. p. 139 tab. III, fig. 22.

*Hab. in culmo, vaginis et pedunculis Sorghi vulgaris, Phragmitis, nec non in caulibus foliisque plantarum variarum in «Germania, Gallia et Italia»* (Tab. XLI, fig. 3. — Ex specim. Gallicis in Herb. Sacc.).

Perithecia sparsa,  $1\frac{1}{7}$ - $1\frac{1}{10}$  mm. d.; asci 55-60  $\approx$  7-10; sporidia 17-20  $\approx$  4-5. Species plures ad hanc adscripti et ut ejus formas notavi. Formae haec saepe tamen inter se tam parum differunt ita ut separatio quædam valde ardua sit.

**Forma punctoidea** Karst. in Hedw. 1884 n. 1 p. 2. et Rev. atque Synop. Ascom. fenn. p. 53 (ut sp.) Berl. et Vogl. Add. Syll. p. 140 (ut sp.).

*Hab. in caulibus emortuis Asparagi officinalis ad «Mustiala Fenniae»* (Tab. XLI, fig. 4. — Ex specim. orig. a claro Karst. benevole communic.).

Perithecia sparsa,  $1\frac{1}{6}$ - $1\frac{1}{5}$  mm. d.; asci 55-65  $\approx$  7-10; sporidia 18-20  $\approx$  3-4.

**Forma major** Berl. *Leptosphaeria dumetorum forma Meliloti* Rehm. Ascom. n. 688. *Lept. dum.* Thymen Myc. Un. n. 2248 *Lept. dum. Var. Marrubii* Sacc. Syll. Pyr. II, p. 15.

*Hab. in caulibus Meliloti albi et Marrubii vulgaris prope «Königstein» in «Germania et Italia»* (Tab. XLI, fig. 5. — Ex specim. orig.).

Perithecia sparsa vel laxe gregaria,  $\frac{1}{4}$  mm. d.; asci 60-65  $\approx$  8-9; sporidia 18-20  $\approx$  5-6. Magnitudine peritheciorum verisimiliter ut species habenda.

**Forma Tritici** (Garov.) Pass. M. n. p. 859 (ut sp.). *Pleospora Tritici* Gar. Arch. trienn. I, p. 123 t. XII f. 1-6.

*Hab. in foliis Tritici vulgaris languidis* « Rieti, Ravenna, Parma, Ital. bor. » (**Tab. XLI, fig. 6.** — Ex specim. in Rab fungi Eur. n. 2333).

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{8}$  mm. d.; asci 50-55  $\approx$  11-13; sporidia 18-20  $\approx$  4 $\frac{1}{2}$ -5 $\frac{1}{2}$ .

**Forma Molluginis** Pass. Diagn. fung. nuovi IV, 1890 p. 5 (ut sp.).

*Hab. in caulis Galii Molluginis prope* « Parma Ital. bor. » (**Tab. XLII, fig. 1.** — Ex specim. orig. a claro Pass. benevole communic.).

Perithecia sparsa,  $\frac{1}{4}$  min. d.; asci 65-75  $\approx$  10-12; sporidia 18-22  $\approx$  4-5.

**Forma vinealis** Pass. in Thuem. Pilze d. Weinst. p. 133. Speg. Ampel. ital. n. 25, t. XV (ut species).

*Hab. in foliis sarmensisque languidis Vitis viniferae* « Parma, Conegliano, Avellino Ital. » (**Tab. XLII, fig. 2.** — Ex specim. orig. a claro Pass. benevole communicatis).

Perithecia subgregaria,  $\frac{1}{9}$ - $\frac{1}{8}$  mm. d.; asci 65-70  $\approx$  10-12; sporidia 19-22  $\approx$  4 $\frac{1}{2}$ -5.

**Forma Apogon** Sacc. et Speg. Mich. I, p. 398. Fungi it. t. 326 (ut sp.).

*Hab. in calamis Scirpi Holoschaeni putrescentibus* « Conegliano Ital. bor. » (**Tab. XLII, fig. 3.** — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; asci 50-60  $\approx$  11-14; sporidia 19-23  $\approx$  4 $\frac{1}{2}$ -5 $\frac{1}{2}$ .

**Forma eustomoides** Sacc. Fungi Ven. Ser. II, p. 319. F. it. t. 277 (ut sp.).

*Hab. in culmis Andropogonis Ischoemi* « Narvesa, Treviso Ital. bor. » (**Tab. XLII, fig. 4.** — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{8}$  mm. d.; asci 55-65  $\approx$  8-10; sporidia 18-20  $\approx$  4-5.

**Forma Typhae** Karst. Myc. Fenn. II, p. 99. Sacc. Fungi it. t. 483. Syll. Pyr. II, p. 64 (ut sp.). *Sphaeria perpusilla* B. *Typhae* Rabenh. F. E. ed. II, n. 831 (teste Karst.) *Leptospha. Typhae* Winter Pilze II, p. 450.

*Hab. in calamis putrescentibus Typhae latifoliae in* « Fennia, Germania, Gallia et Italia » (**Tab. XLII, fig. 5.** — Ex specim. a claro Karst. benevole communic.).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{9}$  mm. d.; asci 55-65  $\approx$  9-12; sporidia 18-20  $\approx$  4-5.

**Forma Corallorhizae** Peck 38 Rep. St. Mus. p. 105, tab. 2, fig. 20-23. Berl. et Vogl. Add. Syll. p. 135 (ut species).

*Hab. in caulis emortuis Corallorhizae multiflorae* « Caroga Amer. bor. » (**Tab. XLII, fig. 6.** — Ex spec. orig. a cl. Peck benevole communic.).

Perithecia numerosa,  $\frac{1}{9}$ - $\frac{1}{8}$  mm. d.; asci 55-65  $\approx$  9-12; sporidia 18-22  $\approx$  4-5.

**Forma Lunariae** (B. et Br.) Sacc. Syll. Pyr. II, p. 57. (ut sp.) *Sphaeria Lunariae* B. et Br. Not. Brit. Fungi n. 892, t. 11, f. 36.

*Hab. in siliquis Lunariae in «Britannia» et «Conegliano Ital. bor.»* (Tab. XLII, fig. 7. — Ex specim. ital. in herb. Sacc.).

Perithecia sparsa vel gregaria,  $\frac{1}{7}\text{-}\frac{1}{8}$  mm; d.; asci 65-75  $\approx$  10-12; sporidia 18-20  $\approx$  5-6.

**Forma carpophila** Sacc. Fungi Ven. Ser. II, p. 314. Fungi it. t. 270. Syll. Pyr. II, p. 57. (ut sp.) *Lept. bractearum* Sacc. Mich. I, p. 397. Syll. l. c. p. 58.

*Hab. in capsulis siccis Tecomae radicantis cultae «Selva, Treviso Ital. bor.»* (Tab. XLIII, fig. 1. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{9}\text{-}\frac{1}{8}$  min. d.; asci 65-70  $\approx$  10; sporidia 18-21  $\approx$  4-5.

**Forma Aglaja** Sacc. Fung. Ven. Ser. II, p. 310, F. it. t. 267. Syll. Pyr. II, pag. 48 (ut species).

*Hab. in foliis Oxalidis strictae prope «Treviso Ital. bor.»* (Tab. XLIII, fig. 2. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia  $\frac{1}{9}$  mm. d.; asci 45-50  $\approx$  10-12; sporidia 16-18  $\approx$  3-4  $\frac{1}{2}$ .

**Forma marginalis** Sacc. Mich. II, p. 244. Mycoth. Ven. n. 1162. F. it. t. 262. Syll. Pyr. II, p. 52.

*Hab. in foliis Albizziae Julibrissim adhuc vivis «Vittorio Ital. bor.»* (Tab. XLIII, fig. 3. — Ex specim. orig. a claro Sacc. benev. communic.).

Perithecia  $\frac{1}{10}\text{-}\frac{1}{9}$  mm. d.; asci 60-65  $\approx$  10; sporidia 18-21  $\approx$  4-5.

**Forma Lathonia** Sacc. Fungi Ven. II, p. 310. Fungi ital. tab. 261. Syll. Pyr. II, p. 48 (ut species).

*Hab. in foliis Hellebori viridis in «Italia bor.»* (Tab. XLIII, fig. 4. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia  $\frac{1}{10}\text{-}\frac{1}{9}$  mm. d.; asci 50-55  $\approx$  7-10; sporidia 16-18  $\approx$  3-4) ad *Metaspheeriam* vergit.

**Forma Lucilla** Sacc. Fung. Ven. II, p. 310-311. Fungi it. t. 265. Syll. Pyr. II, p. 52.

*Hab. in foliis languidis Piri communis in agro «Tarvisino et Patavino Ital. bor.»* (Tab. XLIII, fig. 5. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia  $\frac{1}{10}\text{-}\frac{1}{9}$  mm. d.; asci 55-65  $\approx$  10-12; sporidia 20-22  $\approx$  4-5.

**Forma Lucina** Sacc. Fungi Ven. Ser. II, p. 311. F. it. t. 263. Syll. Pyr. II, pag. 52.

*Hab. in foliis Cytisi Laburni emortuis in «Ital. bor. et Gallia»* Tab. XLIII, fig. 6. — Ex specim. orig. a claro Sacc. benev. communic.).

Perithecia  $\frac{1}{8}$  mm. d.; asci 55-65  $\approx$  10-12; sporidia 18-20  $\approx$  5-6.

**Forma Salicinearum** (Pass.) Sacc. Syll. Pyr. II, p. 50. *Sphaerella Salicinaeरुम* Pass. Hedw. 1868 p. 172. *Leptosp. Aegira* Sacc. et Speg. Mich. I, p. 153, F. it. t. 257. Sacc. Syll. Pyr. II, p. 51 *Leptosp. Dryadea* Sacc. Fungi Ven. Ser. II, p. 311. Fungi it. t. 258. Syll. Pyr. II, p. 50. *Leptosp. Decai-*

*sneana* Sacc. Syll. Pyr. II, p. 50. *Depazea Decaisneana* Crié sur les Dep. p. 44, t. VIII, fig. 3.

*Hab. in foliis Populi nigrae et Salicis albae in « Italia sup. »* **Tab. XLIV,**  
**fig. 1.** — Ex specim. orig. a claro Pass. benevole communicatis).

Perithecia  $\frac{1}{10}$ - $\frac{1}{9}$  mm. d.; asci 60-65  $\approx$  8-10; sporidia 17-19  $\approx$  5-6.

**Forma fuscidula** Pass. Diagn. Fung. n. II 1887, p. 9. Sacc. Add. Syll. Pars. I, p. 793 (ut sp.).

*Hab. in foliis aridis Melicae altissimae in « Regio Horto Bot. Parmensi. »* **(Tab. XLIV, fig. 2.)** — Ex specim. orig. a claro Pass. benev. communic.).

Perithecia  $\frac{1}{9}$ - $\frac{1}{8}$  mm. d.; asci 65-80  $\approx$  10-12; sporidia 18-20  $\approx$  5-6.

**Forma parvula** Niessl Beitr. p. 23, t. III, f. 17. Sacc. Syll. Pyr. II, p. 69. (ut sp.).

*Hab. in foliis languescentibus Iridis Pseudacori prope « Brünn Moraviae »* **(Tab. XLIV, fig. 3.)** — Ex specim. orig. a claro Niessl. benev. communic.).

Perithecia  $\frac{1}{7}$ - $\frac{1}{6}$  mm.; asci 58-65  $\approx$  10-12; sporidia 18-21  $\approx$  4-5.

**Forma elaeospora** Sacc. Syll. Pyr. II, p. 65. *Lept. Graminum f. elaeospora* Sacc. Mich. II, p. 321. *Perisporium Arundinis* Roum. Fungi Gall. n. 764, p. p.

*Hab. in foliis Phragmitis communis « Perpignan Galliae »* **(Tab. XLIV, fig. 4.)** — Ex specim. orig. in Roum. Fungi Gall. exicc. n. 764).

Perithecia sparsa  $\frac{1}{9}$ - $\frac{1}{8}$  mm. d.; asci 50-60  $\approx$  11-13; sporidia 18-20  $\approx$  4-5.

**Forma Musarum** Sacc. et Berl. Micetes Guineens. p. 3 in Rev. Myc. 1889 (ut species) Sacc. Suppl. Syll. Pars I, p. 784 (ut sp.).

*Hab. in foliis Musarum « S. Thomé Afr. Occ. »* **(Tab. XLIV, fig. 5.)** — Ex specim. orig. in Herb. Sacc.).

Perithecia gregaria,  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; asci 65-75  $\approx$  10-12; sporidia 16-19  $\approx$  4-6.

**Forma rivularis** Sacc. Bomm. et Rouss. Suppl. Syll. Pars I, p. 787.

*Hab. in caulis Alismatis Plantaginis « Remouchamps Belgii ».*

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 85-95  $\approx$  15-18; sporidia 20-22  $\approx$  5-7 flava.

**Forma olericola** (B. et C.) Sacc. Syll. Pyr. II, p. 21. (ut sp.). *Sphaeria olericola* B. et C. North. Amer. Fungi n. 938.

*Hab. in caulis Brassicae in « Amer. bor. et Fennia. »*

Perithecia gregaria,  $\frac{1}{7}$ - $\frac{1}{6}$  mm. d.; asci 55-65  $\approx$  8-10; sporidia 22-24  $\approx$  4-5, triseptata melco-viridula.

**Forma Ailanthi** Karst. et Har. Journ. Bot. 1889, p. 206. Sacc. Suppl. Syll. Pars I, p. 781, (ut species).

*Hab. ad ramulos Ailanthi glandulosae in « Gallia ».*

Perithecia sparsa, minuta, 200  $\mu$ . d.; asci 75-85  $\approx$  8-10; sporidia 22-24  $\approx$  3-4, triseptata, pallide melcea.

**Leptosphaeria eustoma var. endophaena** Bomm. Rouss. et Sacc. Suppl. Syll. Pars I, p. 781.

*Hab. in ramis emortuis Ailanthi glandulosae « Watermael Belgii ».*

Perithecia sparsa  $\frac{1}{4}$  mm. d.; ascii 100-110  $\approx$  14-16; sporidia 18-21  $\approx$  5-6, flavo-olivascentia.

**Leptosphaeria vagabunda** Sacc. F. ven. II, p. 318, p. p. Penzig Fungi Agr. p. 30, tab. 1114 Brunaud Contr. Fl. Myc. Ovest. Pyren. p. 163. p. p. Winter Die Pilze II, p. 465, p. p. Berlese. Alcune sp. poco note Lept. p. 7. *Sphaeria fuscella* Sacc. p. p. (non B. et Br.).

*Hab. in ramulis caulibusque plantarum plurium in « Italia bor., Gallia et Germania »* (**Tab. XLV fig. 1.** — Ex specim. orig. a cl. Sacc. benevole communic.).

Perithecia sparsa vel leniter gregaria, 150-200  $\mu$ . diam.; ascii 100-110  $\approx$  10-12; sporidia 20-22  $\approx$  5-6.

**Leptosphaeria Lemaneae** (Cohn. et Wor.) Sacc. Syll. Pyr. II, p. 84 Wint. Pilze II, p. 440. *Sphaeria Lemaneae* Cohn. et Wor. in Beitr. Z. Morph. und. Phys. d. Pfl. III, p. 1, t. 1. *Leptosphaeria fluviatilis* Sacc. Syll. Pyr. II, p. 84. *Sphaeria fluviatilis* Ph. et Pl. Grev. X, p. 73.

*Hab. sub aqua in thallo Lemaneae fluviatilis in fluviis prope « Freuburg, Baden, Germaniae, et Longmynd » Britanniae* (**Tab. XLV, fig. 2.** — Ex specim. orig. *L. fluviatilis* a cl. Plowright benevole communic.).

Perithecia 70  $\mu$ . diam.; ascii 55-65  $\approx$  10-12; sporidia 19-21  $\approx$  4-5.

**Leptosphaeria donacina** Sacc. Myc. Ven. Spec. 107, tab. X, fig. 39-42. F. it. t. 504. Syll. Pyr. II, p. 63.

*Hab. in culmis emortuis Arundinis Donacis, « Padova Ital. bor. »* (**Tab. XLV, fig. 3.** — Ex specim. orig. a cl. Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{4}$  mm. d.; ascii 85-95  $\approx$  10-12; sporidia 22-24  $\approx$  5-6.

**Leptosphaeria Crepini** (Vest.) De Not. Nuov. Recl. Piren. ital. p. 10. Syll. Pyr. II, p. 79. Winter Pilze II, p. 441. *Sphaeria Crepini* West. 6. Not. Belg. p. 17. *Sphaeria Marcyensis* Peck 31 Rep. on the St. Mus. N. Y. et Hedw. 1881, p. 157. *Lept. Marcyensis* Sacc. Syll. Pyr. II, p. 80. *Sphaeria Lycopodiocola?* Mont. Syll. n. 860. *Lept. lycopod.* Sacc. Syll. Pyr. II, p. 81.

*Hab. in foliis Lycopodii annotini et L. Selaginis in « Fennia, Belgio, Germania, Italia Amer. bor. »* (**Tab. XLV, fig. 4.** — Ex specim. in Rehm Ascom. n. 886).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; ascii 65-78  $\approx$  12-14; sporidia 20-24  $\approx$  5-7.

**Leptosphaeria hiemalis** Sacc. et Speg. Mich. I, p. 395. Fungi it. t. 365. Syll. Pyr. II, p. 81.

*Hab. in caulibus Equiseti hiemalis et E. ramosi in « Italia bor. et Gallia »* (**Tab. XLV, fig. 5.** — Ex specim. orig. a cl. Sacc. benevole communic.).

Perithecia sparsa  $\frac{1}{4}$  mm. d.; ascii 100-110  $\approx$  12-15; sporidia 23-25  $\approx$  6-7.

**Leptosphaeria Phytolaccae** Cav. Mat. Myc. Lomb. p. 11, t. I, fig. 3. Sacc. Suppl. Syll. Pars I, p. 736.

*Hab. in caulibus vetustis Phytolaccae decandrae « Torre d'Isola » proprie-*

« Pavia Italiae » (Tab. XLV, fig. 6. — Ex specim. orig. a cl. Briosi benevole communic.).

Perithecia gregaria,  $\frac{1}{3}$  mm. et amplius diam.; asci 85-100  $\approx$  9-12; sporidia 25-30  $\approx$  5-6. Afinis *L. eustomae* sed major et peritheciis collapsis.

**Leptosphaeria Micropogon** Sacc. Fungi Ven. Ser. II, p. 320. Fungi it. t. 275. Syll. Pyr. II, p. 63.

*Hab. in calamis* Scirpi Holoschaeni « Vidor, Treviso Ital. bor. » (Tab. XLVI, fig. 1. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia hinc inde gregaria, plagulas nebulosas efficientia setulosa; setulæ 20-22  $\approx$  4-6; asci 75-85  $\approx$  10-12; sporidia 18-22  $\approx$  4  $\frac{1}{2}$ -5.

**Leptosphaeria Parietariae** Sacc. Mycol. Ven. p. 106, t. X, fig. 32-34. Syll. Pyr. II, p. 23.

*Hab. in caule exsiccato* Parietariae officinalis « Padova Ital. bor. » (Tab. XLVI, fig. 2. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{7}$ - $\frac{1}{8}$  mm. d.; asci 65-70  $\approx$  8; sporidia 22-25  $\approx$  3-4.

**Leptosphaeria personata** Niessl in Rabenh. F. Eur. n. 1933. Bot. Jahresb. 1875 p. 262. Syll. Pyr. II, p. 59. *Leptosphaeria obesula* Sacc. Mich. II, p. 318. Syll. Pyr. II, p. 15.

*Hab. in culmis siccis* Airae caespitosae et in caulis herbarum majorum in « Austria, Gallia et Belgio. » (Tab. XLVI, fig. 3. — Ex specim. orig. *L. obesulae*. a cl. Sacc. benevole comm. cum iis orig. *L. personatae* minutum comp.).

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 55-65  $\approx$  18-24; sporidia 21-23  $\approx$  5-6.

**Leptosphaeria Silenes-acaulis** De Not. Recl. Pyr. p. 485. Sacc. I. c. p. 47.

*L. Hausmanniana?* Auersw. in Hedwigia 1868 p. 185. Sacc. Syll. Pyr. II, p. 47.

*Hab. in pagina superiore foliorum emortuorum* Silenes-acaulis in « Tyrolia » et « Vette di Valdobbia Ital. bor. » et « Green Harbour Spitzbergiae » (Tab. XLVI, fig. 4. — Ex specim. in Rab.- Winter Fung. Europ. n. 2765 cum originalibus comparatis.).

Perithecia sparsa vel subgregaria,  $\frac{1}{8}$  mm. d.; asci 45-55  $\approx$  14-16; sporidia 30-32  $\approx$  4 $\frac{1}{2}$ -6.

**Leptosphaeria Digitalis** (Crouan) Sacc. Syll. Pyr. II, p. 85, Berl. et Brs. Fungi Trid. p. 33, tab. III, fig. 2. *Sphaeria Digitalis* Crouan Finist. p. 28.

*Hab. in caulis emortuis* Digitalis in Gallia et Tyrolia. (Tab. XLVI, fig. 5. — Ex specim. Tridentinis).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 70-80  $\approx$  8-10; sporidia 24-28  $\approx$  4-5.

**Leptosphaeria Marram** (Cooke) Sacc. Syll. Pyr. II, p. 60. *Sphaeria Marram* Cooke Grev. V. p. 120.

*Hab. in culmis Ammophilae* « Happisburg Britanniae » (Tab. XLVI, fig. 6.

— Ex specim. orig. a claro Cooke benevole communic.).

Perithecia sparsa,  $\frac{1}{7}\text{-}\frac{1}{6}$  mm. d.; asci 65-75  $\times$  12-14; sporidia 25-27  $\times$   $4\frac{1}{2}\text{-}5\frac{1}{2}$ .

**Leptosphaeria patelliformis** Pass. Diagn. Funghi nuovi 1888 p. 59.

*Hab. in culmo Zeae* Maydis *prope* « Parma Ital. bor. » (**Tab. XLVII, fig. 1.**)

— Ex specim. orig. a claro Passerini benevole communic.).

Perithecia sparsa, collapsa,  $\frac{1}{5}\text{-}\frac{1}{4}$  mm. d.; asci 50-55  $\times$  8-10; sporidia 16-18  $\times$  4-5. A *L. pyrenopezizoides* differt sporidiis minoribus obtusioribusque.

**Leptosphaeria haematites** (Rob.) Niessl in Rabh. Wint. Fungi eur. n. 2761 et in Hedwigia 1883, n. 5. Sacc. Syll. Pyr. II, p. 36 et Add. LVI. Winter Pilze II, p. 470. *Sphaeria haemat.* Rob. in Desm. XIX Not. p. 16. *Leptosphaeria pyrenopezizoides* Sacc. et Sp. Mich. I, p. 394, Sacc. Syll. Pyr. II, p. 23, et Fungi It. tab. 323. Berlese Fungi Mor. fasc. IV t. XXX fig. 5-10. *Sphaerella haematites* Cooke Journ. Bot. 1883, p. 109. *Didymella haem.* Sacc. Syll. Pyr. I, p. 553.

*Hab. in sarmenitibus Clematidis Vitalbae et in ramulis Mori albae in « Gallia, Germania et Italia »* (**Tab. XLVII, fig. 2.**) — Ex specim. orig. *L. pyrenopezizoides* cum iis originalibus *Lept. haematites* in Desm. Fl. Crypt. Fr. n. 12 minutum comparatis. In tabula nomen corrigere).

Perithecia sparsa  $\frac{1}{6}\text{-}\frac{1}{5}$  mm. d.; asci 65-75  $\times$  8-10; sporidia 24-27  $\times$  3-4  $\frac{1}{2}$ .

**Leptosphaeria Aconiti** Sacc. Fungi Ven. Ser. II, p. 315, Syll. Pyr. II, p. 24.

*Hab. in caulinibus aridis Aconiti Napelli prope « Treviso » Ital. bor.* (**Tab. XLVII, fig. 3.**) — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 85-95  $\times$  11-13; sporidia 22-25  $\times$  6-7. Affinis *L. Doliolo*, a qua sporidiis distichis crassioribus distinguitur.

**Leptosphaeria Parmeliarum** (Ph. et Pl.) Sacc. Syll. Pyr. II, p. 85. *Sphaeria Parmeliarum* Phill. et Plowr. Grevill. IV, p. 124, t. 62, fig. VIII.

*Hab. in Parmelia saxatili, « North Walles Britanniae. »* (**Tab XLVII, fig. 4.**)

— Ex specim. orig. a claro Plowr. benevole communic.).

Perithecia conferta,  $\frac{1}{3}$  mm. d.; asci 100-110  $\times$  9-12; sporidia 22-24  $\times$  6-7.

**Leptosphaeria Coniothyrium** Sacc. in Nuov. Giorn. Botan. Ital. VII 1875, p. 317. Syll. Pyr. II, p. 29. *Sphaeria Coniothyrium* Fuck. Symb. mycol. p. 115, Winter Pilze II, p. 464.

*Hab. in sarmenitibus ramisque emortuis variis, praecipue Ruborum, in « Germania, Italia, Lusitania, Gallia »* (**Tab. XLVII, fig. 5.**) — Ex specim. orig. a cl. Saccardo benevole communicatis).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 85-95  $\times$  6-8; sporidia 13-15  $\times$  4  $\frac{1}{2}$ -5.

**Leptosphaeria conoidea** De Not. Micr. Ital. dec. IX, f. 7. (ut var. *L. Dolioli*). Sacc. Fungi Ven. Ser. II, p. 314. Syll. Pyr. II, p. 14. Winter Pilze II, p. 461 (ut var. *L. Dolioli*) *Sphaeria Helena* Curr. Linn. Trans. XXII, t. 59, fig. 137.

*Hab. in caulinibus Angelicae, Urticae etc. nec non in ramulis Pteridis a-*

quilinae in « Italia, Fennia, Germania et Britannia » (**Tab. XLVII, fig. 6.** — Ex specim. *L. Dolioli* formae *conoideae minoris* a claro Niessl in *Pteride aquil.* in « Styria » lectis) Species aptius ut Var. *L. Dolioli* habenda.

Perithecia sparsa vel subgregaria,  $\frac{1}{4}$  mm. d.; asci 70-80  $\times$  8-9; sporidia 16-18  $\times$  4-5.

**Leptosphaeria Doliolum** (Pers.) De Not. Schem. Sfer. p. 61, Sacc. Syll. Pyr. II, p. 14. Winter Pilze II, p. 460 *Sphaeria Doliolum* Pers. Syn. Fung. pag. 78.

*Hab. in caulis emortuis plantarum plurium in « Suecia, Britannia, Galilia, Italia, Belgio, Germania, Fennia, Carolina ».* (**Tab. XLVIII, fig. 1** — Ex specim. *Pleosporae Dolioli* in Rehm Ascom. n. 194 cum specim. pluribus e regionibus variis minutim comparatis).

Perithecia sparsa vel subgregaria,  $\frac{1}{3}$  mm. d.; asci 100-110  $\times$  8-10; sporidia 20-23  $\times$  4-5.

**Forma subconica** (C. et P.) Sacc. Syll. Pyr. II, p. 15 (ut species) *Sphaeria subconica* C. et Peck. 29 Rep. on the St. Mus. New York.

*Hab. in caule herbarum in « Amer. bor. »* (**Tab. XLVIII, fig. 2.** — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 95-105  $\times$  6-7; sporidia 18-20  $\times$  4-5 (numquam 30, ut clarus Cooke scribit.). Aegre ut Var. *L. Dolioli* habenda, aptius huic adscribenda.

**Leptosphaeria Thomasiana** Sacc. et Roum. in Ber. Myc. 1883 tab. 40, fig. 10. Suppl. I. Syll. p. 779.

*Hab. in sarmentis Rubi emortuis in « Gallia »* (**Tab. LXVIII, fig. 3.** — Ex specim. orig. a cl. Sacc. benevole commun.).

Perithecia dense gregaria,  $\frac{1}{3}$  mm. d., duriuscula; asci 80-90  $\times$  8-10; sporidia 18-21  $\times$  5-6.

Contextu peritheciorum in primis, vix *Leptosphaeria*, aptius *Melanomma*.

**Leptosphaeria anthophila** S. et S. Mich. I, p. 396. Fungi it. tab. 364. Syll. Pyr. II, p. 58.

*Hab. in inferiore parte anthodii secedentis putrescentis Carlinae acaulis « Cansiglio Ital. bor. »* (**Tab. XLVIII, fig. 4.** — Ex specim. orig. a cl. Sacc. benevole commun.).

Perithecia sparsa vel gregaria,  $\frac{1}{3}$  mm. d.; asci 90-100  $\times$  10-12; sporidia 22-25  $\times$  5-6.

Affinis *L. Dolioli*, a qua differt peritheciis vix sulcatis et vix minoribus. An satis?

**Leptosphaeria suffulta** (Nees) Niessl in Rab. F. E. n. 1549. Sacc. Fungi it. t. 490. Syll. Pyr. II, p. 14. Winter Pilze II, p. 461. *Sphaeria suffulta* Nees Syst. p. 316, f. 388.

*Hab. in ramulis Melampirorum in « Germania, Italia, Austria »* (**Tab.**

**XLVIII, fig. 5.** — Ex specim. Niessleanis in Rab. Fungi Eur. n. 1549 cum italicis comparatis.).

Perithecia sparsa,  $\frac{1}{3}$  et usque fere  $\frac{1}{2}$  mm. d.; asci 85-95  $\approx$  7-9; sporidia 24-28  $\approx$  3  $\frac{1}{2}$ -4.

**Leptosphaeria clivensis** (B. et Br.) Sacc. Syll. Pyr. II, p. 16, *Sphaeria clivensis* B. et Br. Not. Brit. Fungi n. 643, t. 11, fig. 29. *Pleospora Libanotis* Fuck. Symb. Myc. App. II, p. 24. *Leptosphaeria Libanotis* Sacc. Syll. Pyr. II, p. 16. *Sphaeria praetermissa* Karst. Myc. Fenn. II, p. 89, *Leptosphaeria praetermissa* Sacc. Syll. Pyr. II, p. 26.

*Hab. in caulis Pastinaceae, Senecionis, Libanotis, Dauci, Seseli etc. in «Britannia, Germania et Fennia»* (**Tab. XLIX, fig. 1.** — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia coriacea, crassa,  $\frac{1}{2}$  mm. d., subgregaria; asci 125-135  $\approx$  11-13; sporidia 22-25  $\approx$  6-7 $\frac{1}{2}$ . Specimina australiana (in Sacc. Fungi Austr.) potius ad *L. Dumetorum* pertinent.

**Leptosphaeria leptospora** (De Not.) Sacc. Syll. Pyr. II, p. 16. *Cucurbitaria leptospora* De Not. Sfer. ital. p. 62, t. 61.

*Hab. in caulis siccis Dianthi atrorubentis, «Valle Intrasca Ital. bor.»* (**Tab. XLIX, fig. 2.** — Ex specim. original. in Erb. Critt. ital. Ser. I, n. 59.

Perithecia sparsa,  $\frac{1}{3}$  et amplius mm. d.; asci 90-100  $\approx$  8-10. Sporidia 20-22  $\approx$  5-6. Affinis *L. clivensi*.

**Leptosphaeria galicola** Sacc. Myc. Ven. 104 tab. X, fig. 22-23, Syll. Pyr. II, p. 21.

*Hab. ad caules emortuos Galii Molluginis «Padova Ital. bor.»* (**Tab. XLIX, fig. 3.** — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 80  $\approx$  8; sporidia 15-18  $\approx$  5  $\frac{1}{2}$ -6  $\frac{1}{2}$ .

**Leptosphaeria consessa** (C. et E.) Sacc. Syll. Pyr. II, p. 17, *Sphaeria consessa* E. et E. Grev. VI, p. 95, t. 100, f. 37.

*Hab. in caulis Helianthi «New Jersey Amer. bor.»* (**Tab. XLIX, fig. 4.** — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 105-115  $\approx$  8-10.; sporidia 16-18  $\approx$  5-6.

**Leptosphaeria socialis** Berl. sp. nova. Peritheciis sparsis vel subgregariis  $\frac{1}{8}$  mm. d. globoso-conoideis, tectis; ascis 60-65  $\approx$  12-16; sporidiis triseptatis 15-18  $\approx$  5-6.

*Hab. in caulis Asparagi officinalis in «Fennia,» sociis *L. praeclara*, *L. Asparagi* et *L. punctoidea* (**Tab. XLIX, fig. 5.**).*

**Leptosphaeria Solani** Romell. in Herb. Sacc.

*Hab. in caulis Solani Dulcamarae ad «Visley Gotlandiae Sueciae»* (**Tab. XLIX, fig. 6.** — Ex specim. orig. in herb. Sacc.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 75-85  $\approx$  9-11; sporidia 14-16  $\approx$  6-7. A *Leptosphaeria sociali* peritheciis valde majoribus in primis differt.

**Leptosphaeria gillotiana** Sacc. et Roum. in Rev. Myc. 1883, p. 236, tab. 40, fig. 9, Suppl. Syll. Pars. I, p. 777.

*Hab. in ramis corticatis Salicis* in « Gallia » (**Tab. 4, fig. 1.**) — Ex specim. orig. a cl. Sacc. benevole communic.).

Perithecia subgregaria,  $\frac{1}{2}$  mm. d.; asci 70-80  $\times$  10-12; sporidia 16-18  $\times$  6-7.

Potius *Melanomma* forma subcorticalis.

**Leptosphaeria conjugata** (De Not.) Berl. *Sphaeria conjugata* De Not. Sf. it. p. 64, t. 64. *Melanomma conjugatum* Sacc. Syll. Pyr. II, p. 107.

*Hab. in ramis siccis Populi (?)* in « Monte Cenisio Ital. bor. » (**Tab. L, fig. 2.**) — Ex specim. orig. a claro Pirotta benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 90 100  $\times$  8-9; sporidia 16-20  $\times$  5-6.

Inter *Melanomma* et *Leptosphaeriam* fere media sed aptius huic (ut mihi videtur) adscribenda.

**Leptosphaeria acicola** (Fuck.) I, Sacc. Syll. Pyr. II, p. 55, *Pleospora acicola* Fuck. Symb. Myc. App. I, p. 301, App. II, fig. 4, Fungi Rhen. n. 2526. Winter Pilze II, p. 492.

*Hab. in acubus Pini silvestris* « Iohannisberg Germaniae » (**Tab. L, fig. 3.**) — Ex specim. orig. in Fuckel. l. c. a cl. Briosi benevole communic.).

Perithecia  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d. (non 1 mm. ut in Symb. l. c.); asci 60-65  $\times$  8-10; sporidia 18-22  $\times$  4-5.

**Leptosphaeria hyperborea** (Fuck.) Berl. et Vogl. Add. Vol. I-IV Syll. p. 140. Sacc. Suppl. Pars I, Syll. p. 782. *Pleospora hyperborea* Fuck. 2, Deut. Nord-polf. II, p. 92, Oudemans Contr. Fl. Myc. Now. Seml. p. 153, tab. II, fig. 9. *Sphaerella Andromedae* Auersw. Syn. Pyr. p. 12, tab. 7 fig. 12, *Lept. Andr.* Sacc. Syll. Pyr. II, p. 49.

*Hab. in pagina superiore foliorum aridorum Andromedae tetragonac* « Shannon insulae Groenlandiae et Spitsbergen » (**Tab. L, fig. 4.**) — Ex Oud. l. c.)

Perithecia sparsa; asci 60  $\times$  24; sporidia 24  $\times$  8.

**Leptosphaeria Endiusae** (Fuck.) Sacc. Syll. Pyr. II, p. 57, *Pleospora Endiusae* Fuck. Symb. p. 136, Fungi rhen. n. 2030.

*Hab. in leguminibus et caulinibus Endiusae (Ervi) hirsutae* in « Germania » (**Tab. L, fig. 5.**) — Ex specim. orig. in Fuck. l. c. a cl. Briosi benevole communic.).

Perithecia sparsa.  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 55-65  $\times$  8-11; sporidia 18-24  $\times$  4-5.

Numquam inveni sporidia 30  $\mu$ . metientia ut in Symb.

**Leptosphaeria Sarazziniana** Sacc. et Roum. in Rev. Myc. 1884, tab. LV, fig. 2. Berl. et Vogl. Add. Syll. p. 135.

*Hab. in nodis Caryophyllaceac cuiusdam* « Senlis Galliac. » (**Tab. L, fig. 6**) — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 85-100  $\times$  10-12; sporidia 18-21  $\times$  5-6.

**Leptosphaeria Caricae** (Pass.) Berl. *Melanomma Caricae* Pass. Diagn. Fungi Nuovi III, n. 23.

*Hab. in ramis emortuis Fici Caricae prope « Parma Ital. borealis »* (Tab. L, fig. 7). — Ex specim. orig. a cl. Pass. benevole communic.).

Perithecia sparsa, membranacea,  $\frac{1}{4}$  mm. d.; asci 80-100  $\times$  10-12; sporidia 16-18  $\times$  5-6 $\frac{1}{2}$ .

**Leptosphaeria Collumiae** (B. et C.) Sacc. Syll. Pyr. II, p. 50. *Sphaeria Collumiae* B. et C. in N. Pac. Expl. p. 130, n. 164.

*Hab. in foliis Collumiae squarrosae « Capo Buona Speranza Africæ australis. »* (Tab. LI, fig. 1). — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia sparsa  $\frac{1}{4}$  mm. d.; asci 65-75  $\times$  8-10, sporidia 14-17  $\times$  5-6.

**Leptosphaeria platycarpa** Sacc. Mich. I, p. 342, Fungi it. tab. 290 Syll. Pyr. II, p. 30.

*Hab. in ramulis Corni sanguineae « Conegliano Ital. bor. »* (Tab. LI, fig. 2).

— Ex specim. orig. a claro Saccardo benevole communic.).

Perithecia gregaria,  $\frac{1}{5}$  mm. d.; asci 100-110  $\times$  8-10; sporidia 16-18  $\times$  4-6. Valde affinis *L. Collumiae*.

**Leptosphaeria Bommeriana** (Sacc. Bomm. et Rouss.) Berl. *Chaetosphaeria Bommeriana* S. B. et R. in Herb.

*Hab. in caulinibus Epilobii hirsuti in « Belgio ».*

Perithecia  $\frac{1}{2}$  mm. d.; asci 100-110  $\times$  8-12; sporidia 22-25  $\times$  6-7.

**Leptosphaeria Rivana** (De Not.) Sacc. Syll. Pyr. II, p. 83. *Sphaeria Rivana* De Not. Recl. p. 485. *Trichosphaeria Peltigerae?* Fuck. *Sphaeria Caninae* Plowr. et Phill. in Grev. VI, p. 27, t. 94, f. 8. *Lept. Caninae* Sacc. Syll. Pyr. II, p. 81.

*Hab. in thallo Peltigerae caninae « Dunsley Britanniae » et « Riva Valsesia Ital. bor. »* (Tab. LI, fig. 4). — Ex specim. orig. a cl. Pirotta benevole communic.).

Perithecia acervata, matrice nigrescente, fere stromaticâ immersa,  $\frac{1}{8}$  mm. d.; asci tetraspori, 60-65  $\times$  10-12; sporidia 19-22  $\times$  7-8.

**Leptosphaeria fuscella** (B. et Br.) Ces. et De Not. Schema p. 236. Sacc. Syll. Pyr. II, p. 30. *Sphaeria fuscella* B. et Br. Brit. Fung. n. 636, t. XI, fig. 20.

*Hab. in sarmentis Ruborum et Rosarum in « Britannia, Lusitania, Italia, Austria, America boreali »* (Tab. LI, fig. 5). — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 95-105  $\times$  8-10; sporidia 15-17  $\times$  7-8.

**Leptosphaeria hydrophila** Sacc. Fungi Ven. Ser. II, p. 320 Fungi it. t. 280. Syll. Pyr. II, p. 67.

*Hab. in calamis Junci effusi « Selva, Treviso Ital. bor. » (Tab. LI, fig. 6*

— Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{6}\text{-}\frac{1}{8}$  mm. d.; asci 75-85  $\times$  12-14; sporidia 26-28  $\times$  6-7.

**Leptosphaeria subtecta** Wint. Hedw. 1872 p. 145, Sacc. Syll. Pyr. II, p. 49.

*Hab. ad folia arida Ericae carneae prope « Seis Tyroliac » (Tab. LII, fig. 1. — Ex specim. orig. a spect. Directione Musei berolin. benevole commun.).*

Perithecia sparsa, amphigena,  $\frac{1}{6}\text{-}\frac{1}{7}$  mm. d.; asci 100-110  $\times$  12-15; sporidia 22-25  $\times$  6-8.

**Leptosphaeria Galiorum** Sacc. Mycol. Vcn. p. 104. t. X, f. 20-21 (nec Desm.) Syll. Pyr. II, p. 22 *Lept. Rothomagensis* Saccardo in herb. *L. clivensis* Plowright Fungi Brit. Exsicc. n. 60 Thümen Myc. Un. n. 1254.

*Hab. in caulis Galiorum, Senecionum et Veronicac in « Britannia, Italia et Germania. » Specimina Winteriana et Rabenhorstiana ad *L. Dumetorum* pertinent. Species vero in Germania adest, nam eam inveni in speciminibus Winterianis *Lept. striatae*. (Tab. LII, fig. 2. — Ex specim. Plowright. l. c. cum originalibus *L. Rothomagensis* minute comparatis).*

Perithecia sparsa,  $\frac{1}{3}$  et fere  $\frac{1}{2}$  mm. d.; asci 95-105  $\times$  12-15, subinde longe stipitati; sporidia 20-23  $\times$  6-7  $\frac{1}{2}$ .

**Forma Lampsanae** Sacc. et Br. in Rev. Myc. 1885. Berl. et Vogl. in Add. Syll. p. 135.

*Hab. in caulis Lampsanae communis « Troyes Galliae. » (Tab. LII, fig. 3. — Ex specim. orig. a claro Sacc. benevole communic.).*

Perithecia sparsa,  $\frac{1}{3}$  et usque fere  $\frac{1}{2}$  mm. d.; asci 95-105  $\times$  12-15; sporidia 20-22  $\times$  7-8. A tipo aegre distinguenda.

**Leptosphaeria Steironematis** Ellis et Ev. Prooc. Ac. Nat. Scienc. Phil. 1890 p. 236.

*Hab. in Stereonemate ciliato « Canadà Amer. bor. » (Tab. LII, fig. 4. — Ex specim. orig. a claro Ellis benevole communic.).*

Perithecia sparsa,  $\frac{1}{3}\text{-}\frac{1}{2}$  mm. d.; asci 100-110  $\times$  14-18; sporidia 24-26  $\times$  8-10. Quam *L. Galiorum major*. Ceterum ei valde affinis.

**Leptosphaeria Kunzeana** Berl. nova sp. *Lept. typharum* Kunze Fungi sel. Exsicc. n. 256 (non Desm.) Peritheciis sparsis, tectis  $\frac{1}{5}\text{-}\frac{1}{6}$  mm. d.; ascis 80-90  $\times$  20-25; sporidiis triseptatis, 25-28  $\times$  10-12.

*Hab. in calamis Typhae latifoliae in « Germania » (Tab. LII, fig. 5. — Ex specim. *L. typhae* in Kunze l. c.).*

**Leptosphaeria Thypharum** (Desm.) Karst. Myc. Fenn. II, p. 100 Sacc. Fungi it. t. 485. Syll. Pyr. II, p. 64. Winter Pilze II, p. 450. *Sphaeria scirpicola* var. *Typh.* Desm. Crypt. Franc. ed. II, 1428. *Sphaeria Typh.* Rab. Herb. myc. ed. II, n. 731. *Pleospora Typh.* Fuck. Symb. p. 137. *Leptosph. cuhnorum* Auersw. Gen. Doubl. Verz. des Leipz. Tausch-Ver. 1866, p. 4. Winter l. c.

pag. 445. *Lept. microscopica* Karst. Fungi Spet. p. 102. Sacc. Syll. loc. cit. pag. 59.

*Hab. in culmis, vaginis foliisque aridis Typharum, Alopecuri Poae, Tri-seti, Agrostidis, Bromi, etc. in « Spitzbergia, Fennia, Germania, Italia, Gallia, Lusitania, Helvetia »* (**Tab. LIII, fig. 1.** — Ex specim. *Lept. culmorum* Wint-rianis, in *Aira caespitosa*, cum iis originalibus *L. Typharum* et *L. microscopicae* minute comparatis).

Perithecia sparsa,  $1\frac{1}{8}$ - $1\frac{1}{6}$  mm. d.; asci 65-75  $\times$  12-16; sporidia 23-26  $\times$  6-7.

**Leptosphaeria vagans** Karst. Fungi Spetsb. p. 104, Rev. Mon. Asc. Fenn. p. 58. Sacc. Syll. Pyr. II, p. 59.

*Hab. in foliis Dupontiae Fischeri in « Spetsbergia. »* (**Tab. LIII, fig. 2.** — Ex specim. orig. a claro Karst. benevole communic.). Forma *Scirpi* (ex specim. orig.) sporidiis hyalinis gaudet quare ad *Metasphaeriam* transiit.

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 115-125  $\times$  20-24; sporidia 30-32  $\times$  9-11. Valde affinis *L. juncisedae*, cuius est aptius ut var. habenda.

**Leptosphaeria junciseda** Karst. Fungi Spetsb. pag. 101. Sacc. Syll. Pyr. II, pag. 67.

*Hab. in Junco biglumi emortuo ad « Lammebay Spetsbergiae ».* (**Tab. LIII, fig. 3.** — Ex specim. orig. a claro Karst. benevole communic.).

Perithecia sparsa,  $1\frac{1}{5}$ - $1\frac{1}{4}$  mm. d.; asci 90-110  $\times$  22-26; sporidia 31-33  $\times$  9-11.

**Leptosphaeria heterospora** (De Not.) Niessl Beitr. 23. Sacc. Syll. Pyr. II, p. 67. *Sphaeria heterospora* De Not. Sfer. ital. n. 65. *Byssothecium heterosporum* Niessl in Myc. Univ. n. 1361.

*Hab. in rhizomatibus nondum emortuis Iridis germanicae, Ir. pumilae, et Ir. arenariae in « Italia, Austria et Gallia ».* (**Tab. LIII, fig. 4.** — Ex specim. Niessleanis in Rab. Fungi Eur. n. 1361 cum iis originalibus comparatis).

Perithecia sparsa vel subgregaria,  $\frac{1}{3}$  mm. d.; asci 110-120  $\times$  20-25; sporidia 35-38  $\times$  11-13.

**Leptosphaeria agminalis** Sacc. et Morth. Mich. I 498. Fungi it. tab. 634. Sacc. Syll. Pyr. II, p. 23. *Lept. rimalis* Niessl in Kunze F. Sel. n. 337. Winter Pilze II, p. 468.

*Hab. in caule Clematidis Vitalbae in « Helvetia » propere « Neuchâtel, Zürich »* (**Tab. LIII, fig. 5.** — Ex specim. orig. a claro Sacc. benevole communicatis).

Perithecia gregaria,  $1\frac{1}{3}$ - $1\frac{1}{5}$  mm. d.; asci 130-140  $\times$  20-24; sporidia 35-40  $\times$  12-14.

**Leptosphaeria Euphorbiae** Niessl in Rabenh. F. E. n. 1841, et in Just Bot. Jahresb. 1874, p. 319. Sacc. Syll. Pyr. II, p. 24. Winter Pilze II, p. 463.

*Hab. in caule Euphorbiae Cyparissiae in « Austria et Ital. bor. »* (**Tab. LIV, fig. 1.** — Ex specim. in Linhart Fungi Hung. n. 463 a claro Niessl determinatis).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 85-95  $\times$  12-14; sporidia 27-30  $\times$  7-8.

**Leptosphaeria juncicola** Rehm Ascom. Diagn. n. 533. Sacc. Syll. Pyr. II, p. 66. Winter Pilze II, p. 449.

*Hab. ad culmos sicclos Junci Hostii in «alpibus Tyrolensibus».* (Tab. LIV,

**fig. 2.** — Ex specim. orig. in Rehm l. c.).

Perithecia sparsa,  $\frac{1}{5}$ - $\frac{1}{7}$  mm. d.; asci 65-70  $\times$  12-14; sporidia 33-35  $\times$  3 $\frac{1}{2}$ -4. An demum quinqueseptata?

**Leptosphaeria Aparines** (Fuck.) Sacc. Syll. Pyr. II, p. 21. Winter Pilze II, p. 466. *Pleospora Aparines* Fuck Symb. p. 136.

*Hab. in caulis siccis Galii Aparines in «Germania et Britannia».* (Tab. LIV, fig. 3. — Ex specim. Plowrightianis in Cooke Fungi Brit. Exsicc. Ed. II, n. 690).

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 60-70  $\times$  7-8; sporidia 27-30  $\times$  3-4. Verisimiliter hoc spectat *Sphaeria (Metasphaeria) Galiorum* R. et D.

**Leptosphaeria rubicunda** Rehm Ascom. n. 92. Winter Diagn. p. 10 et Pilze II, p. 467. Sacc. Fungi it. tab. 292, Syll. Pyr. II, p. 25.

*Hab. in caulis Umbelliferarum emortuis et in ramis Sambuci nigrae in «Hungaria et Ital. bor.»* (Tab. LIV, fig. 4. — Ex spec. orig. in Rehm l. c.). Media inter *L. fusisporam* et *L. Aparines*.

Perithecia gregaria,  $\frac{1}{7}$ - $\frac{1}{5}$  mm. d.; asci 50-65  $\times$  6-8; sporidia 25-30  $\times$  2,  $\frac{1}{2}$ -3,  $\frac{1}{2}$ .

**Leptosphaeria Weberi** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 11, t. I fig. 7. Berl. et Vogl. Add. Syll. pag. 135.

*Hab. in Ranunculo nivali var. sulphureo, in «Nowaja Semlia»* (Tab. LIV, fig. 5. — Ex Oudem. l. c.).

Perithecia sparsa,  $\frac{1}{10}$ - $\frac{1}{7}$  mm. d.; asci 60-70  $\times$  14-16; sporidia 25-37  $\times$  5-7.

**Leptosphaeria orthogramma** (B. et C.) Sacc. Syll. Pyr. II, p. 60 *Sphaeria orthogramma* B. et C. North Amer. Fungi n. 922. Grevill. n. 34 tab. 80 fig. 11.

*Hab. in culmis Erianthi alopecuroidis et Zeae in «Pennsylvania» et «Carolina, Austr. Amer. bor.»* (Tab. LIV, fig. 6. — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 75-85  $\times$  10-13; sporidia 30-33  $\times$  5-6. (non 50-60  $\times$  10 ut in B. et C. II. cc.) rarissime quinqueseptata.

**Leptosphaeria pratensis** Sacc. et Br. in Rev. Myc. 1885. Berl. et Vogl. Add. Syll. pag. 134.

*Hab. in caulis exsiccatis Medicaginis sativae «Troyes Galliae»* Tab. LV, fig. 1. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia subsparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 80-100  $\times$  10-12; sporidia 28-30  $\times$  4-5.

**Leptosphaeria Ellisiona** Berl. sp. n. *L. subconica* Ellis North Amer. Fungi n. 697 non C. et P.

*Hab. in caulis emortuis Oenotherae biennis* «New Field Amer. bor.» (Tab. LV, fig. 2).

Perithecia sparsa,  $\frac{1}{4}\text{--}\frac{1}{3}$  mm. d.; asci 110-120  $\times$  10-12; sporidia 32-35  $\times$  5-6. A *Lept. argentina* Speg. magnitudine sporidiorum in primis distinguenda.

**Leptosphaeria arundinacea** (Sow.) Sacc. Fungi Ven. Ser. II, p. 320, F. it. t. 276. Syll. Pyr. II, p. 62. Winter Pilze II, p. 448. *Sphaeria arundinacea* Sowerby. Engl. Fungi tab. 336. *Sphaeria Godini* Desm. in Ann. sc. nat. III, Ser. tom. V. p. 49. ? *Sphaeria striaeformis* a *Arundinis* Alb. et Schw. Conspect. p. 15. *Leptosphaeria Godini* Auersw. Tausch.-Verein 1866, p. 4. *Pleospora arundinacea* Fuck Symb. p. 137. *Melogramma arundinacea* Niessl in Rab. Fungi Eur. N. 1840.

*Hab. in culmis emortuis Phragmitis communis* in «Suecia, Gallia, Germania, Britannia, Belgio, Italia, Amer. bor., Borneo, Kamtschatka» (Tab. LV, fig. 3. — Ex specim. Plowrightian. in Thuemen Myc. Un N. 1256).

Perithecia crustâ stromaticâ, sat manifestâ, nigricante, tecta, seriata; asci 80-90  $\times$  10-12; sporidia 33-36  $\times$  5-6. Vix *Leptosphaeria*.

**Leptosphaeria Bryzae** Pass. Diagn. Funghi N. II, 1887 p. 10.

*Hab. in Bryza media in monte* «Prinzera Prov. di Parma Ital. bor.» (Tab. LV, fig. 4. — Ex specim. orig. a cl. Passerini benevole communic.).

Perithecia sparsa,  $\frac{1}{6}$  mm. diam.; asci 55-60  $\times$  18-20; sporidia 35-38  $\times$  5 $\frac{1}{2}$ -6.

**Leptosphaeria caricinella** Karst. Fungi Spetsb. p. 100. Sacc. Syll. Pyr. II, pag. 65.

*Hab. in foliis Caricis pullae exsiccati ad* «Nordfjorden, Spetsbergiae». (Tab. LVI, fig. 1. — Ex specim. orig. a cl. Karst. benevole communic.).

Perithecia sparsa,  $\frac{1}{7}\text{--}\frac{1}{5}$  mm. d.; asci 70-90  $\times$  16-20; sporidia 35-38  $\times$  6-7.

**Leptosphaeria Resedae** Pass. Diagnosi Funghi Nuovi III, n. 18. Sacc. Suppl. I, Syll. p. 766.

*Hab. in caulis fracidis Resedae luteae in agro parmensi* «Italiae bor.» (Tab. LVI, fig. 2. — Ex specim. orig. a cl. Passerini benevole comm.).

Perithecia subgregaria,  $\frac{1}{4}$  mm. d.; asci 105-115  $\times$  12-10; sporidia 38-42  $\times$  5-7.

**Leptosphaeria maculans** (Desm.) Rab. F. Eur. n. 2050 (neque Sowerby Fuck. et Sacc.) *Sphaeria maculans* Desm. Ann. Sc. Nat. III. p. 77. *Lept. conferta* Niessl. in herb. (absque diagnosi) Sacc. Syll. Pyr. II, p. 20. *Lept. Eryngii* H. Fab. Spher. Vaucl. p. 49, fig. 19. Sacc. Syll. Pyr. II Add. LVI. Rehm Asc. n. 986.

*Hab. in caulis Farsetiae incanae, Alyssii calyciformis, Eryngii campestris et Sysimbrii Sophiae* in «Gallia et Germania» (Tab. LVI, fig. 3. — Ex specim. origin. *L. macul.* cum originalibus *L. confertae* et *L. Eryngii* minutim comparatis).

Perithecia conferta sed aliquando etiam hinc inde sparsa,  $\frac{1}{3}$  mm. d.; ascii 110-120  $\approx$  12-16; sporidia 50-55  $\approx$  5-7.

**Leptosphaeria gigaspora** Niessl in Hedw. 1873 p. 42 et in herb. (sine diagn.) Sacc. Syll. Pyr. II, p. 65. Winter Pilze II, p. 450.

*Hab. in foliis Caricis paludosae emortuis* « Brünn, Moraviae » (**Tab. LVII, fig. 1.**) — Ex specim. orig. a claro Niessl benevole communic.).

Perithecia subsparsa,  $\frac{1}{7}\text{-}\frac{1}{5}$  mm. d.; ascii 140-150  $\approx$  25-28; sporidia 55-60  $\approx$  10-12, diu hyalina.

**Leptosphaeria eustomella** Sacc. Mich. II, p. 251. Syll. Pyr. II, p. 61.

*Hab. in culmis Festucarum majorum in* « M. Grappa, Bassano Ital. bor. » (**Tab. LVII, fig. 2.**) — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia gregaria,  $\frac{1}{5}$  mm. d.; ascii 70-80  $\approx$  8-10; sporidia 16-19  $\approx$  3  $\frac{1}{2}$ -4  $\frac{1}{2}$ .

**Leptosphaeria Diana** Sacc. et Spieg. Mich. I, p. 398. Sacc. F. it, t. 322. Syll. Pyr. II, p. 51.

*Hab. in foliis Aceris Negundinis* « Vittorio » *et in foliis vivis Citri Aurantii prope* « Genova Ital. bor. » (**Tab. LVII, fig. 3.**) — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{10}\text{-}\frac{1}{9}$  mm. d.; ascii 45-50  $\approx$  12-14; sporidia 20-22  $\approx$  4-6.

**Leptosphaeria sapeyensis** Sacc. Syll. Pyr. II, p. 38. *L. salebrosa* Sacc. Mich. II, p. 599 (nec Preuss).

*Hab. in caule Gentianae luteae emortuo* « Le Sapey Isère Galliae » (**Tab. LVII, fig. 4.**) — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia laxe gregaria,  $\frac{1}{5}\text{-}\frac{1}{6}$  mm. d.; ascii 65-75  $\approx$  8-10; sporidia 4-septata (an demum 5-septata?) 20-25  $\approx$  4.

**Leptosphaeria Niessleana** Rab. Fung. eur. 1252. Niessl Beitr. t. III fig. 22. Winter Pilze II, p. 29, Sacc. Syll. Pyr. II, p. 19. *Lept. lathyrina* Sacc. Mycol. Ven. p. 105, t. X fig. 25 27.

*Hab. in caulibus emortuis Lathyri latifolii in* « Moravia, Germania et Ital. bor. » (**Tab. LVII, fig. 5.**) — Ex specim. orig. in Rehm Ascom. n. 487).

Perithecia sparsa,  $\frac{1}{7}$  mm. d.; ascii 80-90  $\approx$  8-9; sporidia 26-28  $\approx$  4.

**Leptosphaeria oreophila** Sacc. Mich. I, p. 120, F. it. tab. 514, Syll. Pyr. II, p. 68. *Leptosph. oreophiloides* Sacc. et Penz. Mich. II, p. 599, Syll. I. c. p. 20.

*Hab. in caule emortuo Laserpitii angustifolii et Tofieldiae canaliculatae* « Vis, (Isère) Galliae » *et in* « Rax-Alpe » *prope* « Sömmerring Austriae » (**Tab. LVII, fig. 6.**) — Ex specim. orig. *L. oreophiloidis* a cl. Sacc. benevole comm., et cum iis orig. *L. oreophilae* minute comp.).

Perithecia sparsa vel gregaria,  $\frac{1}{4}$  mm. d.; ascii 85-95  $\approx$  10-12; ascii 29-32  $\approx$  4-5 (haud raro 32-35). In *L. oreophila* perithecia apice penicillum setatum instructa inveni. Est aptius var. **minor** *L. spectabilis*.

**Leptosphaeria spectabilis** Niessl Beitr. p. 29. t. IV, fig. 27. Sacc. F. it.

t. 285, Syll. Pyr. II, p. 40. *Lept. Penicillus* Sacc. F. Ven. Ser. II, p. 316. ? *L. aucta* Niessl in Hedw. Rehm asc. n. 488. Sacc. Syll. Pyr. II, p. 47. *Lept. dubia* Sacc. et Paol. in Sacc. Myc. Sibir. p. 14, fig. 13 et Suppl. I, Syll. p. 772. *Sphaeria Longchampi* West. in March. Crypt. Belg. *Lept. Longch.* Sacc. Suppl. I Syll. p. 762 et Rev. Myc. 1885, *L. Orchidearum* Karst. in Herb.

*Hab. in caulis emortuis* Clematidis, Peucedani, Laserpitii, Libanotis, Valerianae etc. in « Germania, Italia, Sybiria et Fennia ».

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; apice exquisite penicillato; asci 75-85  $\times$  10-12; sporidia 28-32  $\times$  4-5, subinde utrinque hyalino appendiculata.

**Leptosphaeria purpurea** Rehm Asc. Lojk. n. 69, p. 54. Sacc. Suppl. I, Syll. p. 770.

*Hab. ad caules siccos Artemisiae vulgaris in horto* « Eszterházyano, Kaposvar Hungariae » (Tab. LVIII, fig. 1). — Ex specim. orig. a cl. Rehm benevolo comm.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 70-80  $\times$  8-10; sporidia 20-22  $\times$  3-4.

**Leptosphaeria corynospora** Berl. et Bres. Micromyc. Trid. p. 25. tab. IV, fig. 3. Sacc. Add. Syll. I p. 775.

*Hab. in Cirsio Lanceolato prope* « Trento Ital. bor. » (Tab. LVIII, fig. 2). — Ex specim. orig.).

Perithecia gregaria,  $\frac{1}{3}$  et amplius mm. d.; asci 110-120  $\times$  10-12; sporidia 24-26  $\times$  6. Loculis extimis pallidioribus sed non hyalinis.

**Leptosphaeria pulchra** (Winter) Sacc. Syll. Pyr. II, p. 53. Winter Pilze II, p. 488. *Sphaerella pulchra* Winter in Hedw. 1872 p. 146.

*Hab. in caule foliisque* Potentillae caulescentis in « Tyrolia et Belluno Ital. bor. » (Tab. LVIII, fig. 3). — Ex specim. orig. in Herb. Musaei [Berolinensis].

Perithecia gregaria, 70-80  $\mu$ . diam.; asci 40-50  $\times$  18-22; sporidia 18-22  $\times$  6-7.

**Leptosphaeria umbrosa** Niessl in Herb. Rabenh. Fungi Eur. n. 1934. Rehm Ascom. n. 690. *Massaria umbrosa* Rehm in Litt. Berl. et Vogl. Add. Syll. p. 132. Winter Pilze II, p. 485. *L. scotophila* Sacc. Fungi Ven. Ser. II, n. 317. Fungi it. t. 281 Syll. Pyr. II, p. 28.

*Hab. in caulis Gentianae, Spireae, Lysimachiae, Cynanchi etc. in* « Germania et Italia » (Tab. LVIII, fig. 4). — Ex specim. orig. in *Gentiana*).

Perithecia  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; asci 65-75  $\times$  12-16; sporidia 30-34  $\times$  5-7. In *L. scotophila* sporidia 4-septata semper inveni.

Species haec aptius sub *Metasphaeria* inquirenda, nam sporidia tantum senectute et extra ascos fuscescunt.

**Leptosphaeria salebricola** Bomm. Rouss. in Sacc. Suppl. I, Syll. p. 783.

*Hab. in foliis Stellariae* « Comblain Belgii » (Tab. LIX, fig. 1). — Ex specim. orig. in Herb. Sacc.).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; asci 80-90  $\times$  15-18; sporidia 30-35  $\times$  6-7.

**Leptosphaeria cylindrospora** Niessl et Auersw. in Herb. Sacc. Syll. Pyr. II, p. 37. Winter Pilze II, p. 476.

*Hab. in caulis emortuis Epilobii angustifolii* « Brünn Moravia » (Ex specim. orig. in Herb. Sacc. — **Tab. LIX, fig. 2.**)

Perithecia gregaria,  $\frac{1}{3}\text{-}\frac{1}{4}$  mm. d.; asci tetraspori (non octospori ut in Syll. et in Pilze II. cc.) 95-105  $\times$  10-12; sporidia 40-46  $\times$  5-7. Afinis *L. spectabilis* sed ostiolis non setosis ascisque tetrasporis in primis recedit. Specimina Linhartiana (fung. Hung. n. 269) saltem illa a me visa prorsus aliena.

**Leptosphaeria Rusci** (Wall.) Sacc. Syll. Pyr. II, p. 64. Winter Pilze II, p. 456. *Sphaeria Rusci* Wall. Flora Crypt. II, p. 776. *Cryptosphaeria glauco-punctata* Grev. Flora Edimb. p. 362. *Sphaeria atrovirens* Var. *Rusci* Fries. Elench. II, p. 103. *Sphaerella Rusci* Ces. et De Not. Schema p. 63. *Depazea Chatiniana* Crié Dep. p. 42. *Lept. biseptata* Auersw. *Lept. trimera* Sacc. F. Ven. Ser. II, p. 319.

*Hab. in cladodiis caulisque Ruscorum in* « Italia, Britannia, Germania, Gallia, Belgio, Austria et Lusitania » (**Tab. LIX, fig. 3.** — Ex specim. Gallico quodam in Herb. Sacc.).

Perithecia subgregaria vel sparsa,  $\frac{1}{7}\text{-}\frac{1}{5}$  mm. d.; asci 70-80  $\times$  8-10; sporidia 17-20  $\times$  4-5.

**Leptosphaeria obtusispora** Speg. Fungi Arg. Pug. IV n. 167. Sacc. Syll. Pyr. II, p. 67. Berl. et Sacc. F. in Rev. Myc. 1888 *Leptosphaeria trans lucens* Winter Contr. Fl. Myc. Lus. V. p. 15. Sacc. Suppl. I Syll. p. 786.

*Hab. in foliis exsiccatis Juccae gloriosae et Fourcroyae in* « Argentina Amer., Austr. et Coimbra Lusitaniae » (**Tab. LXVII, fig. 4.** — Ex specim. Lusitanicis).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 90-100  $\times$  8-10; sporidia 18-22  $\times$  5. Vix Var. *L. Rusci*.

**Leptosphaeria epicalamia** (Riess) Ces. et De-Not. Schema Sfer. p. 236. Sacc. Syll. Pyr. II, p. 62. Winter Pilze II, p. 455. *Sphaeria epical*. Riess in Klotzsch-Rab. Herb. myc. n. 1828 et in Hedw. 1854 n. 6 tab. IV, fig. 6.

*Hab. in calamis Luzulæ albidae et L. maximæ in* « Germania, Austria, et Helvetia » (**Tab. LIX, fig. 4.** — Ex specim. in Rab. Wint. n. 2760).

Perithecia sparsa,  $\frac{1}{4}\text{-}\frac{1}{3}$  mm. diam.; asci 65-75  $\times$  10-12; sporidia 18-20  $\times$  4-5. A *Leptosphaeria culmicola*, a qua sec. clar. Winter vix differret, sporidiis minoribus, mihi videtur distinguenda.

**Leptosphaeria tenera** (Ellis) Sacc. Syll. Pyr. II, p. 39. *Sphaeria tenera* Ellis Bull. Torr. Bot. Club. VIII, II, 81, p. 124.

*Hab. in caulis herbaceis emortuis* « Newfield Amer. bor. » (**Tab. LIX, fig. 5.** — Ex specim. orig. a claro Ellis benevole communic.).

Perithecia sparsa vel vix gregaria, epidermide nigrescente tecta,  $\frac{1}{3}$  mm.

d.; asci 75-85  $\approx$  7-9; sporidia 16-21  $\approx$  3  $\frac{1}{2}$ -4. A *L. nigricante* vix differt sporidiis paulo minoribus, aptius ut Var. habenda.

**Leptosphaeria Fuckelii** Niessl in Voss, Zwei Neue Ascom. p. 1. Sacc. Syll. Pyr. II, p. 71. Winter Pilze II, p. 453.

*Hab. in culmis Calamagrostidis et Phalaridis in « Germania, Carniola et Helvetia »* (**Tab. LX, fig. 1.**) — Ex specim. orig. a claro Niessl benevole communic.).

Perithecia sparsa vel vix 2-3 gregaria,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 75-90  $\approx$  8-10; sporidia 22-25  $\approx$  3  $\frac{1}{2}$ -4  $\frac{1}{2}$ .

Ob sporidia cylindracea, parte superiori triseptata, inferiori uniseptata, mox dignoscenda.

**Leptosphaeria nigricans** Karst. Myc. Fenn. II, p. 107. Sacc. Syll. Pyr. II, pag. 38.

*Hab. ad caules aridos Chenopodii albi « Mustiala Fenniae »* (**Tab. LX, fig. 2.**) — Ex specim. orig. a claro Karst. benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; epidermide nigrescente tecta; asci 80-90  $\approx$  8-10; sporidia 22-24  $\approx$  4-5.

**Leptosphaeria Medicaginum** Sacc. Mich. II, p. 534. Syll. Pyr. II, p. 35. *L. Medicaginis* Sacc. Myc. Ven. p. 105, tab. X, fig. 35-36. Fungi it. t. 492 (nec Fuck).

*Hab. in caulis Medicaginis sativae pr. « Treviso Ital. bor. »* (**Tab. XL, fig. 3.**) — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; asci 55-65  $\approx$  8-10; sporidia 23-25  $\approx$  4.

**Leptosphaeria inculta** Sacc. et Malb. Mich. II, p. 598. Syll. Pyr. II, p. 21.

*Hab. in caule Chenopodii albi emortuo in « Gallia »* (**Tab. LX, fig. 4.**) — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{6}$  mm. d.; asci 65-70  $\approx$  9-11; sporidia 27-30  $\approx$  6, quinqueseptata.

**Leptosphaeria recessa** Pass. Diagn. fung. nuovi. IV, p. 6.

*Hab. in cavitate gémmarum culni Arundinis Donacis prope « Parma Ital. bor. »* (**Tab. LX, fig. 5.**) — Ex specim. orig. a claro Pass. benevole communic.).

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 60-70  $\approx$  8-10; sporidia 24-27  $\approx$  4-5. Differt a *L. rhodophaea* sporidiis minoribus, colore diverso.

**Leptosphaeria fallax** Berl. Fungi Mor. fasc. IV, n. 6. Sacc. Suppl. Syll. p. 780.

*Hab. in ramulis Mori « Fiumicello Ital. bor. »* (**Tab. LXI, fig. 1.**).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; asci 60-70  $\approx$  12; sporidia 28  $\approx$  4-5.

**Leptosphaeria maritima** (C. et Plowr.) Sacc. Syll. Pyr. II, p. 63. *Sphaeria maritima* C. et Plowr. in Grev. V, p. 120.

*Hab. in calamis Junci maritimi, « North Wootton Britanniae »* (**Tab. LXI, fig. 2.**) — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia sparsa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 70-80  $\approx$  9-12; sporidia 24-26  $\approx$  5-6. Species haec est potius forma *L. culmicola*.

**Leptosphaeria carpogena** Sacc. Fungi Ven. Ser. II, p. 313. Fungi it. p. 269. Syll. Pyr. II, p. 56.

*Hab. in capsulis Veronicae urticifoliae et in leguminibus Galegae officinalis prope « Treviso Ital. bor. »* (Tab. LXI, fig. 3. — Ex specim. orig. (*in Veronica*) a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{9}$ - $\frac{1}{8}$  mm. d.; asci 50-60  $\approx$  8-10; sporidia 20-23  $\approx$   $3\frac{1}{2}$   $4\frac{1}{2}$ .

**Leptosphaeria culmicola** (Fries) Auersw. in Tausch Verain 1866 p. 4. Sacc. Syll. Pyr. II, p. 70. Winter Pilze II, p. 453. *Sphaeria culmicola* Fries Syst. Myc. II, p. 430. *L. nigrans* (Desm.) Ces. et De Not. Sch. p. 61. Sacc. I. c. p. 70.

*Hab. in culmis Graminum minorum in « Italia, Germania, Suecia, Gallia et Fennia »* (Tab. LXI, fig. 4. — Ex specim. Saccard. in *Tritico*).

Perithecia sparsa vel aggregata,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 75-85  $\approx$  9-12; sporidia 24-27  $\approx$  5-6. Species ab auctoribus nonnullis cum *L. culmifraga* cumfusa. Forma *minor* Sacc. Fungi Ven. Ser. II, p. 322. Fungi it. t. 486. Syll. Pyr. II, p. 70 a typo non differt. Forma *major* Sacc. ibid. fungi it. t. 487. Syll. I. c. est *L. culmiphraga*. - Var. *aquatica* Sacc. Mich. II, p. 319 Syll. I. c. p. 71, sporidiis subhyalinis est potius *Metasphaeria*. - Var. *rhizomatum* Sacc. I. c. a typo non differt.

**Leptosphaeria culmicola** Var. **Rousseliana** (Desm.) Ces. et De-Not. Schema p. 236. Sacc. Syll. Pyr. II, p. 71. Winter Pilze II, p. 454. *Sphaeria Rouss.* Desm. XVI Not. 1849 p. 29.

*Hab. in vaginis Phlebi boehmeri in « Gallia et Germania »* (specim. orig. in Desm. Pl. Crypt. Franc. n. 2082 cum iis Rab. F. E. n. 1345 et Herbarii De-Not. comparatum).

Perithecia  $\frac{1}{4}$  mm. d.; approximata; asci 70-80  $\approx$  8-10; sporidia 18-20  $\approx$   $3\frac{1}{2}$ - $4\frac{1}{2}$ , quinqueseptata, olivascentia. Sec. Cl. Winter species facile dignoscitur sporidiorum fabricâ, sed ego semper inveni sporidia iis *L. culmicola* similia sed paulo minora, cellula tertia ab apice protuberante.

**Leptosphaeria licatensis** Sacc. Syll. Pyr. II, p. 70. *L. typhicola* Pass. et Beltr. Fungi Sic. Novi, n. 11. (Nec Karst.).

*Hab. in foliis aridis Typhae latifoliae « Licata Siciliae »* (Tab. LXI, fig. 5. — Ex specim. orig. a claro Pass. benevole communic.).

Perithecia sparsa vel laxe gregaria,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 70-80  $\approx$  10-12; sporidia 20-23  $\approx$   $4\frac{1}{2}$ .

**Leptosphaeria Nardi** (Tr.) Ces. et De Not. Schema p. 62 Sacc. Syll. Pyr. II, p. 72. Winter Pilze II, p. 454. *Sphaeria Nardi* Fries Syst. Myc. II, p. 520 Hedw. I. t. 15, fig. 7. *Pleospora Nardi* Fuck. Symb. myc. pag. 137 t. VI, fig. 28.

*Hab. in culmis foliisque Nardi strictae in « Suecia, Britannia, Belgio et*

Gallia » (**Tab. LXII, fig. 1.** — Ex specim. in Cooke Fungi Brit. Exsicc. Ed. II, n. 571 cum iis Fuckelianis (Fungi Rhen. n. 855) minutim. comparatis).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; asci 70-80  $\approx$  10-12; sporidia 23-25  $\approx$  4-5.

**Leptosphaeria praeclarata** Karst. in Hedw. 1884 n. l, p. 2 Rev. Asc. Fenn. p. 54. Berl. et Vogl. Add. Syll. p. 144.

*Hab. in caulis emortuis Asparagi officinalis ad « Mustiala Fenniae »* (**Tab. LXII, fig. 2.** — Ex specim. orig. a claro Karst. benevole communic.).

Perithecia sparsa vel subgregaria,  $\frac{1}{5}$  mm. d.; asci 60-80  $\approx$  16-20; sporidia 23-25  $\approx$  8-9.

**Leptosphaeria praeclarata** forma **typhiseda** Sacc. et Berl. in Rev. Myc. 1886 p. 33. Berl. et Vogl. Add. Syll. p. 143 (ut species).

*Hab. in foliis emortuis culnisque Typhae angustifoliae « Algeria »* (**Tab. LXII, fig. 3.** — Ex specim. orig.).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; asci 65-75  $\approx$  15-20; sporidia 23-27  $\approx$  6-7. primo hyalina dein mellea.

**Leptosphaeria Corae** Pat. Journ. Bot. 1888 p. 150, fig. 5. Sacc. Suppl. I, Syll. p. 797.

*Hab. in thallo Corae in « Gallia »* (**Tab. LXII, fig. 4.** — Ex specim. orig. a claro Patouillard benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 70-80  $\approx$  20-24; sporidia 20-23  $\approx$  6-7, saepe tenuiter longitudinaliter septata. Aptius *Pleospora*.

**Leptosphaeria sicula** Sacc. et Beltr. Mich. I, p. 397. Fungi it. p. 325. Syll. Pyr. II, p. 36.

*Hab. in trunco emortuo Opuntiae Fici-indicae prope « Licata Siciliae »* (**Tab. LXII, fig. 5.** — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  et usque fere  $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$  10-14; sporidia 22-25  $\approx$  5-6, primo 3-septata, dein 4-5 et etiam 6-septata. An demum 7-septata?

**Leptosphaeria Artemisiae** (Fuck.) Auersw. in Hedw. 1878 p. 46, non Sacc. Syll. Pyr. II, p. 33. Winter Pilze II, p. 476. *Sphaeria Artemisiae* Fuck. Fungi Rhen. n. 896. *Pleospora helminthospora* Fuck. Symb. Myc. p. 138.

*Hab. in caulis Artemisiae campestris in « Germania »* (**Tab. LXIII, fig. 1.** — Ex specim. orig. in Fuck. fung. Rhen. l. c. a cl. Briosi benev. comm.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  12-14; sporidia 28-32  $\approx$  6-7.

**Leptosphaeria Artemisiae** Sacc. Syll. l. c. eadem est ac *L. helminthospora* Ces. (Cfr. etiam Winter l. c.).

**Leptosphaeria striolata** Pass. Diagn. fung. nuovi IV, p. 5. Sacc. Add. Syll. p. 788. *Leptosph. pleurospora* Niessl. in Rehm Ascom. n. 937. Sacc. l. c. p. 795.

*Hab. in culmis siccis Scirpi Holoschoeni « Vigheffio » prope « Parma Ital. bor. » et prope « Lofer Salisburgi ».* (**Tab. LXIII, fig. 2.** — Ex specim.

orig. a claro Pass. benevole communic. et cum orig. *L. pleurosporae* in Rehm l. c. minutim comparatis).

Perithecia sparsa,  $\frac{1}{10}$  mm. d.; asci 40-65  $\times$  18-22; sporidia 30-32  $\times$  7-8.

Pulchra species sporidiis atro-fuligineis, longitudinaliter striolatis mox dignoscenda.

**Leptosphaeria comatella** (E. et E.) Sacc. Syll. Pyr. II, p. 32 et p. 40.

*Sphaeria comatella* E. et Ev. Grev. V, p. 52, tab. 80, fig. 9 et VI fig. 95.

*Hab. in caulis Baptisiae, Dauci, Solani et Asparagi* « New Jersey Amer. bor. » (Tab. LXIII, fig. 3. — Ex specim. orig. in *Asparago* in Ellis North Amer. Fungi, sub n. 190 editis).

Perithecia gregaria vel sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; asci 60-70  $\times$  10-13; sporidia 22-24  $\times$  4-6. Dimensiones a claro Cooke datae a nostris valde diversae. Setulis brevissimis et parcis non videtur *Pocosphaeria*.

**Leptosphaeria Spireae** Karst. Fragm. Myc. Fenn. XXIV, p. 3. Sacc. Suppl. I Syll. p. 778.

*Hab. ad ramulos deciduos aridos Spireae sorbifoliae in horto mustialensi in* « Fennia ». (Tab. LXIII, fig. 4. — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia  $\frac{1}{3}$  mm. diam., subinde 2-4 connata; asci 100-120  $\times$  12-16; sporidia disticha vel monosticha 22-25  $\times$  6-7,5.

Aptius ut var. *L. clivensis* habenda. Sporidia raro sunt 5-septata, et loculis extimis aegre pallidioribus.

**Leptosphaeria albopunctata** (West.) Sacc. Syll. Pyr. II p. 72. *Sphaeria albopunctata* West. in Kickx Fl. crypt. Fl. I p. 355.

*Hab. in vaginis Phragmitis communis in* « Belgio ». (Tab. LXIV, fig. 1. — Ex specim. orig. a claro Ellis benevole communic.). Specimina americana secundum cl. Ellis cum illis a cl. Oudemans ipso missis bene congruunt. Species pulchra mox dignoscenda.

Perithecia seriata  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; asci 140-150  $\times$  10-12; sporidia 20-23  $\times$  7-8.

**Leptosphaeria Phyteumatis** (Fuck.) Sacc. Syll. Pyr. II p. 37. Winter Pilze II p. 481. *Pleospora Phyteumatis* Fuck. Symb. myc. App. II p. 25. *Leptosphaeria psilospora* Auersw. in Hedw. 1868 p. 184?

*Hab. in caulis emortuis Phyteumatis spicati et Phyteumatis Scheuchzeri in* « Helvetia et Tyrolia ». (Tab. LXIV, fig. 2. — Ex specim. orig. in Rab. - Winter Fungi Eur. n. 2764).

Perithecia sparsa,  $\frac{1}{5}$  mm. diam.; asci 100-110  $\times$  10-12; sporidia 32-38  $\times$  4-5.

**Leptosphaeria norfolcia** (Cooke) Sacc. Syll. Pyr. II p. 73. *Sphaeria norfolcia* Cooke Grev. V p. 120. *Leptosphaeria riparia* Sacc. Mich. I p. 39. Fungi it. t. 481.

*Hab. in calamis Junci effusi prope* « Treviso Ital. bor. et Junci et Heleo-

charidis « North Wootton Britanniae ». (**Tab. LXIV, fig. 3.** — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia sparsa vel gregaria,  $\frac{1}{5}$ - $\frac{1}{6}$  mm. d.; asci 75-85  $\times$  10-12; sporidia 24-26  $\times$  4-5. Dimensions Cookeanas valde excedentes invenimus. Etiam sporulas *Hendersoniae norfolkiae* in eadem matrice viventis minores notavimus.

**Leptosphaeria Yulan** Sacc. Fungi Ven. Ser. II, p. 312 Fungi it. t. 260. Syll. Pyr. II p. 55. Berl. Fungi Mor. fasc. IV n. 4 fig. 1-5.

*Hab. in foliis languidis Magnoliae* Yulan et Mori albae in « Ital. bor. ». (**Tab. LXIV, fig. 4.** — Ex specim. in *Moro*).

Perithecia sparsa,  $\frac{1}{12}$ - $\frac{1}{10}$  mm. d.; asci 70-75  $\times$  10-12; sporidia 20-22  $\times$  4-5.

**Leptosphaeria Yulan** Var. **Pomona** Sacc. Fungi Ven. Ser. V p. 175, Fungi it. t. 266. Syll. Pyr. II p. 55 (ut species).

*Hab. in pag. super. foliorum Piri Mali* « Selva Treviso Ital. bor. ».

Perithecia  $\frac{1}{10}$ - $\frac{1}{9}$  mm. d.; asci 60-70  $\times$  8-10; sporidia 20-23  $\times$  4-5.

**Leptosphaeria citricola** Penz. Mich. II, p. 416, Fungi it. t. 1149. Sacc. Syll. Pyr. II p. 55.

*Hab. in foliis vivis Citrorum, in frigidariis R. Horti Patavini* « Ital. bor. ».

(**Tab. LXV, fig. 1.** — Ex specim. orig. in herb. Sacc.).

Perithecia sparsa vel laxe gregaria; asci 70-75  $\times$  8-9; sporidia 20-22  $\times$  3  $\frac{1}{2}$ - $\frac{1}{2}$ .

**Leptosphaeria rhodophaea** Bizz. Fung. Ven. novi vel crit. p. 2, t. II, fig. 3, a, b, c, d. Berl. et Vogl. Add. Syll. p. 143.

*Hab. in culmis emortuis Arundinis Donacis* in « Horto botanico patavino, Ital. bor. » (**Tab. LXV, fig. 2.** — Ex specim. orig. in herb. Sacc.).

Perithecia sparsa,  $\frac{1}{3}$  et fere  $\frac{1}{2}$  mm. d.; asci 85-95  $\times$  11-13; sporidia 23-30  $\approx$  46. Afinis *L. culnicolae* sed major.

**Leptosphaeria Nitschkei** Rehm Asc. 15<sup>bis</sup>, Diagn. p. 3. Sacc. Syll. Pyr. II, p. 26. Winter Pilze p. 464. Rehm Ascom. 532 b.

*Hab. in caulis emortuis Adenostyli prope Ochsenhütte Austriae* ».

(**Tab. LXV, fig. 3.** — Ex specim. orig. in Rehm l. c.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 90-105  $\times$  8-10; sporidia 30-34  $\times$  4-6.

**Leptosphaeria ogilviensis** (B. et Br.) Ces. De-Not. Schema p. 61. Sacc. Fung. it. t. 490. Syll. Pyr. II p. 34. *Sphaeria ogilviensis* B. et Br. Ann. N. H. n. 642, t. 11, fig. 28. Winter Pilze II p. 476. Berl. sopra alc. Lept. p. 6.

*Hab. in caulis emortuis Senecionis, Picridis, Erigerontis, Bidentis, Asteris, rarius Epilobii, Cimicifugae* in « Britannia, Germania, Helvetia, et Ital. bor. » (**Tab. LXV, fig. 4.** — Ex specim. Niessleano in *Leucanthemo vulgaris*).

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 80-100  $\times$  9-12; sporidia 36-40  $\times$  4-5.

**Leptosphaeria Camilla** Sacc. Fungi Ven. Ser. II p. 312. F. it. t. 260. Syll. Pyr. II p. 54.

*Hab. in foliis languidis Scrophulariae aquatica* « Selva Treviso Ital.

bor. (**Tab. LXVI, fig. 1.** — Ex specim. orig. a claro Saccardo benevole communicatis).

Perithecia pauca,  $\frac{1}{12}$ - $\frac{1}{10}$  mm. d.; asci 60-70  $\times$  10-12; sporidia 28-30  $\times$  4-5.

**Leptosphaeria Sowerbyi** (Fuck.) Sacc. Syll. Pyr. II p. 78 (nomen). *Lept. maculans* Ces. et De-Not. in Comment. Soc. crittog. ital. I p. 235. Sacc. Syll. Pyr. II p. 35. Fungi it. t. 511. (Non *Sphaeria maculans* Desm.) *L. Alliariae* (Auersw.) Rehm Ascom. n. 686. Linhart Fungi hungar. n. 164. Sacc. Syll. Pyr. II p. 35. Winter Pilze II p. 474.

*Hab. in caulis Alliariae et Brassicae aliarumque Cruciferarum in « Germania, Italia etc. »* (**Tab. LXVI, fig. 2.** — Ex specim. Winterianis in *Alliaria*).

Perithecia sparsa vel subgregaria,  $\frac{1}{3}$  mm. d.; asci 110-120  $\times$  10-14; sporidia 40-45  $\times$  4-5. Si species haec etiam in culmis *Scirpi* inveniatur, mihi incertum: specimina originalia cl. Sowerbyi non vidi. An species culmicola ab hac aliena? Certe haec a *L. maculante* Desm. toto coelo diversa.

**Leptosphaeria pachycarpa** Sacc. et Marchal in Rev. Myc. 1885 Berl. et Vogl. Add. Syll. p. 792.

*Hab. in culmis Graminum majorum in « Belgio »* (**Tab. LXV, fig. 3.** — Ex specim. orig. in March. crypt. de Belg. reliq. West.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 130-140  $\times$  16-18; sporidia 38-41  $\times$  7-8. Loculis extimis pallidioribus non hyalinis aptius in *Leptosphaeria* relinqua quam in *Passeriniella* locanda.

**Leptosphaeria Sanguisorbae** Karst. in Herb.

*Hab. in ramulis Sanguisorbae officinalis in « Lapponia Rossica ».* Ex specim. orig. a claro Karst. benevole communic. (**Tab. LXVI, fig. 4.**)

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 65-75  $\times$  12-16; sporidia 32-35  $\times$  4-5.

**Leptosphaeria Hanzslinskyana** Berl. sp. n.

*Hab. in culmis Graminaceae cuiusdam in « Germania ».* (**Tab. LXVII, fig. 1.**)

Perithecia sparsa,  $\frac{1}{3}$  mm. d., late ostiolata, coriacella; asci 105-115  $\times$  14-16; sporidia 38-42  $\times$  8-10. Vix *Leptosphaeria* et aptius inter *Lophiostomaceas* censenda sed ostiolum, saltem in speciminibus observatis, haud eximie lophiostomaceum appetit. A *Passeriniella* loculis extimis pallidioribus non hyalinis differt.

**Leptosphaeria planiuscula** (Fries) Ces. et De Not. Schema pag. 62. Sacc. Syll. Pyr. II p. 32. Winter Pilze II p. 474. *Sphaeria plan.* Fries in Hedw. I t. IV fig. 7.

*Hab. in caulis Solidaginis virgaureae in « Germania »* (**Tab. LXVII, fig. 2.** — Ex specim. Niessleanis prope Gratz lectis cum originalibus in Klotz Herb. Myc. n. 1829 minutim comp.).

Perithecia  $\frac{1}{3}$  mm. d.; asci 105-120  $\times$  15-18; sporidia 46-50  $\times$  7-9.

**Leptosphaeria virginica** (C. et E.) Sacc. Syll. Pyr. II p. 35. *Sphaeria virginica* C. et E. Grevill. VIII p. 16.

*Hab. in caule Lepidii virginici* « New Jersey Amer. bor. » (**Tab. LXVII, fig. 3.** — Ex specim. orig. in Ellis North Amer. Fungi n. 579).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  14-16; sporidia 45-50  $\approx$  6-7.

Differt a *L. Sowerbyi* praecipue sporidiis paulo longioribus crassioribusque (sed non 60  $\approx$  10 ut in Grev. et in Syll.). An satis?

**Leptosphaeria apocalypta** (Rehm) Winter Pilze II, p. 442. *Xenosphaeria apocalypta* Rehm Ascom. p. 346.

*Hab. in thallo Stereocaulonis alpini* in « Germania » (**Tab. LXVIII, fig. 1.** — Ex specim. orig. in Rehm l. c.).

Perithecia conferta, rugosa,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  12-14; sporidia 25-34  $\approx$  8-11. *L. caninam* colore sporidiorum, ascis tetrasporis et matrice, in mentem revocat.

**Leptosphaeria insignis** Karst. Fungi Spet. p. 100. Rev. Mon. Asc. Fenn. p. 38. Sacc. Syll. Pyr. II p. 71.

*Hab. in foliis Dupontiae psilosantae*, Dup. Fischeri, Airae alpinae et Alopecuri ovati in « Spetsbergia ». (**Tab. LXVIII, fig. 2.** — Ex specim. orig. a claro Karst. benevole communic.).

Perithecia subsparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 150-160  $\approx$  25-30; sporidia 36-40  $\approx$  12-14.

**Leptosphaeria Morthieriana** Sacc. Misc. Myc. I p. 23. Berl et Vogl. Add. Vol. I-IV Syll. p. 137. Sacc. Suppl. I Syll. p. 772.

*Hab. in foliis Succisae putrescentibus in palude torfacea* « les Pouts » prope « Neuchâtel Helvetiae ». (**Tab. LXVIII, fig. 3.** — Ex specim. orig. a cl. Sacc. benevole communic.).

Perithecia sparsa  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 110-120  $\approx$  25-30; sporidia 35-38  $\approx$  7-9.

Affinis *L. insigni*.

**Leptosphaeria Spartinae** Ell. et Ev. in Journ. of. Myc. 1885, p. 43. Berl. et Vogl. Add. Syll. p. 143. Sacc. Suppl. I Syll. p. 790.

*Hab. in culmis emortuis Spartinae* « Cape May Amer. bor. » (**Tab. LXIX, fig. 1.** — Ex specim. orig. a cl. Ellis benevole comm.).

Perithecia subgregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 140-160  $\approx$  20-24; sporidia 38-44  $\approx$  10-12.

Valde affinis *L. insigni*.

**Leptosphaeria littoralis** Sacc. Mich. I, p. 38. Fungi it. t. 144 Syll. Pyr. II, p. 78. Berl. sopra alc. Lept. *sabuletorum* Sacc. Syll. Pyr. II p. 180. *Sphaeria sabuletorum* B. et Br. Brit. n. 650, t 12, fig. 86. *Lept. Ammophilae* Rehm Ascom. n. 691. Winter Pilze II, p. 458. *Massaria Holoschaeni* Pass. Diagn. fung. nuovi Sacc. Add. Syll. p. 750.

*Hab. in culmis Psammae arenariae et Scirpi* in « Germania, Britannia et Italia ». (**Tab. LXIX, fig. 2** — Ex specim. orig. in herb. Sacc.).

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 150-160  $\approx$  25-30; sporidia 40-45  $\approx$  12-15.

**Leptosphaeria luctuosa** Niessl in litt. ad Schröt. et ad Sacc. Fungi Ven. Ser. II p. 321. Fungi it. t. 502. Syll. Pyr. II p. 72. Winter Pilze II p. 482.

*Hab. in culmis exsiccatis Zeae Maydis prope « Treviso Ital. bor. et in Germania ».* (Tab. LXX, fig. 1. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 150-160  $\approx$  18-20; sporidia 35-40  $\approx$  10-12.

**Leptosphaeria lineolaris** Niessl in Herb. Linhart Fungi Hung. n. 466. Sacc. Suppl. I Syll. p. 790. Berl. et Vogl. Add. Syll. p. 343.

*Hab. in culmis exsiccatis Airae caespitosae prope « Petrozsing Hungariae ».* (Tab. LXX, fig. 2. — Ex specim. orig. in Linh. I. c.).

Perithecia sparsa vel seriatim disposita,  $\frac{1}{7}$ - $\frac{1}{5}$  mm. d.; asci 55-65  $\approx$  8-10; sporidia 25-27  $\approx$  3-4.

**Leptosphaeria Hyperici** Winter Hedw. 1872, p. 140. Pilze II p. 480. Sacc. Syll. Pyr. II p. 37.

*Hab. ad caules aridos Hyperici perforati prope « Giessen Germaniae »* (Tab. LXX, fig. 3. — Ex specim. orig. a Museo Berolinensi accepto).

Perithecia sparsa vel vix gregaria,  $\frac{1}{4}$  mm. d., subsuperficialia; asci 70-80  $\approx$  10-12; sporidia 29-32  $\approx$  3-4.

**Leptosphaeria lycopodicola** Peck 29. Stat. Rep. Mus. p. 105 tab. 2 fig. 16-19. Berl. et Vogl. Add. Syll. p. 145. Sacc. Add. Syll. Pars I, p. 796.

*Hab. in pedunculis emortuis Lycopodii clavati in montibus « Adirondack Amer. bor. ».* (Tab. LXX, fig. 4. — Ex specim. orig. a claro Peck benevole communic.).

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; asci 100-110  $\approx$  10-12; sporidia 32-35  $\approx$  3-4. An ad *L. Campi Sillii* adscribenda?

**Leptosphaeria agnita** (Desm.) De-Not. et Ces. Schema p. 62. Sacc. Syll. Pyr. II p. 40. Winter Pilze II p. 480. Berl. in Soc. Ven. Trent. 1885 t. 11, fig. 1. *Sphaeria agnita* Desm. XIX not. p. 18. *Rhaphidospora Betonicae* Thümen fung. austr. 861.

*Hab. in caulis siccis variis praecipue Eupatoriæ, Betonicae etc. in « Gallia, Britannia, Italia, Germania et Belgio ».* (Tab. LXXI, fig. 1. — Ex specim. in Rehm Asc. n. 144 in *Dauco Carota*).

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 90-100  $\approx$  10-12; sporidia 34-38  $\approx$  4-5.

**Leptosphaeria agnita** Var. *ambigua* Berl. in Soc. Ven. Trent. 1885 t. 11, fig. 5. Berl. et Vogl. Add. Syll. p. 138. Sacc. Add. p. 770.

*Hab. in caule Eupatoriæ cannabini in « Germania et Italia ».* (Tab. LXXI, fig. 2. — Ex specim. *L. agnitæ* in Erb. critt. ser. II n. 590).

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 85-95  $\approx$  8-10; sporidia 30-32  $\approx$  4-5.

**Leptosphaeria Erigerontis** Berl. *Leptosphaeria agnita* Var. *Erigerontis*. Berl. in Soc. Ven. Trent. 1885 tab. IX, fig. 3. Sacc. Suppl. Syll. p. 770.

*Hab. in caule sicco Erigerontis canadensis in « Amer. bor. et Gallia ».*  
**(Tab. LXXI, fig. 3.)** — Ex specim. Brunaudianis in herb. Sacc.).

Perithecia sparsa vel vix gregaria,  $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  12-14; sporidia 48-50  $\approx$  4-5.

**Leptosphaeria modesta** (Desm.) Auersw. Tausch-verein 1866 p. 4. Karst. Myc. Fenn. II p. 106. Sacc. Syll. Pyr. II p. 39. Winter Pilze II p. 471. *Sphaeria modesta* Desm. in Ann. sc. nat. III Ser. tom. VIII p. 173. *Sphaeria Cibostii* De Not. Micr. VI p. 8. *Leptosph. Cibostii* Ces. et De Not. Schema p. 61. *Leptosphaeria Sanguisorbae* Karst. Enum. Fung. Lapp. p. 214. *Lept. setosa* Niessl Beitr. z. Kenntn. Pilze p. 28. *Lept. Passerinii* Sacc. Mich. I p. 38

*Hab. in caulibus variis in « Italia, Gallia, Germania, Fennia, Lapponia, Belgio et Britannia ».* (**Tab. LXXI, fig. 4.**) — Ex specim. orig. in *Scabiosa Columbaria* in Desm. Pl. cr. Fr. n. 1786).

Perithecia sparsa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; ostiolo penicillato, setoso; asci 70-80  $\approx$  10-12; sporidia 32-36  $\approx$  5-7.

**Leptosphaeria acuta** (Moug. et Nestl.) Karst. Myc. Fenn. p. 98. Sacc. Syll. Pyr. II p. 41. Fungi it. t. 493. Winter Pilze II p. 481. *Sphaeria acuta* Moug. et Nestl. Stirp. Vog. n. 181. *Pleospora acuta* Fuck. Symb. p. 135. *Sphaeria coniformis* Fries. Syst. II p. 508. Curr. in Trans. Linn. Soc. Vol. XXII p. 330. t. 59, fig. 126.

*Hab. in caulibus variis praecipue Urticae in « Fennia, Belgio, Britannia, Germania, Suecia, Italia, Gallia, Virginia ».* (**Tab. LXXII, fig. 1.**) — Ex specim. orig. in Rab. fungi Eur. n. 22, 40).

Perithecia subsparsa,  $\frac{1}{4}$  mm; asci 80-90  $\approx$  12-14; sporidia 35-42  $\approx$  4-5.

**Leptosphaeria rhopalispora** Berl. sp. nova.

*Hab. in Crithmo maritimo et Inulae crithmoidis in « Gallia ».* Ex specim. *L. helminthosporae* in herb. Sacc. (**Tab. LXXII, fig. 2.**)

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 85-95  $\approx$  8-10; sporidia 23-26  $\approx$  5-6. A *Lept. helminthospora* sporidiis valde minoribus prae caeteris dignoscitur.

**Leptosphaeria asparagina** Karst. in Hedw. 1884 n. 1 p. 1. Rev. Syn. Ascom. Fenn. p. 55. Sacc. Suppl. Syll. I p. 785. *Lept. Passeriniana* Sacc. Suppl. I. c. p. 785. *Lept. Asparagi* Pass. Diagn. funghi nuovi I n. 47. (nec Peck). *Lept. luctuosa* Berl. Fungi Lusit. in Rev. Myc. 1889 (nec Niessl).

*Hab. in caulibus Asparagi in « Fennia, Italia et Lusitania ».* (**Tab. LXXII, fig. 3.**) — Ex specim. orig. a claro Karst. benevolé communic. cum iis orig. *L. Asparagi* Pass., in quibus sporidia sunt 5-et dein 7-septata dum 24-27  $\approx$  5-6 metiuntur, minute comp.).

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  8-10; sporidia 25-28  $\approx$  3-4.

**Leptosphaeria asparagina forma grisea** Pass. Diagn. fung. n. IV p. 5. Sacc. Suppl. I Syll. p. 793 (ut spec.).

*Hab. in culmo fracido Sorghi vulgaris « Vigheffio » prope « Parma Ital.*

bor. » (Tab. LXXII, fig. 4. — Ex specim. orig. a claro Pass. benevole communic.).

Perithecia sparsa vel vix gregaria,  $\frac{1}{6}\text{-}\frac{1}{5}$  mm. d.; asci 75-85  $\approx$  10-12; sporidia 25-28  $\approx$  3  $\frac{1}{2}$ -5.

**Leptosphaeria conimbricensis** Berl. et Fr. Sacc. Contr. Myc. Lus. p. 5, t. 83, fig. 5. Sacc. Suppl. I Syll. p. 791.

Hab. in culmis Piptatheri miliacei, « Coimbra Lusitaniae » (Tab. LXXII, fig. 5).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 80-90  $\approx$  8-9; sporidia 23-27  $\approx$  5-6.

**Leptosphaeria scapophila** (Peck) Sacc. Syll. Pyr. II, p. 43. *Sphaeria scap.* Peck 30 Rep. t. II fig. 24-27.

Hab. in scapis emortuis Sarraceniae purpureae in « Montibus Adirondach Amer. bor. » (Tab. LXXIII, fig. 1. — Ex specim. orig. a claro Peck benevole communic.).

Perithecia sparsa,  $\frac{1}{8}\text{-}\frac{1}{7}$  mm. d.; asci 40-50  $\approx$  10-12; sporidia 20-24  $\approx$  4-5.

**Leptosphaeria derasa** (B. et Br.) Auersw. Bot. Tausch-Verein 1868 p. 4. Sacc. Syll. Pyr. II, p. 41. Thümen Myc. Univ. n. 269. Rehm Ascom. p. 383. Winter Pilze II 481. *Sphaeria derasa* B. et Br. Brit. fungi n. 639, t. 11, fig. 25 b. *Nodulosphaeria hirta* Rab. in herb. Myc. n. 725 (nec Fries).

Hab. in caulis emortuis Senecionis Jacobaeae in « Britannia et Germania ».

(Tab. LXXIII, fig. 2. — Ex specim. orig. a claro Cooke benevole communic.).

Perithecia subgregaria,  $\frac{1}{4}\text{-}\frac{1}{3}$  mm. d.; asci 75-85  $\approx$  10-12; sporidia 40-50  $\approx$  4-5. Setulas deciduas, non vidi.

**Leptosphaeria caespitosa** Niessl in Kunze fungi Sel. n. 77. Sacc. Syll. Pyr. II p. 35. Winter Pilze II p. 475.

Hab. in caulis siccis Artemisiae campestris in « Germania » (Tab. LXXIII, fig. 3. — Ex specim. orig. in Kunze l. c.).

Perithecia conferta,  $\frac{1}{4}\text{-}\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  16-18; sporidia 32-35  $\approx$  4-5. Sporidia demum 7-septata et tum 40  $\approx$  45 sed ab iis *L. helminthosporae* formâ diversa.

**Leptosphaeria fallaciosa** Berl. Ex. Myc. Frioul p. 10, t. 9, fig. 5. Sacc. Suppl. I Syll. p. 773.

Hab. in caulis emortuis Satureiae hortensis « Osoppo » agri forojulien-sis « Ital. bor. ». (Tab. LXXIII, fig. 4).

Perithecia sparsa,  $\frac{1}{5}\text{-}\frac{1}{4}$  mm. d.; asci 70-75  $\approx$  12-16; sporidia 47-50  $\approx$  4-5.

**Leptosphaeria helminthospora** (Ces.) De-Not. Sfer. it. n. 88 (nec Fuck.). Non *L. helminth.* Sacc. Syll. Pyr. II, p. 33. *Lept. Artemisiae* Sacc. Syll. Pyr. II, p. 33 (nec Fuck.) *Lept. Owaniae?* Kalch. et Cooke Grev. 1880 p. 29, t. 137, fig. 33. Sacc. l. c.

Hab. in caulis siccis Artemisiae campestris « Vercelli Ital. bor. » (Tab. LXXIV, fig. 1. — Ex specim. orig. in Erb. Critt. It. I n. 651).

Perithecia  $\frac{1}{4}$ - $\frac{1}{5}$  mm. d.; asci 110-120  $\approx$  16-18; sporidia 42-48  $\approx$  7-9.

**Leptosphaeria petiolicola** Sacc. Myc. Ven. p. 105, tab. X, fig. 38. Fungi it. t. 491. Syll. Pyr. II p. 46.

*Hab. in petiolis Robiniae Pseudacaciae* « Treviso Ital. bor. » (Tab. LXXIV)

**fig. 2.** — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 90-100  $\approx$  8-10; sporidia 24-30  $\approx$  3-4. Non rite evoluta.

**Leptosphaeria Millefolii** (Fuck.) Niessl in Rab. fungi Eur. n. 2239. Sacc. Syll. Pyr. II, p. 45. Winter Pilze II, p. 484. *Pleospora Millefolii* Fuck. Symb. Myc. App. III, p. 20.

*Hab. in caulis exsiccati Achilleae Millefolii* in « Helvetia ». (Tab. LXXIV, fig. 3. — Ex specim. Niessleanis in Rab. I. c.).

Perithecia laxe gregaria,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  10-12; sporidia 38-42  $\approx$  4.

**Leptosphaeria amphibola** Sacc. Fungi Ven. Ser. II, 322. Fungi it. p. 278. Syll. Pyr. II, p. 75. *L. culmifraga* Sacc. Mycoh. Ven. n. 77 (in *Sorgho*) Nec auct.

*Hab. in culmis emortuis Sorghi vulgaris prope* « Treviso Ital. bor. » (Tab. LXXIV, fig. 4. — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia seriata,  $\frac{1}{4}$  mm. d.; asci 60-70  $\approx$  10-12; sporidia 26-29  $\approx$  3  $\frac{1}{2}$ -4.

**Leptosphaeria amphibola forma seriata** Pass. Diagn. fung. nuovi I, n. 49. Sacc. Suppl. I, p. 794.

*Hab. in culmo fracido Zeae Maydis* « Vigheffio » *prope* « Parma Ital. bor. » (Tab. LXXV, fig. 1. — Ex specim. orig. a claro Pass. benevole communic.).

Perithecia seriata,  $\frac{1}{5}$  mm. d.; asci 60-70  $\approx$  9-11; sporidia 28-30  $\approx$  3  $\frac{1}{2}$ -4. Affinis *L. asparagineae* et *L. dactylinae*.

**Leptosphaeria herpotrichioides** De Not. Sfer. it. p. 80, t. 87. Sacc. Fungi it. t. 503. Syll. Pyr. II, p. 77. Winter Pilze II, 458. Rehm Ascom. 700.

*Hab. in culmis Koeleriae cristatae, Andropogonis et Secalis* in « Fennia et Italia ». (Tab. LXXV, fig. 2. — Ex specim. *L. culmifragae formae herpotrichioid.* in Rehm I. c.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  8-10; sporidia 25-29  $\approx$  3-4. A. *L. culmiphraga* peritheciis villosis et sporidiis tantum 6-8-septatis (raro 9-septatis) differt.

**Leptosphaeria aculeorum** Pass. Diagn. fung. n. IV, p. 4. Sacc. Suppl. I Syll. p. 778.

*Hab. in aculeis Rosae caninae* « Vigheffio » *prope* « Parma Ital. bor. » (Tab. LXXV, fig. 5. — Ex specim. orig. a claro Pass. benevole communic.).

Perithecia sparsa,  $\frac{1}{7}$ - $\frac{1}{6}$  mm.; asci 60-70  $\approx$  10-14; sporidia 30-34  $\approx$  3-4.

**Leptosphaeria dactylina** Pass. Diagn. funghi nuovi I. n. 52. Sacc. Suppl. I Syll. p. 794. *Lept. rhizomatum* Pass. D. F. N. III, p. 22. Sacc. Suppl. Syll. p. 795.

*Hab. in culmis aridis Dactylidis glomeratae in rhizomatibus Cynodontis Dactyli et stolonibus Agrostidis vulgaris « Vigheffio » prope « Parma Ital. bor. »* (Tab. LXXV, fig. 4. — Ex specim. orig. a claro Pass. benevole communicatis).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 80-90  $\approx$  10-13; sporidia 24-28  $\approx$  4-5. Af- finis *L. culmiphragae*.

**Leptosphaeria culmiphraga** (Fries) Ces. et De Not. Schema Sfer. p. 61. Sacc. Syll. Pyr. II, p. 75. Winter Pilze II, p. 456. *Pleospora culmiphraga* Fuck. Symb. p. 137. *Leptosph. disseminata*? De Not. Recl. 486 Sacc. Syll. II, p. 76. *Sphaeria rubelloides* Plowr. in Grev. V, p. 20. *Lept. rubelloides* Sacc. Syll. II, p. 77. *Lept. Melicae* Pass. ? *Lept. Beaumontii* (B. et C.) Sacc. Syll. I, c. p. 87. F. Parm. IV, p. 45.

*Hab. in culmis Graminum in fere tota « Europa et Amer. bor. ».* (Tab. LXXVI, fig. 1. — Ex specim. *L. culmicola* in Rehm Ascom. n. 143 et a claro Winter lectis atque determinatis in *Phalaride arundin*).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 95-105  $\approx$  10-13; sporidia 35-38  $\approx$  5-6.

**Leptosphaeria rubro-tincta** Ellis. et Ev. in Journ. Myc. I, p. 150. Sacc. Suppl. I Syll. p. 777.

*Hab. in ramis Staphyleae trifoliae in « Amer. bor. »* (Tab. LXXVI, fig. 2. — Ex specim. orig. a claro Ellis benevole communic.).

Perithecia sparsa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 130-140  $\approx$  12-15; sporidia 45-55  $\approx$  4-6 (et usque 60  $\mu$ . longa.).

**Leptosphaeria Equiseti** Karst. Fungi Spet. p. 101. Sacc. Syll. Pyr. II, p. 81.

*Hab. in stipitibus velustis Equiseti variegati ad « Liefdebay Spetsbergiae ».* (Tab. LXXVI, fig. 3. — Ex specim. orig. a claro Karst. benevole communicatis).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 105-115  $\approx$  16-20; sporidia 40-44  $\approx$  6-7.

**Leptosphaeria Ptarmicae** Karst. Myc. Fenn. II, p. 102. Sacc. Syll. Pyr. II, p. 42.

*Hab. in caulis exsiccatis Achilleae ptarmicae prope « Tammela Feniae ».* (Tab. LXXVII, fig. 1. — Ex specim. orig. a claro Karst. benevole communic.).

Perithecia sparsa,  $\frac{1}{7}$ - $\frac{1}{6}$  mm. d.; asci 95-105  $\approx$  16-18; sporidia 80-85  $\approx$  4.

Sporidiorum fabrica ad *Ophiobolus* vergit sed haud dubio inter *Leptosphaerias* censenda.

**Leptosphaeria Vitalbae** Niessl in Tausch-Verein 1869. Rehm Ascom. n. 938. Sacc. Suppl. Syll. I, p. 765. *Lept. nectrioides* Speg. Mich. I, p. 456. Sacc. Fungi it. t. 633. Syll. Pyr. II, p. 45.

*Hab. in sarmentis emortuis Clematidis Vitalbae in « Ital. bor. et Germania ».* (Tab. LXXVII, fig. 2. — Ex specim. orig. in Rehm I. c.).

Perithecia sparsa,  $\frac{1}{2}$  mm. d., ostiolo crassiusculo rotundo praedita; asci

100-110  $\approx$  16-18, subinde longe stipitati et tum etiam 160-180- $\mu$ . longi; sporidia 35-40  $\approx$  6-8.

Vix *Leptosph.* ostiolo rotundo sporidiorumque natura ad *Lophiost.* vergit.

**Leptosphaeria Vitalbae Var. *clavigera*** (C. et E.) Sacc. Syll. Pyr. p. 44. *Sphaeria clavigera* C. et E. Grev. VI, p. 16, t. 96, fig. 25.

*Hab. in caule* Phytolaccae « New Jersey Amer. bor. ». (Tab. LXXVII, fig. 3).

— Ex specim. orig. a clarissimis Ellis et Cooke benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 120-130  $\approx$  16-20; sporidia 34-38  $\approx$  7-9. Primo obtutu *Pleosporam rubicundant* in mentem revocat sed septis longitudinalibus nullis ab ea, saltem taxonomico, longe distat.

**Leptosphaeria typhicola** Karst. Myc. Fenn. II, p. 100. Sacc. Syll. Pyr. II, p. 79.

*Hab. in calamis putrescentibus* Typhae latifoliae ad « Mustiala Fenniae ». (Tab. LXXVIII, fig. 1). — Ex specim. orig. a claro Karst. benevole communic.).

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 85-95  $\approx$  18-20; sporidia 40-50  $\approx$  8-10. Affinis *L. Vit. var. clavigerae*, a qua differt in primis sporidiis majoribus.

**Leptosphaeria anthostomooides** Rehm Ascom. n. 339. Sacc. Syll. Pyr. p. 43. Winter Pilze II, p. 482.

*Hab. in caulis putrescentibus* Aconiti Napelli in « Alpibus Edit. Tyrolensis » juxta glaciem aeternam. (Tab. LXXVIII, fig. 2). — Ex specim. orig. in Rehm I. c.).

Perithecia gregaria,  $\frac{1}{3}$   $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  14-16; sporidia 35-40  $\approx$  6-8.

**Leptosphaeria multiseptata** Winter Hedw. 1872, p. 148. Pilze II, p. 482. Sacc. I Suppl. Syll. p. 768.

*Hab. in caulis exsiccatis* Lathyri silvestris prope « Oederam Saxoniae ». (Tab. LXXVIII, fig. 3). — Ex specim. orig. in Rab.-Winter Fungi Eur. 27 63.

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 110-120  $\approx$  10-12; sporidia 45-50  $\approx$  5.

**Leptosphaeria Kalmusii** Niessl in herb. Sacc. Syll. Pyr. II, p. 44. Winter Pilze II, p. 483.

*Hab. in caulis Artemisiae vulgaris prope* « Brünn Moraviae ». (Tab. LXXIX, fig. 1). — Ex specim. orig. in herb. Sacc.).

Perithecia sparsa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 100-110  $\approx$  8-12; sporidia 35-38  $\approx$  3 $\frac{1}{2}$ -4 $\frac{1}{2}$ . *L. seriatae* affinis.

**Leptosphaeria dolioloides** (Auersw.) Karst. Myc. Fenn. II, p. 106. Sacc. Syll. Pyr. II, p. 44. Winter Pilze II, p. 483. *Nodulosphaeria dolioloides* Auersw. in Rab. fung. Eur. n. 547. *Pleospora dolioloides* Fuck. Symb. p. 138. ? *Pleospora Thielensi* West. in Lamb. Fl. Myc. Belg. II, p. 274. *Lept. Thiel.* Sacc. I. c. p. 46.

*Hab. ad caules exsiccatos* Senecionis, Tanaceti, Anthemidis, Achilleae in « Germania, Fennia, Gallia, Lusitania ». (Tab. LXXIX, fig. 2). — Ex specim. in Rehm Ascom. n. 641 in *Tanaceto vulg.*).

Perithecia sparsa vel gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  12-14; sporidia 42-45  $\approx$  3-4.

**Leptosphaeria Napi** (Fuck.) Sacc. Syll. Pyr. II, p. 45. Winter Pilze II, p. 484. *Pleospora Napi* Fuck. Symb. p. 136.

*Hab. in caulis emortuis Brassicae rapae, Diplotaxeos et Erysimi in « Germania ».* (Tab. LXIX, fig. 3. — Ex specim. in Linhart Fungi Hung. n. 365 in *Erisimo virg.*).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 140-150  $\approx$  10-12; sporidia 48-53  $\approx$  4-5. Affinis *L. acutiusculae*.

**Leptosphaeria acutiuscula** Berl. n. sp. *L. acuta* Rehm Ascom. n. 783. (nec M. et N.).

*Hab. in caulis Urticac in « Germania ».* (Tab. LXXX, fig. 1 sub nomine *L. acutae*).

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d., subgregaria; asci 155-165  $\approx$  10-12; sporidia 48-52  $\approx$  4-5. A *L. acuta* ascis sporidiisque majoribus, ut videtur, differt.

**Leptosphaeria Salviae** Pass. Diagn. Fungi III, n. 20. Sacc. Suppl. I Syll. p. 774.

*Hab. in ramis siccis Salviae officinalis in Horto Botanico Parmensi « Ital. bor. ».* (Tab. LXXX, fig. 2. — Ex specim. orig. a claro Pass. benevole communic.).

Perithecia subgregaria, parce setosula,  $\frac{1}{3}$  mm. d.; asci 90-120  $\approx$  12-14; sporidia 45-47  $\approx$  6-7.

**Leptosphaeria megalospora** Auersw. et Niessl. Beitr. p. 30, t. IV, fig. 28. Sacc. Syll. Pyr. p. 42. Winter Pilze II, p. 482. Berl. et Bres. Microm. Trid. p. 34, tab. III, fig. 5.

*Hab. in caulis emortuis Sambuci Ebuli in « Moravia et Tyrolia ».* (Tab. LXXX, fig. 3. — Ex specim. tridentinis cum originalibus minutim comp.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 110-125  $\approx$  16-19; sporidia 65-75  $\approx$  5-7. Species perpulchra !

### Species non examinatae <sup>(1)</sup>

*Leptosphaeria argentina* Speg. L. Rudbeckiae (Kirchn.) Sacc. L. sibirica Thuem. L. viridella (Peck.) Sacc. L. lusitanica Thuem. L. Medicaginis (Fuck.) Sacc. L. Phiala (D. et M.) Sacc. L. Tini Ell. et Ev. L. Promontorii Sacc. L. cladophila Schr. L. Cookei Pir. L. Gibelliana Pir. L. vitigena Sacc. L. Avellanae Fabr. L. Kalmiae Peck. L. Asparagi Peck. L. pampini (Tuem.) Sacc. L. mirabilis Niessl. L. Mer-

(1) Plurum harum specierum exemplaria sero accepi, et in tabulis suo loco inserere nequivit. Ea in Appendix voluminis I illustrabo.

Species vero Spegazzinianas frustra plures quaesivi, et deplorandum est quod cl. Spegazzini, rei mycologicae validus servidusque cultor, precibus meis nullam, neque pro Scientia, dederit auditionem

tensiae (Ell.) Sacc. L. Baggei (Auersw. et Niessl.) Sacc. L. psilospora Auersw. L. sarmenticia Sacc. L. appendiculata Pir. L. pellita (Rab. et Klat.) L. Cadubriac Speg. L. cervispora (K. et C.) Sacc. L. Drabae (Nyl.) Karst. L. uliginosa (P. et P.) Sacc. L. sabauda Speg. L. austro-americana Speg. L. Plemeliana Niessl. L. subtecta (Wint.) L. dryophila (C. et H.) Sacc. L. coffeigena (B. et C.) Sacc. L. Passerinii Sacc. L. aërea Speg. L. marginata Niessl. L. australis (Prièè) Sacc. L. vinosa Speg. L. Alcides Sacc. Specim. orig. sterilia! L. Endiusae (Fuck.) Sacc. L. Ischoemii Pass. L. Salvini Catt. L. cyperina Pass. L. epicarecta (Cooke) Sacc. L. Dasylirii (Rab.) Sacc. Spec. orig. sterilia inveni. L. Caricis Schr. L. Vectis (B. et Br.) Ces. et De Not. Specim. plura examinata semper sterilia inveni. L. silvatica Pass. L. Secalis Haberl. L. Graminis (Fuck.) Sacc. L. sparsa (Fuck.) Sacc. specim. origin. sterilia inveni. L. interspersa (Cooke) Sacc. Spec. orig. sterilia inveni. L. pontiformis (Fuck.) Sacc. specim. orig. sterilia inveni. L. consobrina Karst. L. Campi-Silii Speg. L. arvensis Sp. L. polaris Sacc. Non vidi L. indeprena (Dur. et Mont.) Sacc. Non vidi L. Beaumontii (B. et C.) Sacc. Non vidi L. cucurbitarioides Fabr. non vidi L. Lecanora Fabr. id. L. platanicola (Howe) Sacc. id. L. Winteri Niessl id. L. Cynops Fabr. id. L. foeniculacea Fab. id. L. sabalicola Ell. et M. id. L. stereicola Ell. id. L. Physalidis Ell. et Ev. id. L. bicuspidata (Cooke et H.) Berl. et Vogl. Non vidi sed vix Lept. L. Harknessiana Ell. et Ev. non vidi. L. Acanthi Pass. id. L. Ribis Karst. spec. orig. frustra investigavi L. cassiaecola E. et E. id. L. Delawayi Pat. Non vidi. L. sticta E. et E. non vidi L. clavicularia E. et E. non vidi L. Sphyridiana (Lahm) Wint. non vidi L. Lycii Pass. id. L. monotis Rehm Spec. orig. sterilia. L. lasiosphaeroides Starb. et Grev. non vidi L. Ranunculi Rost. non vidi L. quadrisepata Trail id. L. Oxyriæ Rost. non vidi. L. serbica Schr. id. L. Lathyri Fautr. id. L. Stellariae Rich. id. L. Vahlii Rost. id. L. Eranthemi Pat. id. L. Plumbaginis Pat. id. L. Brunellæ E. et E. id. L. euphorbicola Br. id. L. brasiliensis Speg. id. L. cirricola Pass. id. L. Cisti Cel. id. L. Berberidis Rich. id. L. Caprifolii Brun. id. L. Periclymeni Oud. id. L. Camelliae C. et M. id. L. Fraxini E. et E. id. L. Helichrysi C. id. L. Rostrupii Berl. (L. Stellariae Rostr. non Rich.) id. L. Rehmiana Voss. id. L. antarctica Speg. id. L. Ziphii Pass. Sper. orig. sterilia inveni. L. ruscicola K. et H. non vidi. L. folliculata E. et E. id. L. Sporoboli E. et E. id. L. Cattanei Thuem. id. L. algida Rost. id. L. fuegiana Speg. id. L. Puiggarii Speg. id. L. pachytheca Har. et Br. id. L. stereicola Ellis id. L. fungicola Wint. id. L. danica Berl. (L. marina Rostr. non Ell.) id. L. Baggei (Auersw. Niessl) Sacc. L. Hierochloæ Oud. id. L. hemicrypta Oud. id. L. striata Wint. id. L. subcaespitosa C. et H. id.

### Species dubiae, excludendae vel e genere amovendae.

Leptosphaeria dioica (Moug.) Sacc. Syll. Pyr. II, p. 18. Specimina anglica ad *Thyridarium spectant*, *Libertiana* vero (in Roum. Rel. Lib. ser. II, n. 689) in *Acero pseudopl.* immatura inveni sed certe non ad *Leptosph.* spectant; potius *Melanommati* adscribenda. Leptosphaeria distributa (C. et Ell.) Sacc. est *Metasp.* secund. spec. origin. Leptosphaeria sodomaea (De Not.) Sacc. Ex spec. orig. nihil eruere potui, sed species mihi videtur valde dubia. L. salebrosa (Pr.) Sacc. dubia. L. nigrella (Rab.) Sacc. est *Pleospora* L. Obiones (Cr.) Sacc. L. gloeospora (B. et Curr.) Sacc. Specimina originalia senescientia. L. molybdina (Mont. et Moug.) Specimina origin. sterilia. L. abbreviata (Cooke) Sacc. Est *Sphaerulina intermista*. (Ex spec. orig. et cfr. etiam. Sacc. Syll. Pyr. II, p. 188). L. Tamaricis (Grev.) Sacc. est sec. spec. orig. *Clypeosph.* Notar. L. ramulicola (Peck) Sacc. sec. spec. orig. est *Massaria*. L. Tephrosiae (E. et E.) Sacc. est *Didymosph.* spo-

ridiis primo 4-guttatis uniseptatisque dein tantum uniseptatis etiam Chlori-Joduri-Zynchi ope, 22-24 = 4-5, melleo-viridulis sec. spec. orig. L. Vitis (Cast.) Pir. dubia. L. inspersa (Schw.) Sacc. dubia L. Hazslinszkii Sacc. dubia. L. massariella mihi videtur potius *Masaria* L. *Echinops* ad genus novum, *Pocospshaeria*, pertinet. L. Bardanae (Wallr.) Sacc. Specim. Rabenhorst. (F. E. n. 641) sub nomine *Sphaeria* Bard. ad *Ophiob. Bard.* et ad *Pleosp. infect.* spectant. L. *Gnaphalii* (West. et Fuck.) Sacc. incerta. L. *Mülleri* (Duby) Auersw. est *Zignella* L. *torulispera* (Cooke) Sacc. Spec. origin. sterilia inveni, sed species mihi videtur aptius sub *Ophiobolo militare*. L. *Saccardiana* Fabr. est *Melanomma megalospor*. L. *Castagnaei* (Dur. et Mont.) Sacc. Specim. orig. sterilia inveni, et *Saccardiana* non vidi L. *massarioides* Sacc. et Spieg. ex authopsis specim. orig. mihi videtur *Lophiostoma* nam ostioli sunt e latere compressi, et sporidia 8-septata, flavo-fuliginea loculis extimis pallidioribus. L. *primulaecola* (Wint.) Sacc. est *Metaspb.* L. *hedericola* (Desm.) Sacc. mihi dubia. L. *Scrophulariae* (Desm.) Sacc. ex authopsis specim. origin. ad *Pleosporam* pertinet. L. *impressa* (Pr.) Sacc. incerta. L. *sorgophila* (Peck.) Sacc. ex spec. orig. est *Sporormia leptosphaer*. L. *crastophila* Sacc. quam *Leptosphaeria* videtur potius *Sphaerella*; sporidia raro bisepata, nubilosa, hyalina. An *Metaspberia*? L. *Luzulæ* Wint. sec. spec. orig. est *Metaspberia*. L. *heloniaesfolia* (C. et E.) Sacc. est *Stagonospora* L. *scabiens* (Ces.) Sacc. incerta. L. *Smilacis* (Cast.) Sacc. specim. orig. sterilia; mihi dubia. L. *triglochincola* (Curr.) Sacc. mihi dubia. L. *clara* (Cooke et Auersw.) Sacc. sec. specim. Wint. est *Didymella*. L. *moniliformis* (Fuck.) Sacc. Specim. orig. sterilia inveni; species mihi dubia. L. *Asplenii* (Rab. et Niessl) Sacc. mihi dubia. L. *cafra* Thuem. Est verisimiliter novi generis typus *Metaspberiae caraguatae* affinis. L. *stictostoma* (B. et Br.) Sacc. est *Metaspb.* L. *Lophanthi* (B. et C.) Sacc. non vidi et e diagnosi mihi dubia videtur. L. *Teucrii* (Crouan) Sacc. id. L. *nesodes* (B. et Br.) Sacc. specimina orig. haud bene evoluta sed potius ad *Metaspb.* pertinent L. *Ianus* (B. et C.) Sacc. specimina orig. sterilia inveni, ellisiana vero (North Am. F. n. 1299) potius ad *Metaspb.* pertinent. L. *taxicola* (Peck.) Sacc. *Pulchra* sed *Metaspb.* L. *olivaespura* (B. et C.) Sacc. est *Pleospora* (*Catharinia*). Sporidia in massa vix virescentia. L. *stictoides* (B. et Br.) Sacc. sporidia hyalina et muriformia. L. *Juncorum* (Crouan) Sacc. Non vidi sed e diagnosi dubia. L. *Veddellii* (Mont.) Sacc. id. L. *incarcerata* (P. et C.) Sacc. est *Passeriniella*. L. *zizaniacola* (B. et B.) Sacc. Non vidi sed a diagnosi in genere dubia. L. *latebrosa* (Ellis) Sacc. est *Lophiotrema* L. *phragmiticola* (Cr.) Sacc. e diagnosi dubia. L. *duplex* (Sow.) Sacc. dubia. L. *ceratispora* (B. et C.) Sacc. Non vidi. An L. *seriata* sporidiis germinantibus? L. *eriophora* (Cooke) Sacc. est novi generis (*Pocospshaeriae*) typus. L. *echinella* (Cooke) Th. est *Pyrenophora* L. *circinans* (Fuck.) Sacc. Non vidi sed e diagnosi ad *Passeriniellam* adscribenda. L. *demissa* Niessl est *Metaspb.* L. *ophioboloides* Sacc. est novi generis (*Leptosphaeriopsis*) typus. L. *diaporthoides* W. aptius *Met.* L. *Ceanothi* (C. et H.) B. et V. est *Sphaerulina*. L. *Gillotiana* Sacc. potius *Melanomma* subcorticale. L. *californica* (C. et H.) B. et V. Est *Metaspb.* L. *odora* (C. et H.) B. et V. est *Calospora*; sporidia in massa vix lutescentia. L. *marina* E. et E. *pulchra* sed *Metaspb.* L. *hysterioides* E. et E. id. L. *infernalisa* est *Pleospora Pustula* L. *phormicola* C. et H. est *Met.* L. *Poterii* Pass. est *Lophiost. insid.* sporid. 5-sept. appendiculigera. L. *carduina* Pass. est *Pl. oblong.* L. *consimilis* E. et E. est *Melanomma* L. *Ericae* (Fr.) Malbr. est *Melan. pulv. pyr.* L. *dichroa* Pass. est novi generis (*Passeriniella*) typus.

**LEPTOSPHAERIOPSIS** Berl. nov. gen. Perithecia et asci ut in *Leptosphaeria*; sporidia in asco apice connexa sed extra ascum semper divisa (et tum 16) numquam loculis secedentibus.

**Leptosphaeriopsis ophioboloides** (Sacc.) Berl. *Lept. ophioboloides* Sacc. *Misc. Myc.* I, p. 23. *Suppl. Syll.* p. 770.

*Hab. ad caules Tragopogonis, ut videtur, in Silvis prope « Neuchatel Helvetiae ».* (*Tab. LXXXI, fig. 1.* — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia vix gregaria,  $\frac{1}{3}$  mm. d.; asci 90-100  $\times$  10-12; sporidia 42-48  $\times$  3-3  $\frac{1}{2}$ , in quoque asco 16 apice connexa.

**POCOSPHAERIA** Sacc. *Syll. Pyr.* II, p. 32. (ut subgenus).

Perithecia setosa; asci et sporidia ut in *Leptosphaeria*.

**Pocospshaeria setulosa** Sacc. et Roum. *Reliq. Libert. Ser.* II, n. 123. *Sacc. Syll. Pyr.* II, p. 32. *Winter Pilze II*, p. 447 (sub *Leptosph.*).

*Hab. in culmis Secalis in « Arduennis »* (*Tab. LXXXI, fig. 2.* — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia  $\frac{1}{5}$  mm. d.; asci 65-70  $\times$  8-10; sporidia 16-18  $\times$  4; setulae 50-60  $\times$  3-4.

**Pocospshaeria eriophora** (Cooke) Berl. *Lept. erioph.* Sacc. *Syll. Pyr.* II, p. 87. *Sphaeria eriophora* Cooke Grev. V, p. 153. *Leptosphaeria eutypoides* Peck in 38 *Rep. St. Mus.* p. 105. *Sacc. Suppl. I Syll.* p. 767.

*Hab. in caulibus emortuis Chenopodii, Amaranthi et Lappae in « Amer. bor. »* (*Tab. LXXXI, fig. 3.* — Ex specim. orig. *L. eutypoidis* a claro Peck benevole communic. cum iis orig. *L. eriophorae* minutim. comp.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 70-85  $\times$  10-14; sporidia 16-18  $\times$  7-8.

**CHITONOSPORA** Bomm. Rouss. et Sacc. *Suppl. Syll.* p. 797.

Perithecia ut in *Leptosphaeria*, sporidia *Pseudovalsae*.

**Chitonospora Ammophila** Bomm. Rouss. et Sacc. l. c.

*Hab. in foliis emortuis Psammae arenariae « Ostende Belgii ».* (*Tab. LXXXI, fig. 4.* — Ex specim. orig. a claro Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 75-90  $\times$  15-16; sporidia 24-27  $\times$  8-10. Sporidiorum fabrica *Pseudovalsis* cognata sed peritheciorum naturâ ab eis longe recedens.

**GIBBERIDEA** Fuck. *Symb. Myc.* p. 168. *Sacc. Syll. Pyr.* II, p. 132. *Winter Pilze II*, p. 214.

Perithecia caespitoso-erumpentia; asci octospori; sporidia transverse septata, melleo-fuliginea. Adsunt status secundarii *Diplodia Ceuthospora*.

**Gibberidea Visci** Fuck. *Symb. Myc.* p. 168 *Winter Pilze II*, p. 214. *Sacc. Syll. Pyr.* II, p. 132. *Brefeld Unters. Myk.* X, p. 208, t. VI, fig. 28.

*Hab. in ramis emortuis et foliis Visci in « Germania ».* (*Tab. LXXXI, fig. 5.* — Ex icono Brefeldiana).

Perithecia botryoideo-acervata; asci 114-14; sporidia 38-7. (saltem sec. Fuckel).

**Gibberidea plagia** (Cooke et Massee) Sacc. Suppl. Syll. Pars I, p. 820.

*Melanomma plagia* Cooke et Massee in Grev. XVII, p. 8.

*Hab. in ramis vivis Cassinia aculeatae « Port Phillip Australiae ».* (Tab. LXXXII, fig. 1. — Ex specim. orig. a cl. Cooke benevolc comm.).

Perithecia stromate subcutaneo, erumpenti, convexulo insidentia,  $\frac{1}{3}$  mm. d.; asci 145-155 = 14-18; sporidia 38-45 = 11-13, primo tri-dein 5-septata, lutea, loculis extimis vix dilutioribus.

Est *Cucurbitaria* sporidiis non muriformibus.

**CERATOSPHAERIA** Niessl, Not. Pyr. p. 43, emend. Sacc. Syll. Pyr. II, p. 227. Winter Pilze II, p. 258.

Perithecia semiimmersa vel superficialia, subcoriacea vel subcarbonacea, atra collo plus minus elongato praedita. Asci octospori, paraphysati. Sporidia pluriseptata typice hyalina.

Est *Rhynchosphaeria* sporidiis hyalinis. Peritheciorum fabrica est etiam analogum genus *Ceratostomellae*, *Ceratostomatis*, *Rhynchosomatis*, *Lentomitae*, *Rhamphoriae* et *Ophioceratis*.

**Ceratosphaeria aeruginosa** Rehm Ascom. n. 531. Sacc. Syll. Pyr. II, p. 228. Winter Pilze II, p. 258. *Ceratosphaeria immersa* Winter in Hedw. 1881, p. 55, Sacc. Syll. I. c.

*Hab. in ligno putri Aceris et Salicis « Augsburg Germaniae » et « Zürich Helvetiae ».* (Tab. LXXXII, fig. 2. — Ex specim. orig. in Rehm I. c.).

Perithecia sparsa vel gregaria, nigro-viridula  $\frac{1}{2}$  mm. d.; rostro 0,5-2 mm. longo; asci 105-115 = 14-16; sporidia 52-56 = 5-6, diu hyalina dein pallide luteo-rufula.

*Ceratosphaeria aeruginosa* var. **minor** Rehm Asc. n. 789. Sacc. Suppl. Syll. Pars I, p. 871.

*Hab. in asceribus fabrefactis « Augsburg, Germaniae ».* (Tab. LXXXII, fig. 1. — Ex specim. orig. in Rehm I. c.).

Perithecia sparsa, erostrata,  $\frac{1}{2}$  mm. d.; flavo-viridula; asci 85-100 = 12-15; sporidia 38-42 = 5-6, diu hyalina, dein pallide flavo-rufula.

An aptius cum typo sub genere *Rhynchosphaeria* ponenda?

**Ceratosphaeria lampadophora** (B. et Br.) Niessl Not. Pyr. p. 43, Winter Pilze II, p. 258. Sacc. Syll. Pyr. II, p. 227. *Sphaeria lampadophora* B. et Br. Not. Brit. Fungi n. 882, tab. 11, fig. 28 Rabh. Fungi Eur. n. 139.

*Hab. in ligno putrescente in « Britannia » in ramis Hederae et Ulmi in « Belgio » et in trunco Aceris Carpini etc. in « Helvetia ».* (Tab. LXXXIII, fig. 2. — Ex specim. orig. a cl. Cooke et Pirotta benevolc comm.).

Perithecia gregaria, ligno infossa vel subsuperficialia,  $\frac{3}{4}$  mm. d., pulv. rulentio-viridula; asci 120-130  $\approx$  12; sporidia 56-62  $\approx$  4.

Sec. cl. Winter asci sunt multo longiores. (Cf. Winter l. c.).

**Ceratosphaeria pusilla** (Fuck.) Sacc. Syll. Pyr. II, p. 227. Winter Pilze II, p. 257. *Ceratostoma pusillum* Fuck. Symb. Myc. p. 128, Fungi rhen. n. 2012.

*Hab. in ligno putri Salicis triandrae, prope « Oestrich Germaniae »* (**Tab. LXXXIV, fig. 1.** — Ex specim. orig. in Fuck. l. c. a cl. Briosi benevole comm.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 130-150  $\approx$  7-8; sporidia 20-25  $\approx$  5-6.

**Ceratosphaeria crinigera** (Cooke) Sacc. Syll. Pyr. II. p. 227. *Sphaeria crinigera* Cooke in Grev. I. p. 156.

*Hab. in ligno pineo « King's Lynn Britanniae »* **Tab. LXXXIV. fig. 2.** — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia sparsa vel subgregaria,  $\frac{1}{3}$  mm. d.; asci 65-75  $\approx$  10-12; sporidia 12-14  $\approx$  4-6.

### Species non examinatae, dubiae, vel e genere amovendae (¹).

*Ceratosphaeria rostrata* (Kickx) Sacc. Non vidi; *C. fuscella* (Karst.) Sacc. *C. cinerea* (Quel.) Sacc. et *C. Sarawaccensis* (Ces.) Sacc. Non vidi. *C. rhenana* (Auersw.) Berl. *C. mycophila* W. id. *C. microdoma* E. et C. est *Rhynchosphaeria*.

### Clavis analytica generum Sphaeriacearum Phaeophragmiarum.

#### I. Simplices.

A Cortice tectae vel demum crumpentes.

§ Perithecia pariete crassa praedita

Sporidia halone mucoso cincta, magna

**Massaria**

§§ Perithecia membranacea

† Perithecia clypeo stromatico destituta

a Perithecia non pilosa neque byssiseda

Sporidia mutica, concoloria vel polis raro vix pallidioribus

**Leptosphaeria.**

Sporidia mutica, polis hyalinis, halone mucoso cincta

**Chitonospora.**

Sporidia mutica, halone mucoso destituta, loculis extiniis

hyalinis

**Passeriniella.**

Sporidia utrinque acute appendiculigera

**Ceriospora.**

Sporidia tantum basi appendiculigera

**Rebentischia.**

Sporidia articulo medio intensius colorato, caeteris valde crassiore

**Heptameria**

(¹) Genus *Ceratosphaeria* potius inter *Sphaeriaceas Hyalophragmias* est censendum et ab eo separandae *C. aeruginosa* et *C. microdoma* quae aptius in genere *Rhynchosphaeria* transferendae sunt.

Sporidia 16 in quoque asco, apice connexa	<b>Leptosphaerlopsis.</b>
aa Perithecia pilosa	
Sporidia ut in <i>Leptosphaeria</i>	<b>Pocospshaeria.</b>
++ Perithecia clypeo stromatico tecta	
Sporidia septis plerumque imperfectis	<b>Clypeosphaeria.</b>
AA Superficiales vel subsuperficiales	
§ Pilosae vel byssedae	
Perithecia potius pilosa, sporidiis concoloribus	<b>Chaetomastia.</b>
Perithecia potius bysseda, sporidia (saltem typice) polis pallidioribus	<b>Chaetosphaeria.</b>
\$\$ Glabrae	
+ Phytophilae	
a Perithecia levia, crostrata	
* Sporidia in articulos biloculares secedentia	<b>Ohleria.</b>
** Sporidia non secedentia	
Sporidia parvula vel maiuscula plus minusve fusoidea	<b>Melanomma.</b>
Sporidia maxima, distincte biconoidea, inaequilateralia	<b>Caryospora.</b>
aa Perithecia plus minusve sulcata, crostrata	
Sporidia navicularia	<b>Stuartella.</b>
aaa Perithecia levia, rostrata	<b>Rhynchosphaeria.</b>
++ Fimicola	
Perithecia saepe minuta; sporidia in articulos secedentia, opaca	<b>Sporormia.</b>
<b>II Caespitoso-crumpentes</b>	
Perithecia stromate insidentia (ut in <i>Cucurbitaria</i> )	<b>Gibberidea.</b>
<b>III Compositae, stromaticae</b>	
§ Stroma effusum, eutypeum	
Perithecia ligno immersa, collo plus minusve elongato	<b>Kalmusia.</b>
\$\$ Stroma valiforme, innatum	
+ Perithecia non furfuracea	
Asci plerumque octospori, numquam monospori	<b>Pseudovalsa.</b>
Asci monospori; sporidia maxima	<b>Titania.</b>
++ Perithecia furfuracea	
Asci octospori	<b>Thyridaria.</b>
\$\$\$ Stroma pulvinatum, emergens	
Perithecia in stromate subperipherica, plus minusve prominula	<b>Melogramma.</b>

Sec. **Hyalophragmiae** Sacc. Syll. Pyr. II, p. 152.

Simplices vel compositae. Sporidia oblonga vel fusoidea, pluriseptata, hyalina, nunquam muriformia.

**Cryptoderis** Auersw. Myc. Eur. Pyr. p. 29. Sacc. Syll. Pyr. II, p. 229. Wint. Pilze II, p. 590.

Perithecia innata, rostro laterali longo instructa, membranacea. Asci octospori. Sporidia transverse septata, ad septum medium secedentia, ita ut ascus sporidiis 16 repletus videatur.

**Cryptoderis lamprotheca** (Desm.) Auersw. Myc. Eur. Pyr. p. 29, tab. III., fig. 30 et tab. XI, fig. 150. Sacc. Syll. Pyr. II, p. 229. Winter Pilze II, p. 572 et 591. *Sphaeria lampr.* Desm. Ann. Sc. Nat. III, Sér. Vom. XVI, p. 315. *Sphaeria cryptoderis* Lév. Ann. sc. Nat. III Ser. tom. IX, p. 144. *Dothidea populinæ* West. III. Not. n. 7 *Pleuroceras ciliatum* Riess in Hedw. I, Band. p. 25 tab. VI, fig. 5. Rab. Herb. Myc. Ed. II, n. 746. *Linospora candida* Fuck. Symb. p. 123.

*Hab. in foliis delapsis, putrescentibus, Populi albae in « Gallia, Germania et Belgio »* (**Tab. LXXXIV, fig. 3.** — Ex specim. in Rab. l. c. a cl. Piotta benevole comm.).

Perithecia 200-250  $\mu$ . diam., membranacea, sparsa; asci 90-110  $\times$  8-9; sporidia 38-44  $\times$   $2\frac{1}{2}$ - $3\frac{1}{2}$ .

Sporidia mox ad septimentum primarium scissa et tum 16 in quoque asco.

**Species e genere amovendae vel non examinatae.**

*Cryptoderis Chamaemori* (Fr.) Sacc. est novi generis (*Gnomoniopsis* Berl.) typus. *C. oligotheca* St. et Grev. Non vidi.

**Gnomoniopsis** Berl. nov. genus.

Perithecia innata, rostro longiusculo praedita, membranacea. Asci octospori. Sporidia fusoideo-elongata, transverse septata, articulis non secedentibus.

**Gnomoniopsis Chamaemori** (Fr.) Berl. *Cryptoderis Chamaemori* Sacc. Syll. Pyr. II, p. 230. *Sphaeria Chamaemori* Fr. Syst. Myc. II, p. 519. *Gnomonia Cham.* Niessl in Oest. Bot. Zeitschr. 1875. p. 48, Karsten Myc. Fenn. II, p. 123, Winter Pilze II p. 588 *Gnomonia riparia* Niessl N. Kern. p. 47, Winter l. c. *Cryptoderis riparia* Sacc. l. c.

*Hab. ad nervos primarios et petiolis Rubi Chamaemori, R. corylifolii, et R. fruticosi et in caulis siccis Epilobii hirsuti in « Lapponia, Fennia, Germania, Italia et Austria »* (**Tab. LXXXV fig. 1.** — Ex specim. Niessleanis in Herb. Sacc.).

Perithecia  $\frac{1}{3}$  mm. d.; asci 28-35  $\times$  6-7; sporidia 16-18  $\times$   $2\frac{1}{2}$ - $3\frac{1}{2}$  (sine app.).

**Gnomoniopsis Chamaemori** var. **misella** (Niessl) Berl. *Gnomonia misella* Niessl Neue Kern. p. 48. Winter Pilze II, p. 588. *Cryptoderis misella* Sacc. Syll. II, p. 230.

*Hab. in caulis siccis Hyperici perforati, prope « Gratz Styriae » A typo vix differt peritheciis depresso, ostiolo conico, brevi, sporidiisque paulo minoribus (Ex specim. orig.).*

### **WINTERELLA** Berl. n. gen.

Perithecia gregaria, superficialia, tuberculigera. Asci octospori. Sporidia, ut videtur, demum pluriseptata.

Species unica, et genuina, est *Winterella tuberculigera*. Genus vero *Zignoellae* valde affine sed satis distinctum.

Genus *Winteria* est hyalodictya, et in familia « *Dictyosporac* » pro *Winterina*, quod posterius est, (cum speciebus *W. crustosa*, *W. rhoia*, *W. coerulea*, *W. viridis*, *W. lichenoides*) locandum.

**Winterella tuberculigera** (Ell. et Ev.) Berl. *Winteria tuberculigera* Ell. et Ev. Prooc. Phil. 1890, p. 240, et N. Am. Pyr. p. 212. Sacc. Suppl. Syll. Pars. I, p. 870.

*Hab. in cortice Prunorum « London, Canada Am. bor. » (Tab. LXXXV, fig. 2. — Ex specim. orig. a cl. Ellis benevole comm.).*

Perithecia gregaria,  $\frac{1}{3}$  mm. d., rugoso-tuberculigera, superficialia; asci 32-36  $\approx$  8-9; sporidia  $6-8 \times 2-2\frac{1}{2}$ ; an demum triseptata?

### **Species e genere excludendae vel non examinatae.**

*Winteria excellens* Rehm est *Discomyces*. *W. ordinata* (Fr.) Sacc. Non vidi. *W. culmigena* Karst. est *Gibberella Saubinetti* sec. specim. orig.

### **ZIGNOELLA** Sacc. Mich. I, p. 346. Syll. Pyr. II, p. 214.

Perithecia levia, subsuperficialia, ligni-corticola, carbonacea. Asci octospori. Sporidia plus minusve elongata, pluriseptata.

Est *Melanomma hyalosporum*.

**Zignoella pygmaea** (Karst.) Sacc. Mich. I, p. 346. *Sphaeria pygmaea* Karst. Myc. Fenn. II, p. 93, Rev. atque Syn. Asc. Fenn. p. 51. Rehm asc. n. 889.

*Hab. in ligno vetusto Hyppophaes rhamnoidis et Alni prope « Wasa et Mustiala Fenniac » nec non in « Germania » (Tab. LXXXV fig. 3. — Ex specim. Rehmianis).*

Perithecia gregaria,  $\frac{1}{5}$  mm. d.; asci 45-50  $\times$  4-5; sporidia 6-8  $\times$  2-3.

Vix *Zignoella* aptius *Melanopsamma*.

**Zignoella groenendalensis** Sacc. Bomm. et Rouss. in Sacc. Misc. Myc. I, p. 17 et Suppl. I, Syll. p. 866. et Florul. p. 203.

*Hab. in ligno fagineo putri « Groenendael » prope « Bruxelles in Belgio ».*  
**(Tab. LXXXV fig. 4.** — Ex spec. orig. a cl. Sacc. benevole comm.).

Perithecia gregaria vel hic inde sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 85-95 = 6-7; sporidia 12 = 5. senescendo spurie 1-septata.

**Zignoella obliqua** Rom. F. aliq. Succ. p. 24. Sacc. Supp. I, Syll. p. 868.

*Hab. in cortice emortuo Salicis « Upsaliae, Succiae »* (**Tab. LXXXV fig. 5.** — Ex specim. orig. in Herb. Sacc.).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 80 100 = 79; sporidia 30-32 = 4.

Sporidiorum forma ad *Z. Archerii* et *Z. rhodobapham* appropinquatur.

**Zignoella? rhodobapha** (B. et Br.) Sacc. Syll. Pyr. II, p. 221. *Sphaeria rhodobapha* B. et Br. Brit. Fungi n. 1334. tab. XXI fig. 29.

*Hab. in ramis decorticatis, roseo-maculatis in « Britannia »* (**Tab. LXXXVI, fig. 1.** — Ex spec. orig. a cl. Cooke benevole communicatis).

Perithecia sparsa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci... non visi; sporidia 16 20 = 4-5. Si macularum ramorum fungillus causa sit, mihi valde dubium. Ascos non vidi. Species omnibus characteribus *Sphaeropsidearum* gaudet sed eam hic retuli sive cl. Berkeley.

**Zignoella Archerii** (Berk.), Sacc. Syll. Pyr. II, p. 216. *Sphaeria Archerii* Berk. F. Tasm. II, 280.

*Hab. in ligno putrescente in « Tasmania ».* (**Tab. LXXXVI, fig. 2.** — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia conferta, stromate planiusculo, elevato, atro, inserta,  $\frac{1}{3}$  mm. d.; asci 70-80 = 8-11; sporidia 20-25 = 4-5, hyalina, 1-septata. demum (an senescendo?) fuliginea, sed numquam (saltem in specimine observato) 3-septata. An novi generis typus. ).

**Zignoella? latericolla** (Berk.) Sacc. Syll. II, p. 222. *Sphaeria latericolla* Berk. North Am. Fungi p. 181 nec. De Cand.

*Hab. in lignis in « Carolina inf. et Pennsylvania Am. bor. »* (**Tab. LXXXVI, fig. 3.** — Ex specim. orig. a cl. Cooke benevole communicatis).

Perithecia  $\frac{1}{4}$  mm. d., gregaria; asci.... non visi; sporidia 25-30 = 10-12. Species in genere valde incerta. Ostiola vix lateralia.

**Zignoella exigua** (C. et P.) Sacc. Syll. II, p. 215. Ell. et Ev. N. Am. Pyr. p. 187. *Sphaeria exigua* C. et P. 30 Rep. St. Mus.

*Hab. in ligno putri dejecto « Riesfield Springs Amer. bor. »* (**Tab. LXXXVI, fig. 4.** — Ex spec. orig. a cl. Cooke benevole comm.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 45-50 = 10-12; sporidia 16-18 = 6-7.5.

Semper sporidia didyma observavi, rarius plasmate irregulariter 2-4 partito Aptius ad *Melanopsamma* transferenda, certe vix et aegre *Zignoella*.

**Zignoella seriata** (Curr.) Sacc. Syll. Pyr. II, p. 220. *Sphaeria seriata* Curr. Linn. Trans. XXII, pag. 329 tabella 59 figura 121. *Sphaeria pusilla* Cooke Handb. n. 2668.

*Hab. in lignis denudatis in « Britannia » (Tab. LXXXVI, fig. 5. — Ex specim. *Sph. fusillae* a cl. Cooke benev. comm.).*

Perithecia seriata,  $\frac{1}{5}$  mm. d.; asci 60-75  $\times$  6-8; sporidia 16-18  $\times$  3.

**Zignoella Campi-Silii** Sacc. Mich. II, p. 340 Syll. Pyr. II, p. 219. *Melanomma Campi-Silii* Sacc. Fungi It. tab. 290. Mich. I, p. 449.

*Hab. in ligno denudato duriore fagineo « Cansiglio, Treviso, Ital. bor. » (Tab. LXXXVII, fig. 1. — Ex specim. orig. a cl. Saccardo benevole comm.).*

Perithecia gregaria,  $\frac{1}{5}$  mm. d., asci 90-100  $\times$  6-8; sporidia 12-15  $\times$  4-4  $\frac{1}{2}$ .

**Zignoella segregata** (B. et C.) Sacc. Syll. Pyr. II, p. 219 *Sphaeria segregata* B. et B. North Am. Fungi n. 903.

*Hab. in ligno putri « Carolina Am. bor. » (Tab. LXXXVII, fig. 2. — Ex spec. orig. a cl. Cooke benevole comm.).*

Perithecia subgregaria,  $\frac{1}{5}$  mm. d.; asci 60-70  $\times$  6-8; sporidia 12-15  $\times$  4.

Videtur formam evolutiorem *Zign. Campi-Silii*.

**Zignoella punctiformis** Sacc. et Th. Mich. II, p. 320 Syll. Pyr. II, p. 215.

*Hab. in cortice interiori Populi « Lyon Galliae » (Tab. LXXXVII, fig. 3. — Ex spec. orig. in Herb. Sacc.).*

Perithecia dense gregaria, 100-120  $\mu$ . diam.; asci 70-80  $\times$  15-17; sporidia 17-19  $\times$  7-8. Merito prope *Zign. ovoideam* var. *Rumsalensem* posita.

**Zignoella obliterans** (B. et Br.) Berl. *Sphaeria obliterans* B. et Br. Brit. Fungi n. 890, tab. 11, fig. 54. *Melanomma obliterans* Sacc. Syll. Pyr. II, p. 101.

*Hab. in ramis decorticatis pineis « Batheaston Britanniae » Tab. XCVI, fig. 3. — Ex specim. orig. a cl. Cooke benevole comm.).*

Perithecia sparsa, semiinfossa,  $\frac{1}{3}$  mm. d.; asci 70-80  $\times$  10-12; sporidia 18-22  $\times$  5-6.

**Zignoella herbana** Pass. Funghi Nuovi IV, n. 23. Sacc. Suppl. Tot. Syll. I, pag. 861.

*Hab. in cortice vetusto Oleae prope « Orvieto Italiae » (Tab. XCVI, fig. 1. — Ex specim. orig. a cl. Passerini benevole comm.).*

Perithecia subsparsa,  $\frac{1}{4}$  mm. d.; asci 50-60  $\times$  10; sporidia 16-18  $\times$  5-6.

**Zignoella crustacea** (Karst.) Sacc. Syll. Pyr. II, p. 220. *Sphaeria crustacea* Karsten Myc. Fenn. II, p. 95. Rev. Asc. Fenn. p. 51.

*Hab. in ligno Pini silvestris vetusto in « Fennia » (Tab. LXXXVII, fig. 4. — Ex spec. orig. a cl. Karsten benevole communic.).*

Perithecia crustacee conferta,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 55-65  $\times$  7-8; sporidia 20-22  $\times$  3-4.

**Zignoella translucens** Karst. in Hedw. 1888, Sacc. Suppl. I, Syll. p. 864. *Hab. in ligno Piceae excelsae prope « Vasam Fenniac » (Tab. LXXXVII, fig. 5. — Ex specim. orig. a cl. Karsten benevole comm.).*

Perithecia  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 50-60  $\times$  10-12; sporidia 17-19  $\times$  5.

Affinis *Z. punctiformi*.

**Zignoella Maingayi** (Cooke) Sacc. Syll. Pyr. II, p. 224. *Cenisthaeria Main-gayi* Cooke in Grev. XI, p. 76.

*Hab. in cortice prope « Shanghai Sinarum »* (Tab. LXXXVII, fig. 6. — Ex spec. orig. a cl. Cooke benevole comm.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d : asci 95-105 = 1012: sporidia 22-25 = 4-5.

Vix *Zignoella*. An aptius *Metasphaeria*?

**Zignoella soluta** (C. et Ell.) Sacc. Syll. Pyr. II, p. 216. *Sphaeria soluta* C. et E. in Grev. V, p. 54, tab. 80, fig. 16.

*Hab. in asseribus pineis « New Jersey Am. bor. »* (Tab. LXXXVIII, fig. 1. — Ex spec. orig. a cl. Cooke benevole comm.).

Perithecia sparsa, saepe ostiolo crasso, cylindraceo, fere lophiostomaceo instructa,  $\frac{1}{4}$  mm. d.; asci, jam fere resorpti, 80 = 17: sporidia 17-20 = 6-7. Sec. Ell. et. Ev. (N. Am. Pyr. p. 180) est var. *Z. diaphanae*. Certe ei valde affinis et verisimiliter haud separanda.

**Zignoella prorumpens** (Rehm) Sacc. Syll. Pyr. II, p. 223. *Trematosphaeria prorumpens* Rehm Asc. n. 480.

*Hab. ad asseres pineos prope « Augsburg Germaniae »* (Tab. LXXXVIII, fig. 2. — Ex specim. orig. in Rehm l. c.).

Perithecia subsparsa,  $\frac{1}{3}$  mm. d.: asci 130-140 = 7-8: sporidia 18-20 = 5-6.

**Zignoella eutypoides** Sacc. Mich. II, p. 248. Syll. Pyr. II, p. 216.

*Hab. in truncis ramisque Rosae emortuis in « Monte Cimon Ital. bor. »* (Tab. LXXXVIII, fig. 3. — Ex spec. orig. a cl. Saccardo benevole comm.).

Perithecia gregaria, basi ligno insculpta, vel crusta stromatica, ad *Eutypae* instar, tecta,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.: asci 100-110 = 6-7: sporidia 18-20 = 3-4.

Ascis et sporidia tantum inveni in perith. crusta stromatica tectis, dum perith. subsuperficialia gregaria, ostiolo longiusculo praedita, semper sterilia inveni. Speciem fide summi Magistri mei retuli. Si perithecia gregaria ab iis stromate tectis aliena sunt, species certe a genere removenda. An duas species?

**Zignoella minutissima** (Karst.) Sacc. Syll. Add. II, p. LXII et Suppl. I, pag. 865 Karst. Rev. Asc. Fenn. p. 41. *Sphaeria minutissima* Karst. in Hedw. 1883, pag. 41.

*Hab. in ligno velusto ad « Aboam Fenniae »* (Tab. LXXXIX, fig. 1. — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.: asci 55-65 = 9-11: sporidia 10-10 = 4-5.

Affinis *Zign. transluc.* quae huius fere varietas habenda.

**Zignoella pachyspora** Sacc. Bomm. et Rouss. in Bull. Soc. Bot. R. Belg. 1880, p. 173, Sacc. Syll. Suppl. I, p. 800.

*Hab. in ligno Populi submerso « Jenk in Belgio »* (Tab. LXXXIX, fig. 2. — Ex specim. orig. a cl. Sacc. benevole comm.).

Perithecia dense gregaria,  $\frac{1}{3}$  mm. d.: asci 150-100 = 10-11: sporidia 20-25 = 8.

**Zignoella diaphana** (C. et Ell.) Sacc. Syll. Pyr. II, p. 221. Ell. et Ev. N. Am. Pyr. p. 187. *Sphaeria diaphana* C. et E. Grev. V. p. 53, tab. 80, fig. 15.

*Hab. in ramis decorticatis* « New Jersey Am. bor. » (**Tab. LXXXIX, fig. 3.**)

— Ex specim. orig. a cl. Cooke et Ellis benevole comm.).

Perithecia subsparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 85-95  $\approx$  12-14; sporidia 18-20  $\approx$  6-7.

**Zignoella jurana** Sacc. et Berl. Misc. Myc. II, p. 19, tab. X fig. 25. Sacc. Add. Syll. Pyr. I, p. 860.

*Hab. in ligno indurato Lonicerae in monte* « Jura Helvetiac » (**Tab. LXXXIX fig. 4.**) — Ex spec. orig. in Herb. Sacc.).

Perithecia subsparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 60-70  $\approx$  10-12; sporidia 16-18  $\approx$  4-5.

Affinis *Z. diaphanae*.

**Zignoella immersa** Karst. Symb. Myc. Fenn. XXVI, p. 29 Sacc. Suppl. I, Syll. p. 864.

*Hab. in assere pinco fabrefacto intemperiis exposito* « Mustiala Fenniae » (**Tab. XC fig. 1.**) — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia gregaria vel vix sparsa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 150-160  $\approx$  18-20; sporidia 34-36  $\approx$  6-7. Affinis *Z. nitidulae* et *Z. fallaci*, a quibus praeceps magnitude sporidiorum differt.

**Zignoella sequanica** Sacc. et Malbr. Fungi Gall. Ser. V. n. 2169, Suppl. Syll. I, p. 862.

*Hab. in ramis decorticatis emortuis, dejectis Salicis ad ripas* « Sequanac » prope « Rouen Galliae » (**Tab. XC, fig. 2.**) — Ex spec. orig. a cl. Sacc. benevole comm.).

Perithecia vix gregaria,  $\frac{1}{3}$  et fere  $\frac{1}{2}$  mm. d.; asci 140-160  $\approx$  16-18; sporidia 34-36  $\approx$  9-11. Affinis *Z. fallaci* sed major. An sporidia demum 5-septata? A *Z. rhodobapha* longe distat.

**Zignoella Morthieri** (Fuck.) Sacc. Mich. I, p. 347. Syll. Pyr. II, p. 222. *Trematosph. Morthieri* Fuck. Symb. Myc. App. I, p. 306. Winter Die Pilze II, p. 263, Rehm Asc. n. 87. Thuem. Myc. Un. n. 167. *Tremat. Picastra* Fuck. Symb. Myc. p. 162 nec. Fries. *Zigu. albocincta* Sacc. Syll. I. c. 224, *Sphaeria albocincta* C. et Ell. Grev. VII, p. 9.

*Hab. in ligno exsiccatu snputri Pini in* « Jura Helvetiac » *et in* « Germania et Am. bor. » (**Tab. XC, fig. 3.**) — Ex spec. orig. in Thuem. I. c.).

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 65-75  $\approx$  15-16; sporidia 24-27  $\approx$  7-8. Affinis *Z. diaphanae*.

**Zignoella ovoidea** (Fr.) Sacc. Mich. I. p. 346, Syll. Pyr. II, p. 215. Karst. Rev. Asc. Fenn. p. 41. *Melanomma ovoid.* Winter Die Pilze II, p. 246. Fuck. Symb. p. 59. *Sphaeria ovoid.* Fries Syst. II, p. 459. *Sphaeria pulviscula* Curr. Simpl. Sphaer. p. 320, tab. 58, fig. 52. *Melanomma pulviscula* Sacc. Myc. Ven. Spec. p. 114, tab. XI, fig. 33-36. Winter Pilze II, p. 244. *Zignoella Pulv.* Sacc.

Syll. l. c. p. 214. Ell. et Ev. N. Am. Pyr. p. 186. Brun. Contr. Fl. Myc. Ouest, Pyr. p. 190. Bomm. et Rouss. Fl. p. 203.

*Hab. supra lignum corticemque Quercus Coryli et Betulae in « Fennia australi, Suecia, Gallia, Germania, Britannia, Belgio et Amer. bor. »* (**Tab. XCII, fig. 1.**) — Ex specim. in Rehm. Asc. n. 639, sub *Melanomma*, cum originalibus *Zign. pulvisculae* et *Z. cariosae* comp.).

Perithecia dense gregaria,  $\frac{1}{3}$  mm. d.; asci 90-100  $\times$  9-12; sporidia 25-28  $\times$  4-5, primo biconoidea dein triseptata in massa pallidule viridula.

**Zign. ovoidea** var. **Runsalensis** Karst. Symb. Myc. Fenn. XIII, p. 6. Rev. atque Syn. Asc. Fenn. p. 41.

*Hab. in ligno quercino sicco in « Runschala » Fenniae.* (**Tab. XCII, fig. 2.**) — Ex spec. orig. a claro Karsten benevole comm.).

Perithecia gregaria, minuta,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 45-55  $\times$  8-10; sporidia 14-18  $\times$  4-5. A typo profunde differt et potius species. *Z. punctiformi* affinis.

**Zignoella Mori** (Fab.) Sacc. Suppl. Syll. Pyr. I, pag. 862. Berlese Fungi Mor. tab. 28, fig. 7-11. *Trematosphaeria Mori* Fabre Spher. Vaucl. II, p. 53, fig. 28.

*Hab. ad lignum subputrem et cavum Mori albae « Vaucluse, Galliae »* (**Tab. XCVI, fig. 2.**) — Ex specim. orig. a cl. Fabre benevole comm.).

Perithecia gregaria, irregulare, poro minutissimo pertusa, dein rima plus minus elongatâ aperta,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-110  $\times$  10-12; sporidia 25-28  $\times$  5-6.

**Zignoella macrasca** Sacc. Mich. II, p. 138, Syll. Pyr. II, p. 223. Ell. et Ev. N. Am. Pyr. p. 188.

*Hab. in ligno corrupto in « Carolina Amer. bor. »* (**Tab. XCII, fig. 3.**) — Ex specim. orig. a cl. Saccardo benevole comm.).

Perithecia  $\frac{1}{2}$  mm. d.; subsparsa; asci 200  $\times$  10; sporidia 30  $\times$  6.

**Zignoella atrella** (C. et Ell.) Sacc. Syll. Pyr. II, p. 215, *Sphaeria atricella* C. et E. in Grev. VI, p. 94, tab. 100, fig. 29.

*Hab. in ligno subputri Aceris « New Jersey Americae boreal. »* (**Tab. XCII, fig. 1.**) — Ex spec. orig. a cl. Cooke benev. comm.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 135-145  $\times$  10-12; sporidia 26-32  $\times$  5-6.

**Zignoella nitidula** Sacc. Mich. II, p. 139. Syll. Pyr. Vol. II, p. 220 et in Thuem. Fungi Sib. n. 759.

*Hab. in cortice levi Betulae verrucosae « Minussink Sibiriae asiaticae »* (**Tab. XCII fig. 2.**) — Ex spec. orig. a cl. Sacc. benevole comm.).

Perithecia gregaria vel subsparsa,  $\frac{1}{5}$  mm. d.; asci 60-70  $\times$  12-14; sporidia 22-24  $\times$  4.

Valde affinis *Z. fallaci* cuius aptius ut varietas habenda.

**Zignoella Hanburiana** Penz. et Sacc. Funghi Mort. p. 6. tab. IV, fig. 1, Sacc. Syll. Suppl. p. 861.

*Hab. in ligno velusto Óleae sativae « Mortola Ital. bor. » (Tab. XCII, fig. 3.*  
*— Ex spec. orig. a cl. Sacc. benevole comm.).*

*Perithecia sparsa,  $\frac{1}{3}$  et fere  $\frac{1}{2}$  mm. d.; asci 120-130  $\approx$  15-20; sporidia 32-35  $\approx$  8-10.*

**Zignoella collabens** (Curr.) Sacc. Syll. Pyr. II, p. 221. *Sphaeria collabens* Curr. Linn. Trans. XXII p. 320 tab. 58, fig. 51.

*Hab. in corticibus et lignis \*in « Britannia » (Tab. XCIII, fig. I. — Ex spec. orig. a cl. Cooke benevole comm.).*

*Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 120-130  $\approx$  12-15; sporidia 40-45  $\approx$  5-7.*

**Zignoella fallax** Sacc. Syll. Pyr. II, p. 218. *Melanomma fallax* Sacc. Mich. I, p. 41, Fungi It. tab. 298.

*Hab. in ligno denudato quercino « Selva, Treviso Ital. bor. » (Tab. XCIII, fig. 2. — Ex spec. orig. a cl. Saccardo benev. comm.).*

*Perithecia laxe gregaria,  $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  9-11, sporidia 20-25  $\approx$  5-7  $\frac{1}{2}$ .*

**Zignoella dolichospora** Sacc. Mich. I, p. 401, Fungi It. tab. 342, Syll. Pyr. II, p. 218.

*Hab. in ligno caeso quercino « Montello Ital. bor. » (Tab. XCIII fig. 3. — Ex spec. orig. a cl. Saccardo benevole comm.).*

*Perithecia dense gregaria,  $\frac{1}{5}$  mm. d.; asci 100-110  $\approx$  12-14; sporidia 26-32  $\approx$  5-6.*

In specim. examinatis sporidia semper 5-septata observavi.

**Zignoella macrospora** Sacc. Mich. I, p. 346, Syll. Pyr. II, p. 221. *Melanomma macrosporum* Sacc. Mich. I, p. 449, Fungi It. tab. 300.

*Hab. in ligno decorticato fagineo in silva « Cansiglio It. bor. » (Tab. XCIV, fig. I. — Ex spec. orig. a cl. Sacc. benevole comm.).*

*Perithecia subgregaria,  $\frac{1}{5}$  mm. d.; asci 100-110  $\approx$  7-9; sporidia 36-40  $\approx$  2  $\frac{1}{2}$ -3.*

**Zignoella nematasca** S. et S. Mich. I, p. 401. Sacc. F. it. t. 343 Syll. Pyr. II, p. 224.

*Hab. in ramulis decorticatis Fraxini Orni in « Euganeis Ital. bor. » (Tab. XCIV, fig. 2. — Ex spec. orig. a cl. Sacc. benevole comm.).*

*Perithecia sparsa,  $\frac{1}{3}$  mm. d., semiimmersa; asci 150-170  $\approx$  9-10; sporidia 30-33  $\approx$  6-7. An potius *Saccardöella*?*

**Zignoella populina** Br. et Har. Rev. Myc. 1891, p. 16. Sacc. Suppl. Syll. Pars I, p. 868.

*Hab. in cortice Populi « Mery-sur-Seine, Aube, Galliae » (Tab. XCV, fig. I. — Ex spec. orig. a cl. Hariot benevole comm.).*

*Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$  16-19; sporidia 36-40  $\approx$  8-9, perfecte hyalina.*

**Zignoella corticola** (Fuck.) Sacc. Syll. Pyr. II, p. 222. *Trematosphaeria corticola* Fuck. Symb. Myc. p. 162, F. rhen. n. 2528 Winter Pilze II, p. 276.

*Hab. in corticibus Ulmi campestris et Salicis fragilis in « Rhenogovia »* (Tab. XCIV, fig. 2. — Ex spec. orig. in Fuck. Fungi rhen. l. c. editis et a cl. Briosi benevole comm.).

Perithecia gregaria, plerumque semiimmersa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d., carbonacea; asci 105-120  $\approx$  16-18; sporidia 32-35  $\approx$  6-8, primo binucleata, dein triseptata.

**Zignoella scalaris** (Dur. et Mont.) Berl. *Sphaeria scalaris* Dr. et M. Crypt. n. 835, et Fl. Alg. I. p. 510. *Metasphaeria scalaris* Sacc. Syll. Pyr. II. p. 168.

*Hab. in ramis Oleae europeae « Alger »* (Tab. XCVII, fig. 1. — Ex spec. orig. a cl. Hariot Musaei Parisiensis benevole comm.).

Perithecia sparsa vel vix gregaria, usque fere 1 mm. d., contextu carbonaceo, crasso; asci perfecte cylindracei, 240-260  $\approx$  10; sporidia monosticha 30-33  $\approx$  8. Aptius *Saccardoella*?

**Zignoella Astrocaryi** (Cooke) Sacc. Syll. Pyr. II. p. 218. *Sphaeria Astrocar. Cooke* Some Extraeur. Fungi in Grev. VII. p. 15.

*Hab. in petiolis Astrocaryi in « Brasilia »* (Tab. XCVIII, fig. 1. — Ex spec. orig. a cl. Cooke benevole comm.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  15-17; sporidia 58-63  $\approx$  6-7. Perithecia basi piligera. An *Lasiosphaeria*?

### Species non examinatae, dubiae vel e genere amovendae

Zign. conica (Fuck) Sacc. Non vidi. Z. aterrima (Fuck.) Sacc. id. Z. inflata (Ellis) Sacc. est *Winteria* Z. funicola (Ell.) Sacc. est *Pleospora* hyalospora. Z. rhitudodes (B. et Br.) Sacc. est *Melanomma* nam sporidia sunt lutea. Z. incerta Speg. Non vidi. Z. Proteus (B. et C.) Sacc. In specimin. orig. a cl. Cooke et cl. Hariot benevole missis stromata *Hypoxylaceam* quamdam immaturam indicant, dum perithecia cupulata ad Lichenem dictyosporum pertinent. Z. papillata (Fuck.) Sacc. Non vidi. Z. ostioloides (Cooke) Sacc. specim. orig. sterilia. Z. paecilostoma (B. et Br.) Sacc. est *Lophiotrema praemorsum*. Z. populicola (Cr.) Sacc. Non vidi, mihi valde dubia. Z. tingens (Ces.) Sacc. Non vidi. Z. verrucarioides (Cr.) Sacc. mihi valde dubia. Z. cryptarum (Fuck.) Sacc. Non vidi. Z. emergens (Karst.) Sacc. Specim. orig. sterilia. Z. Sequoiae (Peck.) Sacc. Non vidi. Z. transylvanica Rehm Potius *Saccardoella*. Z. Dubyi (D. Not.) Non vidi. Z. insculpta (Fr.) Sacc. specim. a cl. Oudemans benevole communic. sterilia inveni. Zignöella Mülleri (Duby) Berl. (*Lept. Mull.* Sacc. Syll. II. p. 39). Specimina origin. natura perith. certe ad Zign. spectant, sed haud rite matura observavi. Species quare mihi incerta videtur. Z. Haynaldii Sc. et S. non vidi. Z. ramenticola Sch. et S. id. Z. Eboli Malbr. et Brun. est *Lophiotr. praemorsum*, ex specim. orig. Z. Bizzozeriana Cocc. et Mor. est *Giberella pulicaris*. Z. salicicola Fabr. non vidi. Z. longispora Speg. id. Z. leptospora Sp. id. Z. patagonica Speg. id. Z. australis Speg. id. Z. adjuncta Pass. est *Melanomma Pulvis-pyrius*. Sporidia sunt fuscidula, ad septa constricta, loculis mediis obscurioribus, Z. Oudemansi Karst. Specim. orig. sterilia. Z. paraguayensis Speg. Perithecia

contextu molli amoene coeruleo-virescenti, Nectriaceam indicant. *Z. intermedia* Pass. non vidi *Z. Vincentii* Cooke in specim. orig. asci et sporidia jam delecta, sed perithecia sunt distincte lophiostomacea. *Z. ignobilis* (Karst.) Sacc. specimina originalia fungillum immaturum indicant. *Z. hysteroides* est *Lophiotrema* alf. *L. praemorsa* *Z. Matthiolae* Cooke. Ex specim. orig. nihil eruere portui. *Z. subcorticalis* Cooke Non vidi. *Z. sociabilis* Sch. et S. id. *Z. dealbata* Cooke id. *Z. megalospora* (Fab.) Sacc. id. *Z. Britzelmayri* Sacc. id. *Z. subvestita* (E. et E.) Berl. id. *Z. fuegiana* Speg. id. *Z. querceti* Cooke id. *Z. antarctica* Speg. id. *Z. australis* Cooke id.

**SACCARDOELLA** Sacc. Mich. I, p. 461. Syll. Pyr. II, p. 199.

Perithecia carbonacea, immersa. Asci octospori. Sporidia pluries septata, subinde appendiculigera.

**Saccardoella transylvanica** (Rehm) Berl. *Zignoella transylvanica* Rehm Ascom. Lojk. n. 46. p. 47, Sacc. Syll. Pyr. II, p. 225.

*Hab. ad ramum exsiccatum Syringae vulgaris prope «Petrilla Transylvanica» (Tab. XCIII, fig. 2. — Ex specim. orig. a cl. Rehm benevole communicato.).*

Perithecia sparsa, ligno immersa, fere 1 mm. diam.; asci 260-300  $\times$  12, sporidia 45-50  $\times$  8-9, mutica. A *Zignoëllis* differt peritheciis ligno immersis.

**Saccardoella montellica** Speg. Mich. I, p. 461. Sacc. Fungi It. tab. 630, Syll. Pyr. II, p. 191.

*Hab. ad corticem vetustum Quercuum in sylva «Montello, Ital. bor.» (Tab. XCIX, fig. 1. — Specim. non vidi. Adumbratio ex Sacc. Fungi it. I, c. decerpsi).*

Perithecia  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 400-450  $\times$  14-15; sporidia 100-115  $\times$  12, utrinque setulâ 10-15  $\times$  1 coronata, 20-30-septata.

*Saccardoellam canadensem* examinare nequivi.

**ACANTHOSTIGMA** De Not. Sfer. it. p. 85. Sacc. Syll. Pyr. II, p. 207. Winter Pilze II, p. 202.

Perithecia libera, sphaeroideo conoidea, setulis plus minus numerosis vestita. Asci octospori. Sporidia elongata vel fusoidea, 2 plurilocularia.

Species plerumque lignicolae, sed etiam nonnullae cauli-foliicolae.

**Acanthostigma Peltigerae** (Fuck.) Winter Die Pilze II, p. 203. *Trichosphaeria Peltigerae* Fuck. Symb. Nachtr. II, p. 25. Fungi rhen. n. 2531. *Enchiosphaeria Peltigerae* Sacc. Syll. Pyr. II, p. 207.

*Hab. in thallo decolorato vivo Peltigerac caninac in «Jura Helvetiac» (Tab. XCIX, fig. 2. — Ex specim. orig. in Fuck. I. c. a cl. Briosi benevole communicatis.)*

Perithecia sparsa, minuta  $\frac{1}{6}$ - $\frac{1}{4}$  mm. d., superne saepe breviter setigera; asci 70-80  $\times$  15-18; sporidia 17-20  $\times$  6-7, hyalina.

**Acanthostigma fennicum** (Karst.) Berl. *Lasiosphaeria Britzelmayri* var. *fennica* Karst. in Rev. Myc. 1887, p. 160. Sacc. Suppl. Syll. Pars I, p. 852.

*Hab. in cortice putri Betulae in prato mustialensi « Myllyperä Fenniae »* (**Tab. XCIX, fig. 3.** — Ex specim. orig. a cl. Karsten benevole communicatis).

Perithecia subsparsa,  $\frac{1}{3}$  mm. d., parcissime setigera; asci 110-120  $\approx$  6-8; sporidia 30-34  $\approx$  4-5. Certe valde affine *Lasiosph. Britzelm.*, quac verisimillime est *Acanthostigma* ab hoc haud nimis alienum.

***Acanthostigma affine*** Sacc. et Berl. *Miscell. Myc.* II, p. 28, tab. VIII, fig. 1. Sacc. *Suppl. Syll. Pars I.*, p. 854.

*Hab. in ramis putridis, decorticatis « Cervarese It. bor. »* (**Tab. C, fig. 1.**).

Perithecia subsparsa,  $\frac{1}{4}$  mm. d., setigera, setis 100-150  $\mu$ . longis; asci 90-100  $\approx$  12-14; sporidia 25-30  $\approx$  4-7, hyalina.

***Acanthostigma hispidulum*** (S. et S.) Berl. *Lasiosph. hispidula* Sacc. et Speg. in Mich. I, p. 406. F. it. tab. 390, *Syll. Pyr.* II, p. 199. Bomm. et Rouss. Fl. pag. 194.

*Hab. in culmis Graminum minorum « Italiae borealis » et in Pteride aquilina in « Belgio »* (**Tab. C, fig. 2.** — Ex spec. orig. a cl. Saccardo benevole comm.).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 50-60  $\approx$  8-19; sporidia 32-36  $\approx$  2  $\frac{1}{2}$ -3, hyalina.

Dimensiones spegazzinias excedentes invenimus (Cfr. Speg. l. c.).

***Acanthostigma Clintonii*** (Peck) Sacc. *Syll. Pyr.* II, p. 210. Ell. et Ev. N. Am. *Pyr.* p. 155. *Sphaeria Clintonii* Peck 30 Rep. St. Mus. t. II, fig. 19-23.

*Hab. in lignis deiectis « Alden Amer. bor. »* (**Tab. C, fig. 3.** — Ex spec. orig. a cl. Peck benevole comm.).

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 90-100  $\approx$  18-22; sporidia 40-41  $\approx$  5-7, hyalina.

***Acanthostigma byssophilum*** (Rehm) Sacc. *Syll. Pyr.* II, p. 211. *Winter Pilze* II, p. 202. *Trichosphaeria byssophila* Rehm *Beitr. Ascom.* in *Hedw.* 1882, pag. 121.

*Hab. in thallo Tapesiae prunicolae ad Alnum viridem prope « Rietzlem alp. Algeviae bavaricae »* (**Tab. C, fig. 4.** — Ex spec. orig. a cl. Rehm benevole communicatis).

Perithecia sparsa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d., pilis brevibus, acutis obsita; asci 60  $\approx$  10-11; sporidia 24-26  $\approx$  3-4.

***Acanthostigma Scopula*** (C. et P.) Ell. et Ev. *North Am. Pyr.* p. 154. *Sphaeria Scopula* C. et P. in *Grev. XV*, pag. 82 et *Rep.* 32 pag. 51. *Lasiosphaeria Scopula* Sacc. *Suppl. I.*, *Syll.* pag. 852.

*Hab. in ligno nudo « New York, New Jersey et Am. bor. »* (**Tab. CI, fig. 1.** — Ex spec. orig. a cl. Cooke benev. comm.).

Perithecia distincte setosa,  $\frac{1}{4}$  mm. d.; asci 90-100  $\approx$  10-14; sporidia 42-46 4-5; setae 55-65  $\approx$  5, atrac. A diagnosi Cookeana valde recedens. An duae species?

**Acanthostigma minutum** (Fuck.) Sacc. Syll. Pyr. II, p. 209. Winter Die Pilze II, p. 202. *Lasiosphaeria minuta* Fuck. Symb. Myc. p. 148. *Lasiosphaeria scleracantha* Sacc. Mich. I, p. 46. Fungi it. t. 560. *Acantost. sclerac.* Sacc. Syll. Pyr. II, p. 205.

*Hab. in ligno putri quercino et fagineo in « Helvetia et Ital. bor. ».* (Tab. CI, fig. 2. — Ex specim. orig. *Acanth. sclerac.* a cl. Sacc. benevole comm.).

Perithecia sparsa, minuta, 120-130  $\mu$  diam., setis rigidis dense tecta; asci 110-120  $\approx$  14-16; sporidia 50-56  $\approx$  5-7, dein 7-9 septata.

Post emendationes Winterianas ad diagnosim *Acant. minutu* ex examine specimin. original. excerptas, nullum adest discrimin inter speciem hanc et *Acanth. sclerac.* (Cfr. Winter l. c. et Berl. et Vogl. Add. Syll. p. 162).

*Acanth. minutum* (Fuck.) Sacc. Suppl. Syll. Pars I, p. 855, certe ad hanc speciem non spectat.

**Acanthostigma minutum** var. **brachysporum** Sacc. Syll. Pyr. II, p. 209. *Lasiosphaeria minuta* Sacc. Fungi Ven. Ser. II, n. 327, Fungi It. tab. 217.

*Hab. in ramis quercinis praeccipue inter rimas corticis in sylva « Montello It. bor. »* (Tab. CI, fig. 3. — Ex spec. orig. a cl. Sacc. benev. comm.).

Perithecia subsparsa, 120  $\mu$  diam., setis brevibus rigidis tecta; asci 60-70  $\approx$  12-16; sporidia 25-32  $\approx$  4-4  $\frac{1}{2}$ , hyalina.

A typo differt sporidiis minoribus. Sec. cl. Winter in typo sporidia 47-52  $\approx$  8-9 metiuntur. (Cfr. Winter Pilze II, p. 203).

**Acanthostigma perpusillum** De Not. Sfer. it. p. 85, tab. 94. Sacc. Syll. Pyr. II, p. 207. *Acanthostigma decastylum* Sacc. Syll. Pyr. II, p. 210 Ell. et Ev. North Am. Pyren. p. 155, Tab. 19, fig. 1-4 *Sphaeria decastyla* Cooke in Grev. VII, p. 52. *Lasiosphaeria subvelutina* Ell. et Ev. in Journ. Myc. III, p. 117, Sacc. Suppl. Syll. Pars I, p. 851. *Sphaeria cariosa* C. et E. in Grev. VI, p. 94, tab. 100, fig. 28. *Zignoella cariosa* Sacc. Syll. Pyr. II, p. 215.

*Hab. in ligno putri in « Lombardia Italiae borealis et in America boreali »* (Tab. CI, fig. 4. — Ex specim. orig. *Acanth. decastyli* a cl. Cooke benevole communicatis).

Perithecia subgregaria, parce setola,  $\frac{1}{4}\text{-}\frac{1}{5}$  mm. d.; asci 65-75  $\approx$  10-12 (non 150  $\mu$  longi ut in Ell. et Ev. l. c.); sporidia 22-25  $\approx$  4-5.

**Acanthostigma revocatum** Sacc. Syll. Pyr. II, p. 208. *Lasiosphaeria perpusilla* Sacc. F. Ven. Ser. II, p. 327, Fungi it. tab. 141.

*Hab. in ligno decorticato, subputri Salicis vitellinac « Selva, Treviso, Ital. bor. »* (Tab. CII, fig. 1. — Ex specim. orig. a cl. Sacc. benev. comm.).

Perithecia subgregaria, minuta, 100-120  $\mu$  diam., setulis brevibus, 20-30  $\approx$  4-5, atris, superne densiuscule praedita; asci 40-50  $\approx$  12-14; sporidia 22-26  $\approx$  3-3  $\frac{1}{2}$ .

**Acanthostigma pygmaeum** (S. et S.) Sacc. Syll. Pyr. II, p. 208. *Lasiosphaeria pygmaea* Sacc. et Spieg. Mich. I, p. 406, Fungi it. tab. 389.

*Hab. in culmis putrescentibus* Tritici « Conegliano lt. bor. » (**Tab. CII, fig. 2.**

— Specimina originalia jam exoleta inveni, et adumbrationem excerpti ex delineatione in Herb. Sacc. speciminibus original. allata).

Perithecia laxe gregaria,  $\frac{1}{12}$ - $\frac{1}{10}$  mm. d., setulis obtusiusculis, 50-70  $\approx$  5-6 laxiuscule vestita; asci 80-85  $\approx$  15-16; sporidia 50-60  $\approx$  4-4  $\frac{1}{2}$

An potius *Ophiobolus*?

### Species non visae vel e genere amovendae.

*Acanthostigma Sequoiae*, (Plowr.) Sacc. Non vidi. *A. pulchritum* (Peck.) Sacc. id. *A. erysiphoides* (Rehm) Sacc. id. *A. gracile* (Niessl) Sacc. ad *Ophiobolus* potius pertinet. *A. Berenice* (B. et C.) Sacc. Specim. orig. sterilia inveni sed certe ut mihi videatur non ad genus hoc pertinent. *A. helminthosporum* (Rehm) Sacc. Sec. specim. orig. est genus novum (*Ophiotrichia* Berl.) nam sporidiis filiformibus gaudet. *A. imperspicuum* Speg. non vidi *A. punctiforme* Bomm. Sacc. et Rouss. id. *A. Saccardioides* (E. et M.) Sacc. id. *A. nivale* (Str.) Sacc. id. *A. parasiticum* (Hart.) Sacc. id. *A. Hederae* Pat. id. *A. guaraniticum* Speg. In hypothallo speciminum originalium inveni *Perispodium* sporidiis fusoideis, 23-24  $\approx$  6, triseptatis, hyalinis. *A. longisetum* Karst. In specim. orig. nihil inveni nisi *Vermiculariam* quamdam, et *Leptospha. conoidea*. *A. occidentale*. In specim. orig. tantum inveni *Chaetomellam perforatam*. (In foliis *Cirsii discoloris*).

### **ENCHNOSPHEAERIA** Fuck. Symb. Myc. p. 147. Sacc. Syll. Pyr. II, p. 205.

Perithecia superficialia, carbonacea, subinde byssio atrâ, densâ insidentia. Asci cylindraceo clavati, octospori. Sporidia fusiformia, 2-pluriseptata.

**Enchnosphaeria Pinetorum** Fuck. Symb. Myc. 147, t. IV, fig. 2. Sacc. Syll. Pyr. II, p. 205. Rehm Ascom. n. 90. Brun. Contr. Fl. Myc. Ouest, p. 187. *Herpotrichia Pinet.* Winter Pilze II, p. 194. et 208. *Bertia quercti* Rehm Ascom. n. 43, Sacc. Syll. Pyr. I, p. 583. *Lasiosphaeria scabra* Auersw. in Fungi Eur. n. 1245, Sacc. Syll. I. c. p. 202. *Enchn. santonensis* Sacc. Mich. II, p. 66, Syll. Pyr. II, I. c. Brun. I. c. p. 188. *E. passicrinis* Sacc. Syll. I. c. p. 206.

*Hab. in foliis, ramis et ligno putridis in « Germania et Gallia » (**Tab. CII, fig. 3** — Ex specim. germanicis in Herb. Sacc.).*

Perithecia gregaria, dein superficialia,  $\frac{1}{2}$  et amplius mm. d., rugosa, ostiolo vix conspicuo, basi setosula; asci 120-130  $\approx$  12-15; sporidia 35-40  $\approx$  5, hyalina. An fungus immaturus?

Verisimiliter fungus hic magis evolutus, sporidiis coloratis et 5-septatis gaudebit. In speciminibus nonnullis, et in iis *E. passicrinis* quoque huic adscribenda, in Belgio a cl. Mouton lectis (Cfr. Herb. Sacc.), sporidia nonnulla luteo-fusca hic inde notavimus, sed pro senescentibus, ad interim, habuimus.

**Enchnosphaeria nigra** (Hartig) Berl. *Herpotrichia nigra* Hart., Hedw. 1888, p. 13. Bot. Centr. 1888, III, p. 187, Sacc. Suppl. tot. Syll. Pars I, p. 858. Rehm Ascom. n. 996. *Enchnosphaeria pinetorum* Sacc. Mich. II, p. 596, Syll.

Pyr. II, p. 205, p. p. Thuem. Myc. Un. n. 2255, *Herpotrichia mucilaginosa* Starb. et Grev. Bidr. Ascom. p. 8, t. I, fig. 5. Sacc. Suppl. Syll. I, p. 858. *Herpotrichia macrotricha* Sacc. I c. p. 213, *Sphaeria macrotricha* B. et Br. Brit. Fungi n. 619, t. 9, fig. 2.?

*Hab. in foliis Abietis excelsae, Juniperi communis J. nanae in « Germania, Norvegia et Gallia »* (**Tab. CIII, fig. 1.**) — Ex specim. orig. in Rehm Asc. I. c.).

Perithecia subiculo atro-brunneo (*Rhacodium Therryanum*), denso cincta,  $\frac{1}{3}$  mm. d.; asci 90-105  $\times$  12-14; sporidia 28-30  $\times$  6-7  $\frac{1}{2}$ . Si species haec cum *Enchn. pinet.* congruat, mihi dubium, sed videtur valde aliena, Cl. Winter specimina originalia *Ench. pinet.* investigavit, et ad hanc speciem retulit *Bertia querceti* Rehm, sed de speciminibus *Ench. pinet.* a cl. Thuemen editis (M. Un. I. c.) et ad *Enchn. nigram* haud dubio pertinentibus, quod non germanicis, nullam fecit mentionem, et scopulum hoc modo prudenter vitavit.

**Enchnosphaeria ? spinulosa** Speg. F. Puigg. n. 278. Sacc. Suppl. Syll. Pars I, p. 853.

*Hab. ad folia viva Sapindaceae cuiusdam in dumetis prope « Aphiyah Brasiliæ »* (**Tab. XCVII, fig. 2.**) — Ex specim. orig. a cl. Hariot benevole comm.).

Perithecia epipylla, sparsa, crusta grisea, lichenoidea insidentia, sursum setis crassis, paucis ornata; asci 70-80  $\times$  10-12; sporidia 32-36  $\times$  5. Aptius *Lichen. Contextus* perithecii radiato-cellulosus ut in *Microthyriaceis*.

### Species non examinatae vel e genere amovendae

*Enchnosph. Coulteri* (Peck.) Sacc. Non vidi. *Enchn. parietalis* (B. et C.) Sacc. In specim. orig. perithecia byssō densā cincta et sporidia distīncte bilocularia, fuligineo-olivacea, genus novum (*Didymotrichia* Berl.) designant ad quod etiam *Herpotrichia rhodostoma* et *H. rhodosticta* pertinent.

**HERPOTRICHIA** Fuck. Symb. Myc. p. 146. Sacc. Syll. Pyr. II, p. 211. Winter Pilze II, p. 206. Ell. et Ev. N. Am. Pyr. p. 157.

Perithecia carbonacea, globosa, undique pilis crispulis et repentibus obsita, typice vertice appланata, subglabra, discoloria, ostiolo minutissimo. Asci octospori. Sporidia pluriseptata.

**Herpotrichia chaetomoides** Karst. in Hedw. 1888, Sacc. Suppl. Syll. Pars I, pag. 859.

*Hab. in caulis aridis Epilobii angustifolii prope « Mustiala Fenniae »* (**Tab. CIII, fig. 2.**) — Ex specim. orig. a cl. Karsten et a cl. Hariot benevole communicatis).

Perithecia subgregaria, superficialia,  $\frac{1}{3}$  mm. d., setis longis, sinuosis, fuligineis dense obsita; asci 75-85  $\times$  8; sporidia 24-27  $\times$  3-4.

Sistit etiam *Chaetomella* sp. An status pycnidicus *Herpotrichiae*?

**Herpotrichia Schiedermayeriana** Fuck. Symb. Myc. App. II, p. 27, Sacc. Fungi It. t. 143, Mycoth. Ven. 161. Winter Die Pilze II, p. 207.

*Hab. in truncis ramisque putrescentibus* Sambuci nigrae prope « Kirchdorf in Austria superiori et in « *Sylva Montello* It. bor. » (**Tab. CIV, fig. 1.** — Ex specim. italicis a cl. Saccardo benevole communic.).

Perithecia gregaria, inferiori parte pilis ramosis, longis, repentibus dense obsita; asci 100-110 × 12-14; sporidia 32-35 × 6.

**Herpotrichia rhenana** Fuck. Symb. Myc. p. 146, tab. III, fig. 7, Fungi rhen. 952. Sacc. Syll. Pyr. II, p. 212. Winter Pilze II, p. 207. Ell. et Ev. N. Am. Pyr. p. 157.

*Hab. in stramine putrescente prope « Aepfelbach Germaniae »* (**Tab. CIV, fig. 2.** — Ex specim. orig. in Fuck. I, c. a cl. Briosi benevole comm.).

Perithecia sparsa vel gregaria, primo tecta dein libera,  $\frac{1}{3}$  et fere  $\frac{1}{2}$  mm. d., pilis longissimis, sinuosus, fuligineis, ramosis, dense tecta; asci 110-120 × 12-14, cylindracei; sporidia 24-28 × 5-6, monosticha, (saltem in specim. visis) primo hyalina biconoidea, dein luteo-brunnea, quadrilocularia.

**Herpotrichia xestothele** (B. et C.) Berl. *Sphaeria xestothele* B. et C. North Am. Fungi n. 896. *Lasiosphaeria xestothele* Sacc. Syll. Pyr. II, p. 194. Ell. et Ev. N. Am. Pyr. p. 146.

*Hab. in ramis Corni floridae in « Carolina inf. Am. bor. »* (**Tab. CV, fig. 1.** — Ex spec. orig. a cl. Cooke benev. comm.).

Perithecia gregaria,  $\frac{1}{2}$  mm. d., sursum areola nuda, caeterum rufo-hirsuta; asci 95-110 × 12-14; sporidia 18-24 × 5-6, fuscidula.

**Herpotrichia heterostoma** (Karst.) Sacc. Syll. Pyr. II, p. 213, Karst. Rev. Asc. Fenn. p. 50. *Lasiosphaeria heterostoma* Karst. Myc. Fenn. II, p. 102.

*Hab. ad lignum vetustum Pini in paroecia « Tammela Fenniae »* (**Tab. CV, fig. 2.** — Ex spec. orig. a cl. Karsten benevole comm.).

Perithecia aggregata, majuscula,  $\frac{1}{2}$  mm. d., pilis longitudine variis, acutis, rigidis obsita, apice tuberculo carneo praedita; asci 90-100 × 9-12; sporidia 30-34 × 4-6, luteo fusca.

Sporidiorum forma, subiculo etc. est genuina *Lasiosphaeria*, sed tuberculus carnosus ad *Herpotrichiam* dicit. Inter genera haec, species certe ambigua.

### Species non examinatae, dubiae vel e genere amovendae.

Herpotr. Rubi Fuck. Specim. orig. immatura inveni. An eadem ac. Herp. rhenana? H. rhodomphala (Berk.) Sacc. et H. rhodosticta sunt novi generis (*Didymotrichia* Berl.) typus. H. rhodospila (B. et C.) Sacc. Non vidi Herpotr. macrotricha (B. et Br.) Sacc. ut

videtur ad *Enchosph. nigram* pertinet. II. nigra Hartig est *Enchosph.* H. *callimorpha* (Auersw. Winter non vidi II. ferox W. id. H. *albidostoma* (Peck) Sacc. id. H. *mucilaginosa* St. et Grev. est *Enchosph. nigra* H. Molleriana Wint. Non vidi II. *calospora* W. id. II. *antarctica* Speg. id. H. *antarctica* (Speg.) Sacc. Suppl. Syll. P. I, p. 859. n. 3498 (non n. 2496). id. In opella spegazziniana species haec sub genere *Melomastia* militat et nullum (ut mihi videtur e diagnosi) praebet charactherem *Herpotrichiae*. Si ad hoc genus adscribenda certe nomen specificum mutandum erit, nam adest genuina *Herpotrich. antarctica* Speg. F. Fueg. n. 233.

**LASIOSPHAERIA** Ces. et De Not. Schema Sfer. It p. 55. Sacc. Syll. Pyr. II, p. 191. Winter Pilze II, p. 210 Karsten Rev. atque Syn. Pyren. Fenn. p. 50.

Perithecia superficialia vel matrici basi insculpta, plus minus villosula, hirta, strigosave, subiculo fibroso quandoque incidentia, ostiolo papillato, interdum obsoleto. Asci fusoideo clavati. Sporidia typice cylindracea, basi curvata, quandoque continua sed saepius pluriseptata, hyalina, rarius colorata. Species plerumque lignicolae, rarius corticolae. Genus typos varios complectens.

**Lasiosphaeria sorbina** (Nyl.) Karst. Myc. Fenn. II, p. 164, Rev. atque Syn. Ascom. Fenn. p. 51 (ut var. *L. sperm.*) Sacc. Syll. Pyr. II, p. 199. *Sphaeria sorbina* Nyl. in Flora 1862, p. 322.

*Hab. ad ramos Sorbi aucupariae prope «Helsingfors Fenniac» sub epidermide et circa stroma Valsae Sorbi diffusa.* (**Tab. CVI, fig. I.** — Ex specim. orig. a cl. Hariot, Musaci Parisiensis, benevole comm.).

Perithecia gregaria,  $\frac{1}{2}$  mm. d., peridermate secesso, superficialia, basi tantum pilis radiantibus, pallidis cincta; asci 120-140  $\times$  12-16; sporidia 32-34  $\times$  6-8.

**Lasiosphaeria sorbina** var. **radiata** (Fuck.) Sacc. Syll. Pyr. II, p. 200 (ut spec.). *Leptospora radiata* Fuck Symb. Myc. p. 143, Rehm Ascom. n. 191. Winter Pilze II, p. 218. Sacc. Syll. Pyr. II, p. 200.

*Hab. in ramis humifuscis, decorticatis, putridis Carpini in «Germania»* (**Tab. CVI fig. 2.** — Ex specim. Rehm.).

Perithecia gregaria,  $\frac{1}{2}$  mm. d. basi vix pilosa, sursum pulverulentia; asci 110-120  $\times$  12-15 subsessiles; sporidia 32-36  $\times$  7-8. Peritheciis fere glabris et sporidiis fere allantoideis a genuinis *Lasiosphaeriis* differt. Sporidiorum forma a *L. spermoides* non nimis recedens. A typo differt tantum peritheciis numquam tectis.

**Lasiosphaeria solaris** (C. et E.) Sacc. Syll. Pyr. II, p. 202. *Sphaeria solaris* C. et E. in Grev. V, p. 53, tab. 81, fig. 9.

*Hab. in ligno pineo «New Jersey Am. bor.»* (**Tab. CVII, fig. I.** — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia subsparsa,  $\frac{1}{3}$  et fere  $\frac{1}{2}$  mm. d., verrucosa; asci 85-95  $\times$  14-16; sporidia 18-22  $\times$  5-6; conidia 12-14  $\times$  5-6.

**Lasiosphaeria strigosa** (Alb. et Schw.) Sacc. Syll. Pyr. II, p. 201. Ell. et Ev.

N. Am. Pyr. p. 149 Bomm. et Rouss. Fl. p. 194. *Sphaeria strigosa* Alb. et Schw. Consp. p. 37, tab. V, fig. 7. *Leptospora strigosa* Fuck. Symb. p. 144. Fungi rhen. n. 948. Winter Pilze II, p. 216.

*Hab. in ligno Carpini et Pinorum in « Germania, Suecia, Belgio, Italia, Britannia et Am. bor. »* (**Tab. CVII, fig. 2.**) — Ex specim. in Fuck. l. c. a. cl. Prof. Briosi benevole comm.).

Perithecia gregaria, setis Sematiaceis, luteo-fuscis tecta, sursum calva,  $\frac{1}{2}$  mm. d.; asci 105-115  $\times$  12-15; sporidia 32-36  $\times$  5-6, hyalina.

**L. strigosa** var. **canescens** (Pers.). Karst. Myc. Fenn II, p. 162 Rev. Mon. Asc. Fenn. p. 50 (ut species) Sacc. Syll. Pyr. II, p. 193 Ell. et Ev. N. Am. Pyr. p. 148, (ut spec.) *Sphaeria canescens* Pers. Syn. Fung. p. 72. Fr. Syst. Myc. II, p. 448. Curr. Trans Linn. Soc. vol. XXII, p. 315 t. LVII, fig. 14

*Hab. in ligno vetusto Quercus, Fagi Pini, Platani etc. in « Succia, Britannia, Fennia, Gallia, Germania, California, Carolina »* (**Tab. CVII, fig. 3.**) — Ex specim. Notarisanis a cl. Pirotta benevole comm.).

Perithecia gregaria, setis luteo-fuscescentibus dense tecta, sursum calva,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 120-130  $\times$  10-12; sporidia 26-28  $\times$  5-7. Forma macrospora in Fennia lecta ad typum pertinet. Varietas haec a typo differt tantum sporidiis paulo minoribus.

**Lasiosphaeria spermoides** (Hoffm.) Ces. et De Not. Schem. p. 55. Sacc. Syll. Pyr. II, p. 199. Ell. et Ev. N. Am. Pyr. p. 148. Brun. Contr. Fl. Myc. Ouest. Pyr. p. 186 Bomm. et Rouss. Flor. p. 194. *Sphaeria spermoides* Hoffm. Veg. Cr. II, p. 12. Tab. III, fig. 3. *Hypoxyylon miliaceum* Bull. Champ. t. 444 fig. 3. *Sphaeria globularis* Bat. El. Cat. fig. 180. *Sphaeria granum* Fl. dan. Tab. 13, fig. 1 *Leptospora sperm.* Fuck. Symb. p. 143. Wint. Pilze II, p. 215,

*Hab. in truncis et lignis putrescentibus in fere tota « Europa » et « Am. bor. »* (**Tab. CVIII, fig. 1.**) — Ex spec. in Rehm Asc. n. 587, cum aliis multis e regionibus variis minutim comp.) (1).

Perithecia stipata, basi parum villosa,  $\frac{1}{3}$  mm. denique apice fissurata, ostiolo carentia; d., asci 140-160  $\times$  8-10; sporidia 18-22  $\times$  4. Subiculum adest villosum, laxe byssoidem.

**Lasiosphaeria stannea** (Fr.) Sacc. Syll. Pyr. II, p. 199. *Sphaeria spermoides* b. *stannea* Fries Elench. II, p. 93.

*Hab. ad ligna durissima prostrata, Quercus et Fagi in « Succia »* (**Tab. CVIII, fig. 2.**) — Ex specim. orig. e collectione beati Desmaz. in Musaeo Parisiensi servata et a cl. Hariot, benevole comm.).

Perithecia dense conferta, primo obtuto pro *Didymio* aut *Physaro* sessilibus habenda, ostiolo minuto, colore stanni ob pruinulam tenaciter adhaerentem,  $\frac{1}{2}$

(1) Specimina originalia, quae in collectione Musaei Parisiensis servantur, et quae mihi benevole misit cl. Hariot, quoque observavi.

mm. d., duriuscula, fragilia; asci 90-100  $\approx$  7-8; sporidia 14-16  $\approx$  5-6. Speciem hanc frustra in Winter (Die Pilze) invenire conatus sum, neque inter dubias.

**Lasiosphaeria sublanosa** (Cooke) Berl. *Sphaeria sublanosa* Cooke Grev. VII, p. 41. *Metasp. sublanosa* Sacc. Syll. Pyr. II, p. 165.

*Hab. in ramiis vetustis Andromedae* « New, Jersey Am. bor. (Tab. CIX, fig. 1. — Ex spec. orig. a cl. Cooke benevole comm.).

Perithecia gregaria, globoso-conoidea, rugosa, setis repentibus, sinuosis, parcis cineta,  $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  15-17; sporidia 30-34  $\approx$  6, tri-pluriguttata, hyalina.

**Lasiosphaeria Pseudo-Bombarda** (Mont.) Berl. Ic. Fung. fasc. I, p. 38. *Trematosph. Pseud. Bomb.* Sacc. Syll. Pyr. II, p. 121. *Sphaeria Ps. Bomb.* Mont. Syll. Crypt. n. 759, et Cent. II, n. 54, Ann. Sc. Nat. Bot. 2 XIV, p. 323, t. 19, fig. 5.

*Hab. ad corticem arborum in silvis* « Cayenna » (Tab. CIX fig. 2. — Ex specim. orig. a cl. Pirotta benevole commun.).

Perithecia caespitosa, stromate nigro crassiusculo inserta, divergentia,  $\frac{1}{3}$  mm. d.; asci 125-130  $\approx$  25-30 (pars sporif.); sporidia 50-55  $\approx$  10-12, semper (saltem in speciminibus examinatis) hyalina et continua. An senescendo pluri-septata, olivacco-fuliginea?

**Lasiosphaeria stuprea** Ell. et Ev. in Bull. Vash. Coll. 3, p. 4. North Am. Pyren. p. 150, tab. 19, fig. 5-9. Sacc. Suppl. Tot. Syll. Pars. I, p. 850.

*Hab. in ramis emortuis Tsugae Pattonianae* in « Monte Paddo, Washington Am. bor. » (Tab. CXIX, fig. 2. — Ex Ell. et Ev. I. c.).

Perithecia gregaria, circiter 1. mm. d., ostiolo crasse 4-gibboso, asci 170-200  $\approx$  18-20 (parte sporifera 120-150  $\mu$ . longa) sporidia 34-38  $\approx$  8-11.

**Lasiosphaeria breviseta** Karst. in Hedw. 1884, p. 57. Sacc. Suppl. Tot. Syll. Pars. I, p. 849.

*Hab. in ligno vetusto Padi? in* « Mustiala Fenniac » (Tab. CIX, fig. 3. — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia gregaria vel aggregata,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., parce breviterque setosa; asci 80-90  $\approx$  12-15; sporidia 28-34  $\approx$  3,5-4, hyalina, in caudam abrupte attenuata.

**Lasiosphaeria caudata** (Fuck.) Sacc. Syll. Pyr. II, p. 200. *Leptospora caudata* Fuck. Symb. p. 144 tab. III, fig. a. b. Winter Pilze II, p. 217.

*Hab. in ligno Betulae et Pinorum* in « Germania et Helvetia » (Tab. CX fig. 1. — Ex specim a cl. Morthier lectis et a spect. Direct. Musaei Berolinensis benevole comm.).

Perithecia sparsa vel gregaria,  $\frac{1}{2}$  mm. d., pilis brevibus laxe obsita; asci 100-110  $\approx$  10-12, (p. sporif.); sporidia 32-35  $\approx$  4-5, pallidissime lutescentia.

In specim. examin. inveni semper sporidia sere hyalina.

**Lasiosphaeria vilis** Karst. et Har. in Rev. Myc., 1870, n. 47 Sacc. Suppl. Syll. Pars. I, p. 852.

*Hab. ad squamas conorum* Pini silvestris « Mery sur Seine, Aube Galliae » (**Tab. CIX fig. 2.** — Ex specim. orig. a cl. Hariat benevole comm.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d., longiuscule setigera, bysso parentia; asci 125-140  $\approx$  12-15; sporidia 48-50  $\approx$  4.5. Species haud rite evoluta, matura verisimiliter sporidiis majoribus gaudens et tum *L. crinitae* propinquior.

**Lasiosphaeria crinita** (Pers.) Sacc. Syll. Pyr. II, p. 201. *Sphaeria crinita* Pers. Syn. p. 72. *Leptospora crinita* Fuck. Symb. myc. p. 144, Winter Pilze II, p. 218. *L. Romeana* Sacc. et Berl. Misc. Myc. II, p. 20, tab. X, fig. 19. Suppl. Syll. P. I, p. 850.

*Hab. ad ligna mollissima* Fagi Coryli etc. in « Suecia, Germania, Italia, Gallia, et Belgio » (**Tab. CXI fig. 1.** — Ex specim. in Libert F. Ard. n. 70 cum iis origin. *L. Romeanae* minutim comp.).

Perithecia subsparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d., longe piligera, globoso-conoidea; asci 160-170  $\approx$  16-18; sporidia 55-65  $\approx$  4.5, hyalina, continua. A *L. hispida* et *L. Rhacodium* differt sporidiis continuis, a *L. ovina* peritheciis atro-villosis. Varietatis *arenationis* specimina originalia examinavi et potius ad *L. hispidam* adscribenda mihi videntur.

**Lasiosphaeria crinita** var. **crustacea** Karst. Symb. ad Myc. Fenn. XXVI, p. 28, Sacc. Suppl. Syll. P. I, p. 851 (ut species).

*Hab. ad lignum putrescens* Betulae in paroecia « Tyrvis Fennia » (**Tab. CXI fig. 2.** — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; gregaria, in crustam fere connexa, rugosa, bysso dematiacæa, nigrâ inserta, parce piligera; asci 160-170  $\approx$  12-16; sporidia 55-60  $\approx$  4-6, hyalina.

A typo differt peritheciis gregariis profundius rugosis.

**Lasiosphaeria ovina** (Pers.) Ces. et De Not. Schema sfer. p. 229 Sacc. Syll. Pyr. II, p. 199. F. it. tab. 559. Ell. et Ev. N. Am. Pyr. p. 150. Brun. Contr. Fl. Myc. Ouest. Pyr. p. 187, Bomm. et Rouss. Fl. p. 194. *Sphaeria ovina* Pers. Syn. p. 41. *Sphaeria mucida* a. ß. Tode Fungi Meckl. II, p. 16. *Sphaeria lichenoides* Sow. Engl. Fungi t. 373, fig. 12. *Leptospora ovina* Fuck. Symb. Myc. p. 143, Winter Pilze II, p. 215.

*Hab. in lignis putrescentibus in fere tota* « Europa, Amer. bor. et Australia » (**Tab. CXII, fig. 1.** — Ex specim. italicis in Herb. Sacc.).

Perithecia subsparsa, vel gregaria,  $\frac{1}{5}$ - $\frac{1}{2}$  mm. d.; asci 150-170  $\approx$  12-16; sporidia 38-44  $\approx$  4-5, hyalina.

**Lasiosphaeria ovina** f. **Libertiana** Speg. et Roum. Rev. Myc. II, p. 22 et Fungi Sel. Gall. exsicc. n. 672 (ut sp.) *Sphaeria* spec. Lib. in Herb. cum icon. \*

*Hab. ad culmos putridos* Phalaridis arundinaceac prope « Malmedy Borus-

rhen ». (**Tab. CXII, fig. 2.** — Ex specim. orig. a beat. Roum. l. c. editis et in Herb. Sacc. contempt.).

Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci 180-200  $\approx$  12-15; sporidia 52-56  $\approx$  4-5, hyalina et continua (nec apice incrassata, saltem in spec. viso.).

**Lasiosphaeria sulphurella** Sacc. Mich. I, p. 440, Fungi It. tab. 438, Syll. Pyr. II, p. 202.

*Hab. in truncu decorticato* Robiniac « Padova lt. bor. » (**Tab. CXIII, fig. 1.** — Ex specim. orig. a cl. Sacc. benevole communic.).

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. d., bysso sulphureâ vestita, ostiolo nudo, nigro; asci 170-180  $\approx$  15-18; sporidia 56-60  $\approx$  4-6, hyalina.

Valde affinis *L. Libertanae*. Verisimiliter etiam species haec ut forma vel lusus *L. ovinae* habenda.

**Lasiosphaeria helicoma** (Pl. et Ph.) Sacc. Syll. Pyr. II, p. 192. *Sphaeria helicona* P. et P. in Grev. VI, p. 26, tav. 94, fig. 9 et Plowr. Fungi Brit. exsicc. n. 53.

*Hab. ad terram in scobe et frustulis ligneis* « Brandon Britanniac » (**Tab. CXIII, fig. 2.** — Ex specim. orig. in Plowr. Fungi Brit. exsicc. n. 53 in Herb. Sacc.).

Perithecia subsparsa, minuta,  $\frac{1}{5}$  mm. d.; asci 150-160  $\approx$  19-20; sporidia 65-70  $\approx$  5-6. Conidia helicoidea 30-33  $\mu$ . diam.

**Lasiosphaeria hispida** (Tode) Fuck. Symb. Myc. p. 147 t. III, fig. 31 Sacc. F. it. tab. 558, Syll. Pyr. II, p. 194. Winter Die Pilze II, p. 211. Ell. et Ev. N. Am. Pyr. p. 145. Brun. Fl. Myc. Ovest. Pyr. p. 186. Bomm. et Rouss. Flor. p. 194. *Sphaeria hispida* Tode Mekl. 2, p. 17. *Lasiosph. capensis* K. et C. Grev. 1880, p. 28, tab. 137, fig. 27. Sacc. Syll. l. c. p. 195.

*Hab. in truncis putridis in* « Germania, Suecia, Belgio, Italia Gallia, et Am. » (**Tab. CXIV, fig. 1.** — Ex specim. Therryanis in Thuem. M. Un. 1745. cum iis orig. *L. capensis* minutim comp.).

Perithecia dense gregaria,  $\frac{1}{2}$  mm. d.; asci 160-170  $\approx$  16-18; sporidia 65-75  $\approx$  6-8, fusco umbrina (diu hyalina). Conidia non vidi. Perithecia sunt pilis longis, mollibus cincta, non brevibus rariis ut in nonnullis locis expositur.

*Lasiosphaeria crinita* var. *arenationis* (*Sphaeria crin.* var. *aren.* Desm. in Fr. El. Fung. II, p. 92) secundum specimina originalia a cl. Hariot benevole missa, potius huic spectat, et vix varietas est habenda. Perithecia sunt pilis longis, sinuosis, fuligineis obsessa; asci et sporidia quoque ut in *Las. hispida*, hoc est, asci 160-170  $\approx$  16-18; sporidia 65-75  $\approx$  6-8, fusco-umbrina, 6-8 septata.

**Lasiosphaeria Rhacodium** (Pers.) Ces. et De Not. Sch. sfer. p. 225, Sacc. Syll. Pyr. II, p. 195. Winter Die Pilze II, p. 211. Ell. et Ev. N. Am. Pyr. p. 144. *Sphaeria Rhacod.* Pers. Syn. Fung. p. 74, Fries Syst. myc. II, p. 449, Curr. in Trans. Linn. Soc. XXII, p. 315, t. LVII, fig. 15.

*Hab. in ligno putri in fere tota* « Europa, Carolina et Argentina » (**Tab.**

**CXIV, fig. 2.** — Ex spec. romanis in Herb. Sacc. cum multis e variis regionibus comparatis).

Perithecia dense acervata vix setigera, byssso densâ tecta,  $\frac{1}{2}$  mm. d.; asci 160-175  $\approx$  14-17; sporidia 55-60  $\approx$  4-6, senescendo fuscidula. A *L. hispida* tantum differt sporidiis etiam maturitate hyalinis; an satis?

**Lasiosphaeria Rhacodium** var. **hirsuta** (Fries) Ces. et De Not. Schema Sfer. it. p. 55. Sacc. Syll. Pyr. II, p. 191. Winter Die Pilze II, p. 210 Ell. et Ev. N. Am. Pyr. p. 144. Bomm. et Rouss. Florule, p. 194, (omnes ut species) *Sphaeria hirsuta* Fr. Syst. M. II, p. 449.

*Hab. in ligno putri in fere tota « Europa et America boreali »* (**Tab. CXV**)

**fig. 1.** — Ex specim. italicis in Herb. Sacc.).

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 150-160  $\approx$  12-15; sporidia 55-65  $\approx$  6-7. A typo vix differt peritheciis setis rigidis ornatis, pro subiculo denso tomentoso in typo præsente.

**Lasiosphaeria immersa** Karst. Myc. Fenn. II, p. 163, Rev. Mon. Asc. Fenn. p. 51 Sacc. Syll. II, p. 203.

*Hab. in ligno mucido mollissimo Betulae « Mustiala Fenniae »* (**Tab. CXV**)

**fig. 2.** — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia gregaria vel subsparsa, ligno semimmersa,  $\frac{1}{2}$  mm. d.; ostiolo crasso fere lophiostomaceo praedita, glabra; asci 165-175  $\approx$  16-18; sporidia 55-60  $\approx$  5-6, (sine appendic.) primo continua, hyalina, dein plasmate 7-9 partito, pallide viriscenti-flaveola.

**Lasiosphaeria actinodes** (B. et C.) Sacc. Syll. Pyr. II, p. 198. *Sphaeria actinodes* B. et C. Cub. Fungi n. 844. Wright Fungi Cub. n. 844.

*Hab. in Hypoxylo quodam orbiculari parasitica « Cuba »* (**Tab. CXVI, fig. 1.**)

— Ex specim. orig. a cl. Cooke benevole comm. cum Wrightianis I. c. comparatis).

Perithecia globoso-ovoidea,  $\frac{1}{4}$  mm. d., dense piligera; asci jam resorpti; sporidia 65-70  $\approx$  5-6, hyalino-fuscidula, senescentia.

**Lasiosphaeria? muscicola** De Not. MS. Sacc. Syll. Pyr. II, p. 196.

*Hab. in caulis foliisque emortuis Muscorum (Brachythecii) in « Alpe Zerbrû It. bor. »* (**Tab. CXVI fig. 2.** — Ex specim. orig. a cl. Pirotta benevole comm.).

Perithecia sparsa,  $\frac{1}{2}$  mm. d., pubescentia dematiacea, fuliginosa tecta; asci... non visi; sporidia 38-40  $\approx$  6-7, luteo-rufis. Si inter genuinas *Lasiosphaerias* adscribenda sit, mihi valde dubium, nam alios non vidi.

**Lasiosphaeria Caput-Medusae** (Sacc. et Sp.) Berl. *Enchiosphaeria Caput-Medusae* Sacc. et Spec. Mich. I, p. 405, Fungi it. tab. 395, Syll. Pyr. II, p. 206.

*Hab. in ramulis putrescentibus Catalpae syringifoliae « Conegliano It. bor. ».*

**(Tab. CXVI, fig. 3.** — Ex specim. orig. a cl. Sacc. benevole comm.).

Perithecia sparsa,  $\frac{1}{4}$  mm. d., setulis divergentibus, rigidis undique tecta; asci 80-90  $\approx$  7-8; sporidia 18-22  $\approx$  3-4.

Verisimiliter fungus immaturus.

**Lasiosphaeria caesariata** (C. et B.) Sacc. Syll. Pyr. II, p. 192. Ell. et Ev. N. Am. Pyr. p. 146. *Sphaeria caesariata* C. et Peck 29 Rep. p. 60.

*Hab. in ligno dejecto* « Portville Am. bor. » (**Tab. CXVII, fig. 1.** — Ex specim. orig. a cl. Cooke benev. communic.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 120-130  $\approx$  12-14; sporidia 30-40  $\approx$  6-7, diu pseudo-quinquesepata, 30-35  $\mu$ . longa, dein 7-septata usque 40  $\mu$ . longa, pallidissime fuscidula, loculis extimis hyalinis. Vix *Lasiosphaeria*. Perithecia setulis crassis, fuligineis, sere torulosis, brevibus obsita.

**Lasiosphaeria hemipsila** (B. et C.) Sacc. Syll. Pyr. II, p. 108. *Sphaeria hemipsila* B. et C. Fungi of. Ceyl. n. 1098.

*Hab. in truncis* « Paradeniya, Ceylon ». (**Tab. CXVII, fig. 2.** — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 150-160  $\approx$  16-20; sporidia 48-52  $\approx$  6-8, subinde loculo uno vel altero inflatulo (an senescentia?) 5-septata (non 3 ut in B. et C. II. cc.) loculis extimis, minutis, hyalinis, caeteris rufo-fuligineis.

**Lasiosphaeria Pezizula** (B. et C.) Sacc. Syll. Pyr. II, p. 195. *Sphaeria Pezizula* B. et C. North Am. Fungi n. 890. Ellis N. Am. Fungi n. 696. *Herpotrichia Peziz.* Ell. et Ev. N. Am. Pyr. p. 160.

*Hab. in truncis in* « Carolina et New Jersey Am. bor. » (**Tab. CXVIII, fig. 1.** — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia byssio atrâ densâ insidentia, glabra, dein cupulata,  $\frac{1}{3}$  mm. d.; asci 135-145  $\approx$  20-25; sporidia 50-56  $\approx$  7-9.

*Sphaeria Pezizula* in Cooke F. Brit. exsicc. n. 196 (saltem spec. exicc. quae examinavi) longe distat.

**Lasiosphaeria Keithii** (B. et C.) Berl. *Sphaeria Keithii* B. et Br. Brit. Fungi n. 1626, tab. XI, fig. 8, et in Grev. n. 34. *Herpotrichia Keithii* Sacc. Syll. Pyr. II, p. 212.

*Hab. in chorda putri in Horto botanico* « Glasnevin » *prope* « Dublin » (**Tab. CXVIII, fig. 2.** — Ex specim. orig. (?) a cl. Cooke benevole comm.).

Perithecia sparsa,  $\frac{1}{2}$  mm. d., basi pilis ramosis, longiusculis, parcis cincta; asci 80-90  $\approx$  12-14 (p. sporif.); sporidia 30-32  $\approx$  5-6, lutea.

Specim. visa non certe in chorda sed potius in stramine evoluta. Inter *Lasiosphaeriam* et *Herpotrichiam* ambigua. Ob sporidia ad hanc, ob perithecia ad illam pertineret.

**Lasiosphaeria larvispora** Cooke et Mass. in Grev. XIX, p. 83. Sacc. Suppl. I Syll. p. 851.

*Hab. in cortice «Macedon Victoria Australiae» (Tab. CXIX, fig. I. — Ex spec. orig. a cl. Cooke benevolè comm.).*

Perithecia laxe gregaria, tomento sulphureo, floccoso-farinoso tecta,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; ascii 300-320  $\times$  22-24; sporidia 160-185  $\times$  9-11.

Species perpulchra!

### Species non examinatae vel excludendae

*Lasiosphaeria Britzelmayri* Sacc. Non vidi. *Las. subambigua*, (Cooke) Sacc. id. *Las. viridicoma* (C. et P.) Sacc. id. *Las. xestothele* (B. et C.) Sacc. est *Herpotrichia*. *Las. orthotricha* (B. et C.) Sacc. est *Helminthosporium caespitulis* hic inde acervulatis, gregariis et perithecia simulantibus, ex hyphis longis indivisis, setiformibus compositis. *Lasiosph. terruginea* Fuck. sec. Wint. est *Melanomma* *Las. Fuckelii* Sacc. non vidi. *Las. paucipilis* (Cooke) Sacc. Non vidi. *Las. mutabilis* (Pers.) Fuck. Sec. Wint. est *Herpotr. Specimina* in Rab. F. Eur. n. 631 edita, et a cl. Beccari prope Pisa lecta, non ad genus hoc, nec ad *Herpotrich.* pertinent, potius ad *Zignoell.* sed immatura revelantur. *Las. Stipae* Fabr. Non vidi. *Las. acanthigera* (B. et Br.) Sacc. Sec. spec. orig. est *Sordaria*, nam peritheciis pilosis et sporidiis fuligineis, ovoideis, in caudam hyalinam productis gaudet. *Las. hispidula* Sacc. est *Acanthostigma*. *Las. felina* (Fuck.) Sacc. Non vidi. *Las. erinacea* (Cr.) Sacc. id. mihi dubia. *Las. Sphagnorum* (Cr.) Sacc. id. *Las. cirrhostoma* (B. et Br.) Sacc. Specim. orig. sterilia inveni. Perithecia sunt collapsa, hirte setigera et ut videtur non speciei huius generis pertinent. *Las. Janus* (B. et Br.) Sacc. non vidi. *Las. scabra* (Curr.) Auersw. est *Euchnosph. Pinetor*. *Las. Montis-Caballi* Speg. Non vidi. *L. calva* (Tode) Sacc. non vidi; mihi dubia. *Las. biformis* (Pers.) Sacc. mihi dubia, Sec. Sacc. est *Euchnosphaer* L. *nitrosa* (Wallr.) Sacc. mihi valde dubia. *L. acinosa* (Bat.) Sacc. id. *Las. chloronema* (B. et Br.) Sacc. Specim. orig. haud rite evoluta. Species, ut mihi videtur, expellenda. *Las. tephrotricha* (Fr.) Sacc. Mihi valde dubia, verisimiliter expellenda. *Las. llavescens* (Fr.) Sacc. id. Verisimiliter eadem ac *L. strigosa* *Las. depilata* (Fr.) Sacc. mihi valde dubia, et potius expellenda. *Las. Russelii* (B. et C.) Sacc. est *Limerospor. Collinsii*. *Lasiosph. papilionacea* (B. et C.) Sacc. mihi dubia. *Las. trichiacea*. Sec. specim. orig. est *Chaetomium* ascis elapsis et sporidiis sphaeroideis, raris,  $8 \mu$  diam., fuligineis. *L. elegans* Mont. Non vidi. *L. rhynchospora* Mont. id. *L. subcaudata* Mont. id. *L. subvelutina* E. et E. est *Acanth. decastylum*. *L. annulata* Karst. Non vidi. *L. intricata* (Peck) Sacc. id. *L. Sphagni* Del. id. *L. emergens* (Schw.) Cooke id. *L. cladosporia* (Schw.) Cooke et *L. setosa* (Schw.) Cooke incertae videntur.

**BOMBARDIA** Fr. Summa Veg. Scand. p. 389 (in nota) Sacc. Syll. Pyr. Vol. I, p. 277. Winter Pilze II, p. 235. Bomm. et Rouss. Florule p. 203. Ellis et Ev. North Am. Pyren. p. 176.

Perithecia superficialia, plus minusve verticaliter elongata, superficialia, maiuscula. Ascii octospori. Sporidia diu vermicularia, hyalina, tandem ovoidea,

fusca inferne in caudam cylindricam, hyalinam, basi saepe ad instar sporidiorum *Lasiosphaeriarum* curvatam desinentia. Ob sporidiorum forma cum nonnullis *Roselliniis* uno latere et *Lasiosphaeriis* alio latere congruit.

*Bombardia bertiodes* Cer. (Cfr. Sacc. Syll. I. c. p. 278) vix est huius generis.

**Bombardia ambigua** (Sacc.) Wint. Pilze II, p. 236. *Lasiosphaeria ambigua* Sacc. Mich. I, p. 46 F. it. t. 218, Syll. Pyr. II, p. 197.

*Hab. in ligno quercino in sylva « Montello » et in ligno fagineo in sylva « Cansiglio Ital. bor. »* (Tab. CXX, fig. I. — Ex spec. orig. a cl. Sacc. benevole communic.).

Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci 155-165  $\times$  14-17; sporidia 55-70  $\times$  5-6, parte incrassata 20-22  $\times$  12-14 (non 7-8 ut in Syll. et in Wint.).

**Bombardia fasciculata** Fries Summa Veg. Scand. p. 389. Winter in Hedw. 1874, p. 56. Sacc. Syll. Pyr. Vol. I, p. 277. Bomm. et Rouss. Flor. p. 203. Ell. et Ev. N. Am. Pyr. p. 176. *Sphaeria Bombarda* Batsch Elench. Cont. I, 271 fig. 181. *Bertia Bombarda* Ces. et De Not. Schema p. 51.

*Hab. in ligno fagineo, salicino, betulino, carpinico etc., praecipue in discis caescis in tota fere « Europa et Amer. bor. »* (Tab. CXX, fig. I. — Ex specim. italicis in Herb. meo).

Perithecia fasciculata, superficialia, verticaliter evoluta, subcylindracea, vel longe ovoidea, 1-1  $\frac{1}{2}$  mm. alta, coriacea; asci longe stipitati 120-140  $\times$  9-12, (p. spor.); sporidia tota 40-50  $\mu$ . longa, dein parte ovoidea 13-15  $\times$  7-8, et cauda 24-28  $\times$  4.

### CALOSPORA Sacc. Syll. Pyr. II, p. 231 (nec Nits.).

Perithecia stromate valsoideo immersa, accervulata. Asci octospori. Sporidia bi-pluriseptata, mutica vel appendiculata.

**Ca'ospora aculeans** (Schw.). Sacc. Syll. Pyr. II, p. 233. *Sphaeria aculeans* Schw. Syn. Am. bor. n. 1395. Cooke Vals U. St. p. 119 *Sphaeria rufescens* Schw. Syn. Am. bor. n. 1395. *Cryptospora acul.* E. et Ev. N. Am. Pyr. p. 535.

*Hab. passim in truncis ramisque Rhois typhinae « Carolina, Georgia Massachusetts Am. bor. »* (Tab. CXXI, fig. I. — Ex spec. orig. in Herb. beati Schw. a cl. Cooke benevole communicatis).

Perithecia stromate fuscescente immersa, ostiolis, e disco protuberantibus, ornata; asci 50-55  $\times$  9-11; sporidia 15-17  $\times$  4, saepe uniseptata. Inter *Diaporthem* et *Calosporam*, sporidiis saepe uniseptatis, ludibunda.

**Calospora rhoina** (C. et Ell.) Sacc. Syll. Pyr. II, 234 *Diatrype rhoina* C. et Ell. Grev. VII, p. 8. North Am. Pyr. p. 424.

*Hab. in truncis Rhois venenatae « New Jersey Am. bor. »* (Tab. CXXI, fig. 2. Ex specim. orig. a clariss. Cooke et Ellis benevole comm.).

Perithecia in stromate conoideo, vario, peridermio tecto, maiusculo immersa, ostiolis longiusculis, rigidis exertis ornata, ligno immersa; asci 55-70  $\approx$  9-11; sporidia 32-36  $\approx$  3-4 (et usque 40  $\mu$ . longa). Etiam Chlori-Joduri-Zynci ope, raro 3-5 pseudoseptata. An potius inter *Diaporthes*?

**Calospora Platanoidis** (Pers.) Niessl in Hedw. XIV, p. 130 Sacc. Syll. Pyr. II, p. 231. *Sphaeria platanoides* Pers. Syn. p. 45 *Sphaeria stilbostoma* var.  $\gamma$ . Fries Syst. II, p. 404. *Valsa Innesii* Curr. in Trans. Linn. Soc. Lond. XXII, p. 281, tab. 48, fig. 116 *Diaporthe Innesii* Fuck. Symb. Myc. p. 204 *Calospora Innesii* Sacc. Syll. Pyr. II, p. 231, *Valsa Platanoidis* Cooke Handb. p. 837, *Pseudovalsa platanoides* Winter Pilze II, p. 790.

*Hab. ad ramos emortuos Aceris Pseudoplatani, et Ac. platanoidis in « Britannia, Gallia, Germania et Hollandia »* (**Tab. CXXI fig. 3.** — Ex specim. Niesseano in Herb. Sacc.).

Perithecia corticola, circinantia, 4-12 in quoque stromate, globosa vel parum compressa; asci 75-90  $\approx$  14-16; sporidia 25-28  $\approx$  6-8.

**Calospora longipes** (Tul.) Berl. *Melanconis longipes* Tul. Sel. Fung. Carp. II, p. 139. *Sphaeria quercina* B. et Br. Brit. Fungi n. 839, Currey in Trans. Linn. t. XXII p. 272. *Sphaeria arcuata* Curr. l. c. p. 281. *Pseudovalsa longipes* Sacc. Syll. II, p. 136, Winter Pilze II, p. 787.

*Hab. in ramis deiectis. Quercus sessiflorae in « Gallia, Britannia, Germania, Belgio, Italia ».* (**Tab. CXXII fig. I.** — Ex specim. orig. a cl. Hariot Musaei Parisiensis benevole comm.).

Perithecia in acervulos valsiformes, conicos, erumpentes collecta; asci 140-150  $\approx$  16-18; sporidia 58-65  $\approx$  8-10 hyalina.

### Species non examinatae vel e genere excludendae

*Calosp. capsularis* (Pers.) Sacc. Non vidi mihi dubia. *C. Zoppii* (Kunze) Sacc. Est *Diaporthe* *C. tubulosa* (B. et C.) Sacc. est *Pseudovalsa tubulosa* *C. pensylvanica* (B. et C.) Sacc.; specimina orig. sterilia. *C. secedens* (M. et Fr.) Sacc. Non vidi. *C. Ulicis* (West.) Sacc. Ex specim. orig. est genuina *Diatrype*, nam sporidia sunt allantoidea, 10-12  $\approx$  2-3, biguttata, luteo-viridula. *C. gemmata* (B. et C.) Sacc. Non vidi. *C. undulata* (B. et Br.) Sacc. Ex specim. orig. est *Diatrype*. *C. inconspicua* (C. et Ell.) Sacc. Specim. orig. sterilia sed certe non ad *Calosp. spectantia*. *C. minuta* Bomm. et Röuss. Non vidi. *C. alnicola* Cooke et Massé est *Massariella* *C. arausiaca* (Fabr.) Sacc. Non vidi.

**MASSARINA** Sacc. Syll. Pyr. II, p. 153. *Massaria* De Not. aliorumque p. p. Perithecia et asci ut in *Massaria* Sporidia pluriseptata, hyalina.

**Massarina microspora** Pass. Diagn. Funghi nuovi V, nota, n. 14.

*Hab. in ramis emortuis Pini silvestris* «Collecchio prope Parma It. bor.» (Tab. CXXII fig. 2. — Ex specim. orig. a cl. Passerini benevole comm.).

Perithecia subcutanea sparsa, vel subgregaria, asci 60-65 = 10; sporidia 12-14 = 3,5-4.

**Massarina micacea** (Kunze) Sacc. Suppl. Tot. Syll. Pars. I, p. 825 *Massaria micacea* Kunze Fungi sel. n. 95. Winter Pilze II, p. 542.

*Hab. in ramis emortuis Tiliae platyphyllae* in «Germania» (Tab. CXXII fig. 3. — Ex specim. orig. ex Herb. Winterian. a cl. Urban Musaci Berolinensis benevole comm.).

Perithecia gregaria 300  $\mu$ . d. nucleo albo farcta; asci 60-70 = 12-14; sporidia 20-24 = 4-6, sine muco, diu biconoidea, 1-septata dein plasmate 4-partito.

**Massarina microcarpa** (Fuck.) Sacc. Syll. Pyr. II, p. 144, *Massaria microcarpa* Fuck. Symb. Myc. p. 144, tab. VI, fig. 37. Winter Pilze II, p. 541. *Massaria Coryli* Karst. Symb. Myc. Fenn VI, p. 33. *Massarina Coryli* Sacc. Syll. I. c. p. 154.

*Hab. in ramis siccis corticatis*, Carpini Betuli in «Germania» (Tab. CXXIII fig. 1. — Ex specim. a cl. Winter lectis et a cl. Alrban spect Directionis Musei Berolinensis missis).

Perithecia sparsa vel acervata,  $\frac{1}{4}$  mm. d.; asci 80-90 = 12-16; sporidia 22-24 = 5-6.

A *Metasphaeria saepincola* aegre distinguenda.

**Massarina polymorpha** (Rehm) Sacc. Syll. Pyr. II, p. 155, *Massaria polymorpha* Rehm Ascom. Diagn. n. 242, Winter Pilze II, p. 541.

*Hab. ad ramos siccis Rosarum infra montem* «Retyezat in alpibus transylvanicis» (Tab. CXXIII fig. 2. — Ex specim. orig. in Rehm Ascom. I. c.).

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d., tecta, molliuscula, membranacea, epidermide nigrescente cincta; asci 85-95 = 10-12; sporidia 18-20 = 4-5.

Potius var. *Metasphaeriae saepincolae* cui valde affinis.

**Massarina alnicola** (Cooke et Mass.) Berl. *Calospora alnicola* Cooke et Mass. in Grev. XVI, p. 47. Sacc. Suppl. Tot. Syll. I, p. 872.

*Hab. in ramulis Alni autumnalis emortuis* in «Horto Kewensi Britanniae» (Tab. CXXIII fig. 3. — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia sparsa vel subinde 1-3 acervulata, numquam stromate immersa, peridermio tecta eique soluto adhaerentia, cupuliformia, fere  $\frac{1}{2}$  mm. d.; asci 65-70 = 15-18; sporidia 20-22 = 5-6 muco destituta.

Perithecia *Ditopellae*, asci et sporidia *Calosporae*.

**Massarina penicillata** Sacc. Syll. Pyr. II, p. 156. *Massaria penicillata* Sacc. Mich. I, p. 404, Fungi It. tab. 408.

*Hab. in ramlis corticatis Cytisi nigrisantis in silva* «Montello Ital. bor.» (Tab. CXXIII fig. 4. — Ex specim. orig. a cl. Sacc. benevole comm.).

Perithecia laxe gregaria, subcutanea,  $\frac{1}{3}$  mm. d., apice setulis septatis 50  $\times$  3 ornata; asci 90  $\times$  15; sporidia 20  $\times$  8.

**Massarina Corni** (Fuck.) Sacc. Syll. Pyr. II, p. 154 *Massaria Corni* Fuck. Symb. Myc. App. I, p. 303, Winter Pilze II, p. 541. Rehm Ascom. n. 698.

*Hab. in ramis emortuis corticatis* Corni sanguineae in « Germania ». (Tab. CXXIV, fig. 1. — Ex spec. Winterianis a spect. Directione Musaei berolin. benevole comm.).

Perithecia gregaria, tecta, nucleo albo farcta, minuta,  $\frac{1}{4}$  mm. d.; asci 95-105  $\times$  18-20; sporidia 32-34  $\times$  10-12.

**Massarina eburnea** (Tul.) Sacc. Syll. Pyr. II, pag. 153. *Massaria eburnea* Tul. Sel. Fung. Carp. II, p. 239, tab. XXV, fig. 5-9. Fuck. Symb. Myc. p. 154, tab. VI, fig. 8. Rehm Asc. n. 697. Winter Pilze II, p. 540. *Sphaeria Pupula* var. *minor* Desm. Pl. Crypt. Edit. II, n. 1764.

*Hab. in ramis Fagi silvaticae, raro Betulae, in « Gallia, Germania, Italia et Britannia ».* Tab. CXXIV fig. 2. — Ex specim. in Rehm Asc. I. c. cum aliis e regionibus variis comparatis).

Perithecia saepe gregaria,  $\frac{1}{4}$  mm. d., tecta; asci 130-140  $\times$  14-17; sporidia 28-32  $\times$  8-10 (sine muco).

**Massarina eburnoides** Sacc. Syll. Pyr. II, p. 153. *Massaria eburnoides* Sacc. Mich. I, p. 41, Fungi it. tab. 145.

*Hab. in ramulis corticatis, emortuis Coryli Avellanae « Conegliano Ital. bor. ».* (Tab. CXXIV, fig. 3. — Ex specim. orig. a cl. Sacc. benevole comm.).

Perithecia sparsa, tecta,  $\frac{1}{3}$ - $\frac{1}{4}$  mm. d.; asci 120-130  $\times$  18-20; sporidia 30-32  $\times$  12-15.

**Massarina lunulata** (Tul.) Sacc. Syll. Pyr. II, p. 155. *Massaria lunulata* Tul. Sel. Fung. Carp. II, p. 241.

*Hab. in corticibus Fagi silvaticae et Aceris Pseudoplatani in « Alpibus Delphinatus Galliae ».* (Tab. CXXV, fig. 1. — Ex specim. orig. (in *Fago*) a cl. Hariot Musaei parisiensis benevole missis.).

Perithecia tecta, gregaria,  $\frac{3}{4}$  mm. d., coriacea, crassa; asci stipitati, 100-110  $\times$  18-20 p. sp., stipite 40-50  $\mu$ . longo; sporidia 28-32  $\times$  7-8.

Sporidiorum fabrica *M. Corni* valde appropinquat, sed ab ea peritheciorum natura longe recedit.

**Massarina hysteroides** (Ell. et Ever.) Berl. *Leptosphaeria hysteroides* Ell. et Ev. Bull. Was. Lab. Nat. Hist 1884, p. 4. North Am. Fungi n. 1658, et North Am. Pyrenom. p. 371. Sacc. Suppl. Syll. I, p. 782.

*Hab. in foliis emortuis Xerophylli tenacis in « Monte Paddo, Am. bor. ».* (Tab. CXXVI, fig. 1. — Ex specim. orig. in Ellis North Am. Fungi exsicc. I. c.).

Perithecia gregaria, diu epidermide nigricanti, demum longitudinaliter fissâ tecta,  $\frac{1}{4}$  mm. diam.; globoso-depressa, nucleo albo farcta; asci 95-105  $\times$  18-24; sporidia muco obvoluta, 25-27  $\times$  8-10 (sine muco) hyalina.

**Massarina Myricae** (Peck) Berl. *Metasphaeria Myricae* Peck in 38 Rep. St. Mus. p. 105, tab. 2, fig. 24-26. Sacc. Suppl. Tot. Syll. I, p. 84.

*Hab. in ramis emortuis Myricae* Gales « Caroga Amer. bor. ». (Tab. CXXVI, fig. 2. — Ex specim. orig. a cl. Peck benevole comm.).

Perithecia gregaria vel dense sparsa, late conoidea,  $\frac{1}{3}$ - $\frac{1}{2}$  mm, diam., intus alba, coriacea; asci 85-95  $\times$  14-18; sporidia 26-30  $\times$  7-8, primo biconoidea, dein pseudotrisectata, hyalina, muco obvoluta.

### Species excludendae

*Massarina Tiliae* (P. et P.) Sacc. Sec. specim. orig. ad *Massariellam Curreyi* pertinet. *Massarina Winteri* est *Metasphaeriae sepincolae* potius adscribenda.

**MELOMASTIA** Nits. et Fuck. Symb. Myc. App. I, p. 306. Sacc. Syll. Pyr. II, p. 213.

Perithecia globosa, papillata, carbonacea, initio tecta, mox cortice secedente nudata. Asci octospori. Sporidia oblonga, obtusa, bisepata.

Genus inter *Metasphaeriam* et *Zignoellam* locandum. A *Zignoella* differt peritheciis subinde clypeo stromatico tectis, a *Metasphaeria* vero etiam peritheciis demum liberis lignicolisque distinguenda.

**Melomastia Friesii** Nits. in Fuck. Symb. Myc. App. I, p. 306. Sacc. Syll. Pyr. II, p. 213. *Sphaeria mastoidea* Fries Syst. Myc. II, p. 463. *Sphaeria Lonicerae* Sow. Engl. Fungi tab. 393, fig. 6. *Sphaeria revelata* Berk. et Br. Not. Brit. Fungi n. 634, tab. 11, fig. 18. *Sphaeria fraxinicola* Curr. in Linn. Trans. tom. XXIV tab. XXV, fig. 34. *Sphaeria Opuli* Fuck. Symb. Myc. p. 115, tab. III, fig. 24. *Trematosphaeria mastoidea* Winter Pilze II, p. 274. *Leptosphaeria Emiliana* Fabre Ess. Spher. Vaucl.

*Hab. in ramis truncisque denique decorticatis Salicis, Fraxini, Pistaciae, Lonicerae, Viburni, Syringae Alni, Symphoricarpi, Iasmini, Artemisiae, Ligustris, Corni, Hederae, Sambuci, Eupatorii etc. in « Italia, Gallia, Germania, Graecia, Britannia, Belgio, Helvetia et Amer. bor. ».* (Tab. CXXV fig. 2. — Ex specim. ital. in Herb. Sacc.).

Perithecia sparsa, primo tecta dein emergentia, demum libera basique insculpta, vel ligno plus minusve infossa,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; subinde clypeo stromatico atro tecta et tum cum clypeo, 1 mm. diam., asci 120-140  $\times$  8-10; sporidia 15-18  $\times$  6-7.

### Species non examinata

*Mel. antarctica* Speg. F. Fung. n. 233. Sacc. Suppl. I, Syll. p. 859 n. 3498, (non n. 3496) sub *Herpotrichia*. A *Mel. Friesii* non nimis differt

**MELANOPS** Tul. em. Sacc. Syll. Pyr. II, p. 231. Stroma lentiforme, spermogonio proprio adnatum. Perithecia immersa. Ascii paraphysati, octospori. Sporidia oblonga, pluriseptata, hyalina.

Genus mihi dubium et numquam observatum.

**Melanops mirabilis** Fuck. Symb. Myc. p. 225. Sacc. Syll. Pyr. II, p. 231.

*Hab. in Cytispora pisiformi prope « Genevam ».*

Stroma lentiforme, applanatum, orbiculare, in *Cytisporae globulorum* vertice adnatum lineam latum, rugulosum, atrum; perithecia immersa, globosa, nucleo albo; ascii oblongi, ampli, octospori, 104  $\times$  14, paraphysati; sporidia oblonga, biseptata, hyalina, 28  $\times$  7.

**CERIOSPORELLA** Berl. nov. gen. Perithecia epidermide tecta papillata. Ascii clavati, octospori. Sporidia fusoides, subcymbiformia, pluriseptata, utrinque setigera hyalina.

Est *Ceriospora* sporidiis hyalinis.

**Ceriosporella Patouillardii** (Let.) Berl. *Ceriospora Patouillardii* Letendr. in Pat. Icon. anal. Fung. fasc. V., n; 497, p. 215. *Ceriospora Ulicis* Pat. in Rev. Myc. 1885, p. 153. Sacc. Suppl. tot. Syll. I, p. 845.

*Hab. in ramis emortuis Ulicis europaei « Grand-Quévilly prope Rouen Galliae ».* (Tab. CXXVII, fig. 1. — Ex Pat. I. c.).

Perithecia gregaria, superficialia vel epidermide tecta; ascii 136  $\times$  7-14; sporidia 30-36  $\times$  5-6 (excluso mucrone) hyalina, uniseptata.

Aff. *Ceriosporae Dubyi*. An demum sporidia sunt triseptata et colorata?

**Ceriosporella bicalcarata** (Ces.) Berl. *Sphaerella bicalcarata* Ces. in Hedw. 1872, p. 181, Erb. Critt. it. II Ser. n. 1167, Rab. Fungi Eur. n. 1561. *Ceriospora bicalcarata* Sacc. Syll. Pyr. II, p. 186.

*Hab. in petiolis exsiccatis Chamaeropis humilis in « Horto botanico Neapolitano et Pisano Italiae ».* (Tab. CXXVII, fig. 2. — Ex specim. orig. a cl. Pirotta benevole communicat.).

Perithecia tecta, seriatim aggregata, minuta,  $1/4$  mm. d., in forma neapolitana (Rab. I. c.) pseudostromate corticali atro-fuligineo, effuso tecta; in forma pisana (Erb. Critt. it. I. c.) stromate vix manifesto (saltem in specim. examin.); ascii 70-80  $\times$  12-14; sporidia 32-34  $\times$  6-7, utrinque setigera, medio pseudo-uniseptata, hyalina nubilosa (an demum 3-septata colorataque?) calcaribus 12-15  $\times$  1.

**Ceriosporella fuscescens** (Niessl) Berl. (Sacc. Syll. II, p. 185 sub *Ceriospora*) peritheciis in maculis fuscis vel fuscescentibus densissime stipatis, tectis; ascis clavatis sporidiisque fusoides vel lunulatis, utrinque acutis, medio septatis, non constrictis, 30-36  $\times$  7-8 (excl. mucronibus) hyalinis, valde affinis videtur *Ceriosp. bicalcaratae*, cuius ut var. haberri posset, si mihi suspicio non existaret *Ceriosporellas* potius formas immaturas esse. Si vero in hac specie,

in *C. bicalcarata* et in *C. Patouillardii* sporidia semper hyalina didymaque manerent, genus hoc totum inter *Hyalodidymas* censendum esset, et verisimiliter huic adscribenda esset etiam *Ceriospora Dubyi* Niessl, quae in Icone nostra XVIII sub figura secunda adumbratur.

**HYPOSPILA** Fr. Summ. Veg. Scand. p. 421. Sacc. Syll. Pyr. II, p. 189. Winter Pilze II, p. 564 Karst. Rev. Mon. Ascom. Fenn. p. 43 Brun. Flor. Myc. Ouest. p. 184 Briard Flor. p. 337 Bomm. et Rouss. Florul. p. 211 Ell. et Ev. North Am. Pyr. p. 412.

Perithecia parenchymate foliorum immersa, tenerima, clypeo stromatico phyllogeo, nigricante tecta, rostro laterali, subinde longiusculo, nonnisi sero epidermidem, puncti nigri instar, perforante. Ascii fusoideo-clavati, apara-physati, octospori. Sporidia uni-vel demum triseptata, hyalina.

Fungilli epidermide colore rufescente-fusco tinctâ bullatimque inflatâ tecti. Quoad vegetationem *Gnomoniis* cognati.

**Hypospila groenlandica** Rostr. F. p. 561. Sacc. Suppl. Syll. I. p. 849. *Hab. in foliis dejectis Salicis glaucae in « Groenlandia ».* (Tab. CXXVIII, fig. 1, folio excepto quod ad n. 2, sive *Hyp. Pustulam*, pertinet. — Ex specim. orig. a cl. Rostrup. benevole comm.).

Perithecia subsparsa, parenchymate folii immersa, utrinque epidermide bullatim inflatâ tecta; ascii 100-115 × 10-14; sporidia 48-55 × 4-6, hyalina, semper biseptata.

**Hypospila Pustula** (Pers.) Karst. Myc. Fenn. II, p. 127. Sacc. Syll. Pyr. II, p. 189. Winter Pilze II, p. 564. *Sphaeria Pustula* Pers. Syn. p. 91. *Phoma Pustula* Fries Syst. Myc. II, p. 547. *Sphaeria pleuronervia* De Not. Micr. it. Dec. IX, n. 9. *Isothea Pustula* Berk. Outl. Brit. Fungi p. 392. *Sphaeria oleipara* Sollm. Hedw. V, p. 65. *Gnomonia Pustula* Auersw. Myc. eur. V-VI, p. 21, tab. VIII fig. 117.

*Hab. in foliis dejectis Quercus pedunculatae in « Germania, Italia, Suecia, Fennia, Belgio, Britannia, Hungaria et America ».* (Tab. CXXVIII, fig. 2. — Ex specim. a cl. Linhart in *Fungis hungaricis* n. 467 editis).

Perithecia sparsa, parenchymate folii immersa, utrinque epidermide bullatim inflatâ et plerumque colore rufescenti-fusco tincta tecta, depresso-sphaeroidea, latere in rostrum nigrum breviter conoideum acuminata; ascii 65-80 × 10-12; sporidia 20-22 × 4-5, diu uniseptata, dein triseptata, hyalina.

**Hypospila Rehmii** Sacc. Syll. Pyr. II, p. 189. *Sphaerella carpinea* Rehm Ascom. Exsic. n. 496. *Agriospora carpinea* Rehm Asc. Diagn. n. 496 (nec *Sphaeria carpinea* Fr. et Auct.).

*Hab. in foliis subputridis Carpini Betuli prope « Lohr a M. in Germania ».* (Tab. CXXIX fig. 1. — Ex specim. orig. in Rehm I. c.).

Perithecia dense sparsa, foliorum parenchymate immersa, epidermide

punctiformi-nigrefactâ tecta, globoso-depressa, dein collabascendo sursum concava, 140-150  $\mu$ . diam.; ascî 60-65  $\times$  10-13; sporidia 18-22  $\times$  4-5 hyalina.

Quoad sporidiorum fabricam, affinis *Hyposp. Pustulae*.

**Hypospila bifrons** (D. C.) Sacc. Syll. Pyr. II, p. 190. Winter Pilze II, p. 565. *Xyloma bifrons* De Cand. Fl. Fr. VI, p. 156. Fries Syst. Myc. II, p. 438. *Sphaeria bifrons* Kunze et Schm. Deutschl. Schwämme n. 204. *Hypospila quercina* f. *bifrons* Fries Summa Veg. Sc. p. 421. *Gnomonia bifrons* Auersw. Myc. Eur. V, VI, p. 20, tab. VIII, fig. 118. *Sphaeria circumvallata* Sow.

*Hab. ad folia exsiccata* Quercus pedunculatae etc. in « Gallia, Germania, Suecia, Belgio, Italia, Britannia ». (Tab. CXXIX, fig. 2. — Ex specim. orig. candolleanis a cl. Hariot Musaei parisiensis benevole communicatis).

Perithecia convexa, prominula, parenchymate saturate nigrificato immersa; ascî 50-60  $\times$  10-12, sporidia 11-13  $\times$  3-4, hyalina, ad basim uniseptata.

Species ab *Hypospila Pustula* toto coelo diversa, et parenchymate epidermideque foliorum stromatice nigrificatis mox dignoscenda. Maculae nigrae, nitide a nervulis angulatim delimitatae et stromata simulantes, in utraque pagina foliorum se ostendunt, et aream pallescentem saepe colunt. In specimenibus quoque Candolleanis, quibus adumbratio mea excerpta est, ascî et sporidia optime servata inveni !

**Hypospila immunda** (Fuck.) Sacc. Syll. Pyr. II. p. 190. Winter Pilze II, p. 565 *Sphaeria immunda* Fuck. Symb. Myc. p. 108, tab. III, fig. 10 a. b.

*Hab. in foliis adhuc pendulis* Quercus in « Germania, Britannia ». (Tab. CXXX, fig. 1. — Ex specim. orig. in Rehm Fungi rhen. n. 843 editis, et a cl. Prof. Briosi benevole comm.).

Perithecia minuta in utraque pagina foliorum crusta tenui, vix manifestâ tecta, globoso-depressa; ascî 58-68  $\times$  7-9; sporidia 10-12  $\times$  5, hyalina.

Cum *Gnomoniae* speciebus congruit.

**SPHAERULINA** Sacc. Mich. I, p. 399. Syll. Pyr. II, p. 186. Winter Pilze II p. 403 Brun. Flor. Myc. Ouest, p. 184. Briard Florule p. 315 Bomm. e Rouss. Flor. 211.

Perithecia tecta, globosa vel lenticulata, papillata. Ascî aparaphysati, saepe saccati, octospori. Sporidia cylindracea vel oblonga, transverse pluriseptata, hyalina.

Genus satis singulare, species alias sporidiis minutis, alias maximis complectens, recte in sectiones duas, « *microsporae* » et « *macrosporae* » dividendum.

A *Sphaerella* differt sporidiis pluriseptatis.

**Sphaerulina primulicola** (Wint.) Berl. *Sphaerella primulicola* Winter Hedw. 1880, p. 166. *Leptosphaeria primulaecola* Sacc. Syll. Pyr. II, p. 49. Winter Pilze II, p. 486.

*Hab. in foliis petiolisque Primulac latifoliae « Albula-Hospiz, Helvetiae ».* (Tab. CXXX, fig. 2. — Ex specim. orig. a cl. J. Urban Musaei berolinensis benevole comm.).

Perithecia in soros  $\frac{1}{2}$ -1 mm. diam. collecta, superficialia, 60-90  $\mu$  diam.: asci 50-55  $\times$  20-25, aparaphysati; sporidia bisepitata, 18-20  $\times$  10-12 (cum halone mucoso), hyalina, sera maturitate fuscidula. Certe inter *Hyalophragmias* censenda et a genere *Sphaerulina* haud rite separanda.

**Sphaerulina Potentillae** Rostrup Islands Svanpc p. 11. Sacc. Supp. Tot. Syll. I, p. 846.

*Hab. in caulis Potentillae maculatae in « Islandia ».* (Tab. CXXX, fig. 3. — Ex specim. orig. a cl. Setectore benevole comm.).

Perithecia punctiformia, gregaria, asci saccato-clavati 38-45  $\times$  22-25; sporidia 4-septata, 16-20  $\times$  6-7 hyalina.

**Sphaerulina intermixta** (Berk. et Br.) Sacc. Syll. Pyr. Vol. II, p. 187. Fungi It. tab. 347. Winter Pilze II, p. 404. *Sphaeria intermixta* Berk. et Br. Not. Brit. Fungi n. 639. Cooke Handb. p. 889. *Sphaerella intermixta* Auersw. Pyr. Herb. Heufl. p. 4. *Pringsheimia Rosarum* Schultzer Pflauz. Slav. p. 57. *Stigmatea seriata* Winter in Flora 1872, p. 544. *Sphaeria glomerulata* Fuck. Symb. p. 113. *Didymella glomerulata* Sacc. Syll. I, p. 546. *Sphaeria abbreviata* Cooke Handb. p. 793. *Leptosphaeria abbreviata* Sacc. Syll. Pyr. II, p. 26. (Cfr. Berlese Icones Fung. Fasc. II, p. 87).

*Hab. in ramis emortuis Rubi, Rosae et Corni in « Britannia, Germania, Italia, Banatu ».* (Tab. CXXXI, fig. 1. — Ex specim. italicis in Herb. Sacc.).

Perithecia gregaria, minuta 80-100  $\mu$ . diam.; asci eximie roseolati, 40-50  $\times$  12-15; sporidia 16-20  $\times$  5-6, tri-quinquesepitata subinde septulo longitudinali loculo uno altero divisa, pallidissime flavescentia.

Forma *Corni* (Cfr. Sacc. Syll. I, c. p. 188) a typo non satis differt.

In forma *constricta* cl. Starbäck. (Cfr. Starb. Ascom. vel p. 15, fig. 15, et Sacc. Suppl. Syll. p. 848), sporidia majora, nempe 20-30  $\times$  7, ad septum medium magis constricta subinde septulo longitudinali divisa describit, sed (ut ex adumbratione mea patet) characteres hi etiam in typo inveniuntur, et ex examine speciminum originalium varietatis *constrictae* a cl. Starbäck benevole communicatorum, nullum mihi patuit discrimin a forma typica. Neque matrix!

**Sphaerulina Ceanothi** (Cooke et Harkn.) Berl. *Sphaeria Ceanothi* Cooke et Harkn. in Grev. XIII, p. 19. *Leptosphaeria Ceanothi* Berl. et Vogl. Add. Syll. p. 136. Sacc. Suppl. Syll. I, p. 76.

*Hab. in ramlulis Ceanothi in « California ».* (Tab. CXXXI, fig. 2. — Ex specim. orig. a cl. Cooke benevole communic.).

Perithecia gregaria, minuta  $\frac{1}{5}\frac{1}{4}$  mm. d.; asci 45-55  $\times$  10-12 fasciculati

aparaphysati; sporidia 14-16  $\approx$  6-8, triseptata, raro septulo longitudinali, divisa (ut in *Sph.* intermixta cui affinis), hyalina vel vix lutescentia.

**Sphaerulina inquinans** Rehm Beitr. Ascom. in Hedwigia 1882, p. 122. Sacc. Syll. Pyr. II, p. 188. Winter Pilze II, p. 404.

*Hab. ad glumas lunci Hostii siccas prope « Kühai Tyroliae (altit. c. 6250 ped.) ».* (Tab. CXXXI, fig. 3. — Ex specim. orig. a cl. Rehm benevole communicatis).

Perithecia minutissima,  $1\frac{1}{8}$ - $1\frac{1}{9}$  mm. d., aggregata, in massam atram consociata; asci 40-50  $\approx$  10-14, nubilos-paraphysati, piriformes vel subcylindracei; sporidia di-tristicha, 16-18  $\approx$  5-6, hyalina.

Facie ascorum et paraphysibus diffluentibus potius inter *Metasphaerias* censenda, et *M. culmifidae* et *M. lacustri* affinis.

**Sphaerulina baccarum** Rehm Beitr. Ascom. in Hedwigia 1882, p. 122. Sacc. Syll. Pyr. II, p. 188. Winter Pilze II, p. 404.

*Hab. ad baccas putridas Juniperi nanae prope « Küthat alpium Tyroliae ».* (Tab. CXXXI, fig. 4. — Ex specim. orig. a cl. Rehm benevole communicatis).

Perithecia minutissima basi hyphis longis, flexuosis, teneris, fuscis cincta; asci 45-75  $\approx$  22-24; sporidia 22-25  $\approx$  6-8.

**Sphaerulina subglacialis** Rehm in Hedw. 1885, p. 243. Sacc. Suppl. Tot. Syll. I, p. 847.

*Hab. ad caules putridos Trifolii pallescentis ad glaciem aeternam montis « Ortler prope Sulden in Tyrolia ».* Tab. CXXXII, fig. I. — Ex specim. orig. a cl. Rehm benevole comm.).

Perithecia sparsa, globosa, in epidermide dealbata caulum primitus immersa, 0,2 mm. diam.; asci 60-70  $\approx$  30-38; sporidia 25-30  $\approx$  10-15, hyalina.

Affinis *Sphaerulinae baccarum*. In exemplari examinato frequentissime occurunt *Pyrenospora chrysospora*, *Pleospora rubicunda* et *Sphaerella quaedam*.

**Sphaerulina taxicola** (Peck.) Berl. *Sphaeria taxicola* Peck 24 Rep. p. 99. *Leptosphaeria taxicola* Sacc. Syll. Pyr. II, p. 85.

*Hab. in pagina superiore, quam omnino occupat, foliorum Taxi canadensis « Sandlake Am. bor. ».* (Tab. CXXXIV, fig. 2. — Ex spec. orig. a cl. Peck. benevole communicatis).

Perithecia minuta, gregaria,  $1\frac{1}{5}$ - $1\frac{1}{6}$  mm. d.; asci 45-55  $\approx$  10-12, aparaphysati, collecti; sporidia 15-17  $\approx$  5-6, hyalina.

**Sphaerulina Boudieriana** Sacc. et Malbr. Fungi Gall. Ser. V. n. 2167, Sacc. Suppl. Tot. Syll. I, p. 847.

*Hab. in foliis emortuis Scabiosae silvaticae « Brionne Galliae ».* (Tab. CXXXII, fig. 3. — Ex specim. orig. a cl. Saccardo benevole comm.).

Perithecia sparsa, epiphylla, rarius hypophylla, globoso-depressa 100-120  $\mu$ .

diam., primo epidermide velata dein subsuperficialia; asci 35-45  $\times$  10-12; sporidia 16-20  $\times$  4-4, hyalina.

Inter *Metaspheeriam* et *Sphaerulinam* fere ambigua. Dimensiones ascorum et sporidiorum, secundum cl. Saccardo, sunt paulo meis superiores (Cfr. Sacc. l. c.).

**Sphaerulina umbilicata** Sacc. et Malbr. Mich. II, p. 64, Syll. Pyr. II, p. 187.

*Hab. in caulis Succisae pratensis* « Rouen Galliae ». (Tab. CXXXIII, fig. 1. — Ex specim. orig. a cl. Saccardo benevole communicatis).

Perithecia sparsa 110,  $\mu$ . diam.; asci 45-55  $\times$  12-14, diu cohaerentes, apaphysati; sporidia 22-26  $\times$  3-4, hyalina.

**Sphaerulina myriadea** (D. C.) Sacc. Syll. Pyr. II, pag. 186. Winter Pilze II, p. 403. Ellis et Ev. North American Pyr. p. 312. *Sphaeria myriadea* D. C. Fl. Fr. VI, p. 148. *Spaerella myriad*. Rabh. Fungi eur. 149. Auersw. Myc. cur. fig. 9.

*Hab. in foliis dejectis Quercus et Fagi in fere tota* « Europa et Amer. bor. » (Tab. CXXXIII, fig. 2. — Ex specim. a cl. Vize in « Micro-fungi britannici » (n. 195) editis, cum aliis (et originalibus quoque) e variis regionibus comparatis).

Perithecia aggregata, minuta, 90-100  $\mu$ . d., prominula, epiphylla; asci cylindracei, 60-80  $\times$  8-10; sporidia saepe triseptata, 28-30  $\times$  3-4, hyalina vel dilutissime viridula.

**Sphaerulina myriadea** forma **serograpta** (D. et M.) Sacc. Syll. Pyr. II, p. 187 (ut species). *Sphaeria serograpta* Dur. et Mont. Fl. Alg. 537, *Sphaerella serograpta* Auersw. Myc. Eur. Pyr. p. 12, fig. 14.

*Hab. in foliis siccis Quercus cocciferae et Q. Ilicis in* « Algeria et Gallia australi » (Tab. CXXXIII, fig. 3. — Ex specim. orig. a cl. Castagne lectis et a cl. Hariot benevole comm.).

Perithecia hypophylla, minuta, 150-200  $\mu$ . d.; hinc inde aggregata, et epidermide stellatim fissâ emergentia; asci 70-80  $\times$  10-12; sporidia 32-34  $\times$  3-4, hyalina.

**Sphaerulina myriadea** forma **fraxinea** S. et S. Mich. I, p. 399. Fungi it. tab. 346. Syll. Pyr. II, p. 187 (ut species).

*Hab. in foliis langidis Fraxini Orni* « Pianzano, Ital. bor. ». (Tab. CXXXIV, fig. 1. — Ex specim. orig. a cl. Saccardo benevole comm.).

Perithecia sparsa, lenticulari-globosa, 100-110  $\mu$ . diam., prominula, hypophylla; asci 60-70  $\times$  9-11; sporidia 28-30  $\times$  3-4, saepe triseptata, subinde 4-5-septata, hyalina vel vix viridula.

A typo differt peritheciis hypophyllis.

**Sphaerulina pachyasca** (Niessl) Berl. *Leptosphaeria pachyasca* Niessl in Hedw. 1882. p. 111. Winter Pilze II, p. 489. *Metaspheeria pachyasca* Sacc. Syll. Pyr. II, p. 171. *Sphaerulina callista* Var. *Vossii* Rehm in Voss Mat. Pilz. Kraains X, p. 220. Sacc. Suppl. Tot. Syll. I, p. 847.

*Hab. in foliis siccis Campanulae caespitosae et C. Scheuchzeri « Grosskahlenberg prope Laibach et Katharinatale prope Neumartitl Carniolae ».* (**Tab. CXXXI, fig. 2.** — Ex specim orig. *Sphaer. callistae* var. *Vossii* a cl. Rehm benevole communicatis.).

Perithecia sparsa, 300  $\mu$ . diam.; asci ampli, magni, 160-190  $\times$  80-90; apophysati, sporidia 56-72  $\times$  22-30, plerumque 6-septata, hyalina, episporio crasso halonem mucosum simulante, cincta.

Paraphyses a cl. Niessl notatae potius ut asci steriles habendae.

**Sphaerulina pachyasca** var. **callista** Rehm Beitr. Ascom. in Hedw. 1882, p. 122, (ut spec.). Sacc. Syll. Pyr. II, p. 188 (ut species).

*Hab. in caulinibus siccis* Alsines? in Valle Pilz Alpium Tyroliae.

Perithecia minima, globosa vel subconica, sparsa; asci ovales 150  $\times$  50; sporidia ellipsoidea, plerumque 6-cellularia, hyalina, volvâ mucosa circumdata, loculo tertio caeteris crassiore.

**Sphaerulina Annae** (Oud.) Berl. *Metasphaeria Annae* Oud. Contr. Fl. Myc. Now. Semlja p. 12, tab. I, fig. 9. Sacc. Suppl. Tot. Syll. I, p. 826.

*Hab. in Ranunculo nivali var. sulphurea* « Nowaja Semlja ». (**Tab. CXXXV, fig. 3.** — Ex icono Oudemansiano).

Perithecia sparsa, 200  $\mu$ . diam., depresso-globosa, ostiolo vix papillato; asci 130  $\times$  50 octospori; sporidia 60  $\times$  14 (sine muco), loculis altitudine inaequalibus, hyalina, strato mucoso 3-4  $\mu$ . crasso obvoluta.

An eadem ac *Sphaerul. pachyasca*? Certe ad hoc genus pertinet.

### Species incertae vel non examinatae.

*Sphaerulina Leightoni* (Berk.) Sacc. *Sphaer. islandica* Rostr. *Sphaer. Giliae* Speg. non vidi. *Sphaer. Coriariae* Pass. Ex specim. orig. nihil eruere potui. *Sphaer. Camelliae* Pass. non vidi. *Sphaer. Pini* Pass. Non vidi. *Sphaer. sambucina* Peck. id. *Sphaer. Staphyleae* Pass. id. *Sphaer. Acetabulum* (Berk.) Sacc. id. *Sphaer. Caricis* Pat. id. *Sphaer. cetraricola* (Nyl.) Karst. id. *Sphaer. assurgens* (Cooke) Berl. id. *Sphaer. Todeae* (Cooke) Berl. ex specim. orig. nihil eruere potui.

**METASPHAERIA** Sacc. Syll. Pyr. Vol. II, p. 156. Brunaud Flore Mycol. Ouest. p. 183 Briard Florule p. 312. Bommer et Rouss. Florule p. 208 Ellis et Ever. North. Amer. Pyr. p. 379.

Perithecia epidermide tecta, dein subinde erumpentia, membranacea, papillata. Asci paraphysati, octospori. Sporidia ellipsoidea vel oblongo-fusoidea, bi-pluriseptata, hyalina, subinde muco obvoluta. Genus *Leptosphaeriae* et *Sphaerulinae* valde affine et subinde ab eis aegre separandum; speciebus non nullis ad *Massarinam* vertit, a quo praecipue differt peritheciis tenuioribus, membranaceis, saepius caulicolis.

**Metasphaeria Trollii** Karst. in Hedw. 1884, n. 6, p. 3 et Rev. atque Syn. Ascom. Fenn. p. 43. Sacc. Suppl. Tot. Syll. p. 826.

*Hab. ad caules emortuos Trollii europaei prope « Plenji maris glacialis ».* (Tab. CXXXV, fig. 2. — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia in greges minutos sociata, 300-400  $\mu$ . diam.; asci 60-70  $\times$  8; sporidia 12-14  $\times$  3-4 hyalina 3-4-guttata. Mihi videtur potius fungus immaturus.

An plenius evolutus ad *Leptosphaeriam* adscribendus?

**Metasphaeria Leersiae** (Pass.) Sacc. Syll. Pyr. II, p. 173. *Sphaerella Leersiae* Pass. in Thuem. Myc. Univ. n. 965 et Hedw. 1878, p. 46.

*Hab. in foliis aridis Leersiae oryzoidis prope « Parma Ital. bor. ».* (Tab. CXXXV, fig. 3. — Ex specim. orig. in Thuem. l. c.).

Perithecia sparsa, minima,  $1/_{10}$  mm. d.; asci 35-38  $\times$  8; sporidia 12-14  $\times$  3  $1/_{2}$ -4.

Ob specimina senescentia septa secundaria non vidi, et speciem retuli fide cl. Passerini, sed mihi videtur potius *Hyalodidyma*. Habitus est *Sphaerellae* sed asci sunt paraphysati. Potius *Didymella*.

**Metasphaeria involucralis** Sacc. Syll. Pyr. II, p. 172. *Leptosphaeria involucralis* Pass. in Hedw. 1873, 140 *Sphaeria involucr.* Pass. in Rab. Fungi europ. n. 1632.

*Hab. in involucris Castanearum « Collecchio prope Parma It. bor. ».* (Tab. CXXXV, fig. 4. — Ex specim. orig. in Rab. I. c. a cl. Pirotta benevole comm.).

Perithecia subgregaria, minuta  $1/_{9}-1/_{7}$  mm. d.; asci paraphysati, 30-35  $\times$  8; sporidia 12-15  $\times$  3, biconidea, uniseptata, quadriguttata.

Vix *Metasphaeria*. Potius *Didymella*. A typo differt praecipue sporidiis semper uniseptatis.

**Metasphaeria cocogena** (Cooke) Sacc. Syll. Pyr. II, p. 172. *Sphaeria cocogena* Cooke Grev. V, p. 102, tab. 86, fig. 8.

*Hab. in foliis Cocos nuciferae « Demerara ».* (Tab. CXXXVI, fig. 1. — Ex specim. orig. a cl. Cooke benevole communic.).

Perithecia subsparsa  $1/_{4}-1/_{3}$  mm. d. epidermide albo-punctato tecta; asci 60-12; sporidia 14-18  $\times$  5-6. Appendiculas non vidi. Specimen mihi immaturum videtur.

**Metasphaeria ocellata** (Niessl) Sacc. Syll. II, p. 157. Winter Pilze II, p. 468. *Lept. ocellata* Niessl in Kunze F. Sel. exsicc. cent. IV, n. 334.

*Hab. in caulis aridis Hyperici perforati prope Zürich Helvetiae.* (Tab. CXXXVI, fig. 2. — Ex specim. orig. in Kunze l. c.).

Perithecia subgregaria  $1/_{4}-1/_{3}$  mm. d.; asci 60-70  $\times$  10-12; sporidia 17-19  $\times$  5-6 (non 9-10  $\times$  5-6 ut in Sacc. Syll. et Wint. l. c.).

**Metasphaeria Cumanella** Sacc. et Berl. Myc. aliq. Guin. p. 3. in Rev. Myc. 1889. Sacc. Suppl. Syll. I, p. 839.

*Hab. in foliis emortuis Musae « S. Thomè Nova Moka Afr. occid. ».* (Tab. CXXXVI, fig. 3).

Perithecia gregaria, amphigena, sed plerumque hypophylla.  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; ascii 50-60  $\approx$  12-14; sporidia 15-18  $\approx$  3-4.

**Metasphaeria corticola** (Fuck.) Sacc. Syll. Pyr. II. p. 166. Berl. et Bres. Microm. Tridentini p. 40. *Lept. cort.* Sacc. Mich. I, p. 342. Fungi it. tab. 288. *Sphaeria cort.* Fuck. et Symb. p. 14, tab. III, fig. 14. *Metasphaeria lejostega* Sacc. Syll. Pyr. II, p. 164, Briard Flor. Crypt. p. 312. *Sphaeria lejostega* Ell. Torr. bot. Club 1881, p. 91. *Sphaeria cinerea* Fuck. Symb. Myc. p. 114, F. rhen. 2044. *Met. cin.* Sacc. Syll. II, p. 166. *Lept. ciner.* Winter Pilze II, p. 474.

*Hab. in ramis variis ex. gr.* Pruni, Salicis, Caryae, Rosae, Vaccinii etc. « New-field New Jersey Am. bor. » et au Prédition près des Marots, Aube Galliae Oestrich. Germaniae et prope Trento Austriae. (Tab. CXXXVI, fig. 4. — Ex specim. orig. *M. lejostegae* in North Am. Fungi cum iis *M. cortic.* et *M. cinereae* orig. comparatis).

Perithecia sparsa, epidermide circa ostiolum atratā tecta,  $\frac{1}{4}$  mm. d.; ascii 95-110  $\approx$  8-12; sporidia 15-18  $\approx$  4-6. An *Melomastia*?

**Metasphaeria lacustris** (Fuck.) Sacc. Syll. Pyr. II, p. 173. *Sphaeria (?) lacustris* Fuck. Symb. Myc. App. II, p. 22. Fungi rhen. n. 2436, *Leptosphaeria lacustris* Winter Pilze II, p. 451.

*Hab. in foliis putrescentibus sed adhuc stantibus* Typhae angustifoliae prope « Budenheim Germaniae (Tab. CXXXVII, fig. 2. — Ex specim. orig. in Fung. rhen. editis a cl. Briosi benevole comm.).

Perithecia gregaria, minuta  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d. (non 1 mm. ut in Fuck. l. c.) ascii 65-70  $\approx$  10-12; sporidia 12-15  $\approx$  5, diu uniseptata.

**Metasphaeria culmifida** (Karst.) Sacc. Syll. Pyr. II, p. 674. *Leptosphaeria culmifida* Karst. Myc. Fenn. II, p. 103.

*Hab. in culmis Phlaei pratensis in « Fennia ».* (Tab. CXXXVII, fig. 2. — Ex specim. orig. a cl. Karst. benevole comm.).

Perithecia sparsa,  $\frac{1}{5}$  mm. d.; ascii 60-70  $\approx$  12-14; sporidia 20-22  $\approx$  6-8, nubiloso-hyalina.

**Met. culmifida** forma **Poae** (Niessl) Berl. *Leptosphaeria Poae* Niessl in Rehm Ascom. n. 643, in Hedw. 1882, p. 83. Winter Pilze II, p. 446 Rabenh.-Winter F. Eur. n. 2854. *Metasp. Poae* Sacc. l. c. p. 175.

*Hab. in culmis Poae nemoralis prope « Brünn Germaniae ».* (Tab. CXXXVII, fig. 3. — Ex specim. orig. in Rab. Wint. l. c.).

Perithecia sparsa  $\frac{1}{5}$  mm. d.; apice penicillo setularum minuto ornata; ascii 85-95  $\approx$  14-16; sporidia 24-26  $\approx$  6.

**Metasphaeria Vincae** (Fr.) Sacc. Syll. Pyr. II, p. 171. *Sphaeria Vincae* Fr. in Duby Bot. Sall. II, p. 709. *Sphaerella Vincae* Auersw. Myc. Eur. p. 10, fig. 49 (immat.) Sacc. Myc. Ven. Spec. p. 209. *Leptosphaeria Vincae* Sacc. Fungi it. tab. 490, Winter Pilze II, p. 488.

*Hab. in foliis emortuis Vincae minoris in « Germania, Gallia, Suecia et Italia ».* (Tab. CXXXVII, fig. 4. — Ex specim. italicis in Herb. Sacc.).

Perithecia sparsa, minuta, prominula,  $\frac{1}{5}$  mm. d.; asci 42-52  $\times$  8-10; sporidia 15-18  $\approx$  3  $\frac{1}{2}$ -4.

**Metasphaeria Thwaitesii** (B. et C.) Sacc. Syll. Pyr. II, p. 161. *Sphaeria Thwaitesii* B. et Br. Not. Brit. Fungi n. 646, t. II, fig. 32. Rab. F. Eur. a 750.

*Hab. in caulis Umbelliferarum « Bristol Britanniae » in « Belgio et Am. bor. ».* (Tab. CXXXVIII, fig. 1. — Ex specim. orig. a cl. Pirotta et Cooke benevole comm.).

Perithecia sparsa, mycelio subaerugineo matricem penetrante, delicato cincta; asci 80-90  $\times$  12-14; sporidia 16-18  $\approx$  5-6, semper pseudo-triseptata visa.

Affinis *Melomastiae Friesii*, a qua in primis sporidiis quadrinucleatis differt. An hujus generis?

**Metasphaeria Panicorum** (Cooke) Sacc. Syll. Pyr. II, p. 175. *Sphaerella panicum* Cooke in Grev. V, p. 153.

*Gab. in foliis exsiccatis Panicorum « Carolina austr. Amer. bor. ».* (Tab. CXXXVIII, fig. 2. — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia 2-3 congesta, minuta, 120-150  $\mu$ . d.; asci 40-45  $\times$  8; sporidia 12-14  $\approx$  3, et quam cl. Cooke opinatur multo minora (Cfr. Grevillea et Syll. I. l. c. c.).

**Metasphaeria Luzulae** (Wint.) Berl. *Leptosphaeria Luzulae* Winter Hedw. 1872, p. 149, Die Pilze II, p. 450 Sacc. Syll. Pyr. II, p. 67.

*Hab. ad folia arida Luzulae maxima, prope « Seis Tyroliae ».* (Tab. CXXXVIII, fig. 3. — Ex specim. orig. a cl. I. Urban Musaci berolinensi benevole comm.).

Perithecia epiphylla, 160-180  $\mu$ . d., sparsa vel congregata; asci 55-65  $\times$  9-11; sporidia 18-20  $\times$  4, primo biconoidea, dein pseudo-triseptata, hyalinula h. e. vix virescentia, sed haud colorata ut in *Leptosphaeria*.

**Metasphaeria Cyparissi** Pass. Diagn. Funghi Nuovi I, n. 62. Sacc. Suppl. Tot. Syll. I, p. 837.

*Hab. in fructibus Cupressi pyramidalis « Tagliano in agro parmensis It. bor. ».* (Tab. CXXXVIII, fig. 4. — Ex specim. orig. a cl. Passerini benevole comm.).

Perithecia sparsa vel subgregaria, ostiolo crasso  $\frac{1}{5}$  mm. d.; asci 75-80  $\times$  10-12; sporidia 16-18  $\times$  4-5, hyalina, non rite evoluta et numquam extra ascis visa. Videtur forma immatura. An ad *Lophiotrema vagab.* adscribenda?

**Metasphaeria anarithmoides** (S. et S.) Sacc. Syll. Pyr. II, p. 175. *Leptosphaeria anarithmoides* S. et S. Mich. I, p. 395, Fungi It. t. 366.

*Hab. in foliis emortuis Graminum « Conegliano It. bor. ».* (Tab. CXXXIX, fig. 1. — Ex specim. orig. a cl. Sacc. benevole comm.).

Perithecia sparsa,  $\frac{1}{7}\text{-}\frac{1}{5}$  mm. d.; asci paraphysati, 80-90  $\times$  15-18; sporidia 20-24  $\approx$  6-7, an demum 3-septata?

**Metasphaeria ambigua** Berl. et Bres. Microm. Trid. p. 39. tab. III, fig. 9. Sacc. Suppl. Tot. Syll. I, p. 827.

*Hab. in caulis emortuis Sambuci Ebuli « Val di sole prope Trento ».*

**Tab. CXXXIX, fig. 2.**

Perithecia sparsa demum prominula, asci 100-110  $\times$  12-13; sporidia transverse 1-septato-constricta, eximie biconoidea (an demum 3-5-septata?), muco crasso obvoluta, 27-30  $\approx$  5 sine muco, 42-45  $\approx$  8-9 cum muco.

**Metasphaeria ferulina** (Dur. et Mont.) Sacc. Syll. Pyr. II, p. 160. *Sphaeria ferulina* Dur. et Mont. Syll. Crypt. n. 843. Fl. Alg. I, p. 484.

*Hab. in caulis siccis Ferulac communis « Birmandreis Algeriae ».*

(**Tab. CXXXIX, fig. 3.** — Ex spec. orig. a cl. Hariot Musaei Parisiensis benevole comm.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 80-90  $\times$  8-9; sporidia 17-20  $\times$  4-5, hyalina, in massa vix flavescentia.

**Metasphaeria Cumana** (Sacc. et Speg.) Sacc. Syll. Pyr. II, p. 177. *Leptosphaeria Cumana* S. et S. Mich. I, p. 394, Fungi It. tab. 327. *Sphaeria Cumana* Cooke Grev. 1880, p. 30.

*Hab. in foliis emortuis Caricum « Conegliano It. bor. et in Britannia ».*

(**Tab. CXL, fig. 1.** — Ex specim. orig. a cl. Sacc. benevole comm.).

Perithecia laxe seriata, innata, vix erumpentia, globoso-depressa,  $\frac{1}{4}\text{-}\frac{1}{5}$  mm. d.; asci 45-55  $\approx$  8-9; sporidia 16-18  $\times$  4. Species, ut videtur non perfecte evoluta, et sporidiis pallidissime luteolis gaudens. Si demum sporidia saturatiora fiunt, species a *Leptosphaeria eustoma f. apogone* vero distincta?

**Met. Cumana** var. **Luzulina** Karst. in Hedw. 1884, n. 1, p. 5 et Rev. atque Syn. Ascom. fenn. p. 44. Sacc. Suppl. Un. Syll. I, p. 841.

*Hab. in foliis emortuis Luzulae pilosae « Mustiala Fenniae ».* (**Tab. CXL, fig. 2.** — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia hypophylla, sparsa vel subgregaria,  $\frac{1}{4}\text{-}\frac{1}{3}$  mm. diam.; asci 65-75  $\approx$  10-12; sporidia 22-24  $\times$  4-5, dilutissime chlorina. Cum typo ad *Leptosphaerium eustomam* adpropinquat, in primis forma, colore et fabrica sporidiorum.

**Metasphaeria Empetri** (Fr. p. p.) Sacc. Syll. Pyr. II, p. 171. *Sphaeria Empetri* Fr. Syst. Myc. II, p. 522 p. p. ?? Fuck. Sym. Myc. App. II, p. 18. Fungi rhen. n. 2648.

*Hab. in pagina superiore foliorum Empetri nigri in « Helvetia, Germania, Italia ».* (**Tab. CXL, fig. 3.** — Ex specim. Fuckelianis in Fungis rheananis l. c.).

Perithecia sparsa, lenticiformia, 300  $\mu$ . diam.; asci 80-90  $\times$  10-12; sporidia 16-18  $\approx$  8.

**Metasphaeria Brachypodii** (Pass.) Sacc. Syll. Pyr. II, p. 176. *Leptosphaeria Brachypodii* Pass. in Hedw. 1878, p. 45. Winter Pilze II, p. 447, Kunze Fungi sel. n. 578, Rabenh. Fungi cur. n. 2334, Thuem. Myc. Un. n. 2159.

*Hab. in foliis emortuis Brachypodii in « Italia boreali et Germania ».* (Tab. CXL, fig. 4. — Ex specim. Winterianis in Thuem. l. c.).

Perithecia sparsa, minuta 170-200  $\mu$ . d.; asci 75-85  $\approx$  12-14; sporidia 22-24  $\approx$  7, diu biconoidea, uniseptata, dein plasmate 4-partito. An demum 3-septata?

**Metasphaeria helicicola** (Desm.) Sacc. Syll. Pyr. II, p. 109. *Sphaeria helicicola* Desm. 16 Not. 1849, p. 30. *Leptosph. helicicola* Niessl. Beitr. p. 25, tab. III, fig. 18.

*Hab. in foliis siccis Hederae Helicis in « Gallia, Italia, Germania, Belgio et Am. bor. ».* (Tab. CXLI, fig. 1. — Ex specim. orig. a cl. Hariot Musaei Parisiensis benevole comm. cum aliis e regionibus variis comparatis.).

Perithecia dense sparsa, 130-150  $\mu$ . diam.; asci 70-80  $\approx$  12-14; sporidia 18-20  $\approx$  4-5, primo biconoidea dein pseudo-triseptata, halone mucoso cincta, demum ad septa constrictula.

**Metasphaeria pampinea** Sacc. Syll. Pyr. II, p. 164. *Leptosphaeria pampinea* Sacc. in Rev. Myc. IV, p. 2, nec *Sphaeria Pampini* Thuem.

*Hab. in sarmenitibus Vitis « Auxerre Galliae ».* (Tab. CXLI, fig. 2. — Ex adumbratione a cl. Paoletti accepta, qui specimina originalia, ut eam conficeret, examinavit).

Perithecia subcutanea, gregaria, 75-85  $\mu$ . diam.; asci 36-40  $\approx$  7-8; sporidia 12-14  $\approx$  3-5.

**Metasphaeria Cassiopes** Rost. Fungi Groenl. p. 561. Sacc. Suppl. Syll. I, p. 832.

*Hab. in foliis exsiccatis Cassiopes tetragonae, socia Leptosphaeria inconspicua* (Rost.) Berl. in « Groenlandia ». Tab. CXLI, fig. 3. — Ex specim. orig. a cl. Rostrup benevole comm.).

Perithecia sparsa, semiimmersa, minuta; asci 35-40  $\approx$  8-10; sporidia 12-15  $\approx$  5, hyalina.

**Metasphaeria clypeosphaerioides** Bomm. Rouss. et Sacc. Suppl. Syll. I, p. 832.

*Hab. in sarmenitibus Rubi fruticosi « Groenendael Belgii ».* (Tab. CXLII, fig. 1. — Adumbrationem mihi misit cl. Paoletti, qui specimen originalem ad eam conficiendam examinavit).

Perithecia dense gregaria, globulosa, 300  $\mu$ . diam.; epidermide atratâ, fissâ tecta; asci 60-70  $\approx$  6-8; sporidia 9-11  $\approx$  3-4. Habitus *Clypeosphaeriae*.

**Metasphaeria sepincola** (B. et Br.) Sacc. Syll. Pyr. Vol. II, p. 164. p. p.; Brunaud Contr. Fl. Myc. Ouest. Pyren. p. 163 p. p.; Berlese Fungi Moricolae fasc. IV n. 4 tab. XXXI, fig. 6-9, Int. ad Alc. Spec. poco note del gen. *Le-*

*ptosphaeria* p. 14, Pug. fungi Fiorent. p. 14. *Sphaeria sepincola* Berkeley et Broome Not. of. Brit. Fungi in Ann. and Mag. Nat. Hist. n. 636 t. II, fig. 21. (non *Sph. sepincola* Fries.) Fuck. Symb. myc. p. 114 et App. II, p. 22. *Sphaeria fuscella* Sacc. Myc. Ven. Spec. p. 97 p. p. tab. IX, fig. 39, 43, 44, 45, Fungi Veneti Ser. I, p. 276 p. p. *Leptosphaeria vagabunda* Sacc. Fungi Ven. Novi v. critici Ser. II, p. 318 p. p. et Syll. Pyr. II, p. 31 p. p. Bizzozero Flora Ven. Critt. P. I, p. 245 p. p. Winter Pilze Band II, p. 465 p. p. *Massaria Rubi?* Fuck. Symb. Myc. App. I, p. 303. *Massarina Rubi?* Sacc. Syll. Pyr. II, p. 155. *Massaria Winteri* Rhem in Hedw. 1883, p. 60, Winter Pilze II, p. 542. Sacc. Supp. Syll. I, p. 759.

*Hab. in ramis Rubi*, Carpini, Vitalbae, Crataegi, Corni, Coryli, Spireae nec non in caulis nonnullarum plantarum in « Italia bor. Gallia et Germania ». (Tab. CXLII, fig. 2. — Ex specim. florentinis cum aliis multis comp.).

Perithecia sparsa vel leniter gregaria, 150-200  $\mu$ . diam.; asci 65-75  $\times$  12-14; sporidia 18-20  $\times$  4-6 initio septo medio tantum visibili (diaporthoides) dein pseudo-triseptatis.

**Metasphaeria sepincola** var. **Aquilegiae** Berl. et Bres. Micr. Trident. p. 39. M. *Aquilegiae* Bres. Rev. Myc. 1890, p. 185. Sacc. Supp. Tot. Syll. I, p. 827.

*Hab. in caulis emortuis Aquilegiae vulgaris prope « Trento » et prope « Leutschau Hungariae ».*

Perithecia minuta, conoideo-depressa, dein collapsa 130-150 m. diam., sparsa; asci 50-70  $\times$  7-9; sporidia quam in typo minora, nempe 15-16  $\times$  3-3, 5 triseptata, hyalina, guttulata, parte superiori conoidea, crassiori.

**Metasphaeria dealbata** Berl. n. sp.

*Hab. in ramis fracidis decorticatis* « Frant, Sussex. Britanniae ». (Tab. CXLII, fig. 3).

Perithecia subsparsa, maculis dealbatis insidentia,  $1/3$  mm. d.; contextu molli, olivaceo; asci 80-90  $\times$  10; sporidia etiam disticha sed saepius monosticha, 16-20  $\times$  7.

Speciem hanc in speciminibus orig. *Zignoellae dealbatae* et pro specie hac inveni. Sporidiorum forma *Met trichostomam* in mentem revocat sed ab ea in primis differt ostiolo non setoso, sporidiis 3-septatis minoribusque. A *Zignoellis* peritheciis membranosis, tectis distat.

**Metasphaeria saprophila** (Rehm) Sacc. Syll. Pyr. II, p. 172. *Leptosphaeria saprophila* Rehm in Hedw. 1882, p. 121.

*Hab. ad baccas putrescentes Juniperi nanae prope « Kühai alpium Tyrolensium ».* (Tab. CXLII, fig. 4. — Ex specim. orig. a cl. Rehm benevoli comm.).

Perithecia gregaria,  $1/5$ - $1/4$  mm. d.; asci 60-70  $\times$  12-15; sporidia 18-22  $\times$  6-7.

**Metasphaeria neglecta** (Niessl) Sacc. Syll. Pyr. II, p. 173, (non Rostr.).

*Leptosphaeria neglecta* Niessl. Beitr. p. 25, tab. VII, fig. 22, Winter Pilze II, p. 445.

*Hab. in foliis siccis Graminum prope «Bozen Tyroliae».* (Tab. CXLIII, fig. 1. — Ex Beitr. l. c.).

Perithecia sparsa, 170  $\mu$ . d.; asci 84-90  $\times$  50-58; sporidia 33-11. Sec. cl. Niessl sporidia sunt medio septata et paulo constricta, utrinque minute apiculata, utraque parte bicellulari sed septulo haud bene manifesto; haud raro sunt bilocularia vel parte una tantum bicellulari. Specimina a cl. Rostrup missa potius ad *Pleosporam* (*Cathar.*) pertinent, nam sporidia sat frequens septulo longitudinali gaudent.

**Metasphaeria distributa** (C. et Ell.) Berl. *Sphaeria distributa* C. et E. Grev. VII, p. 41. *Leptosphaeria distributa* Sacc. Syll. Pyr. II, p. 18. *Metasphaeria Müggenburgi* Sacc. Syll. Pyr. II, p. 164, *Cucurbitaria Vitis* Schulz. Myk. Beitr. p. 643, Pirotta F. Vit. p. 44.

*Hab. in caulinibus Desmodii «New Jersey Amer. bor.» et in sarmentis Vitis viniferae in «Austria».* (Tab. CXLIII, fig. 2. — Ex specim. orig. *Met. distributae* cum iis *M. Müggenburgi*, a claro Passerini collectis, minute comparatis.

Perithecia sparsa vel gregaria,  $\frac{1}{3}$  mm. d.; asci 70-80  $\times$  12-14; sporidia muco obvoluta, biconoidea, 24-28  $\times$  6-8, (sine muco) hyalina.

**Metasphaeria socia** Sacc. Syll. Pyr. II, p. 165. *Leptosphaeria socia* Sacc. Mich. II, p. 533.

*Hab. in sarmentis subvivis sed dealbatis Vitis viniferae prope «Padova It. bor.», socia Metasphaeria chaetostoma.* (Tab. CXLIII, fig. 3. — Ex adumbratione a cl. Paoletti mihi missa et speciminibus originalibus extracta).

Perithecia gregaria, minuta, 120-150  $\mu$ . diam.; asci 70-80  $\times$  7-8; sporidia 18-20  $\times$  3-3,5.

**Metasphaeria Arabidis** Johans. Svamp. Island. p. 167, tab. XXIX, fig. 11. Sacc. Suppl. Syll. I, p. 830, Rostrup. Fungi Groenl. p. 560.

*Hab. in foliis emortuis Arabidis Alpinac «Eskifjördur Islandiae et Kerortusok Groenlandiae»* (Tab. CXLIII, fig. 4. — Ex specimine a cl. Rostrup benevolē comm.).

Perithecia sparsa vel gregaria, depresso globosa, poro rotundo pertusa, 180-200  $\mu$ . diam.; asci 52-60  $\times$  10-12; sporidia distincte triseptata, vix flavescentia, 22-25  $\times$  4-5.

Sporidiis vix flavescentibus, distincte septatis (haud pseudoseptatis ut in pluribus *Metasphaeriis*) ad *Leptosphaeriam* vertit. Si sporidia plenius evoluta, luteola fiunt, certe species a *Lept. customae* varietate quadam vel formā, haud separanda.

**Metasphaeria Coryli** Cel. Micr. Montp. p. 34, fig. 5. Sacc. Suppl. Syll. I, pag. 835.

*Hab. in ramulis Coryli Avellanae var. purpureae «Montpellier Galliae»* (Tab. CXLIV, fig. 1. — Ex adumbratione celottiana l. c.).

Perithecia subgregaria, minuta, globoso-depressa, ostiolo conico; asci 75-80 × 10-12; sporidia 18-22 × 5-6, hyalina.

**Metasphaeria fusariispora** (Mont.) Sacc. Syll. II, p. 180. *Sphaeria fusariispora* Mont. Syll. n. 867, et Guy. n. 570, tab. 6, fig. 6.

*Hab. in foliis Bambusae «Cayenna»* (Tab. CXLIV, fig. 2. — Ex specim. orig. a cl. Hariot ex Musaeo parisiensi benevole communic.).

Perithecia epiphylla,  $\frac{1}{3}$  mm. d., coriacella, rugosa, ostiolo indistincto, irregulari-globosa, depressa; asci paraphysati, 60-70 × 12; sporidia diu uniseptata, dein (ut videtur) triseptata, 20-23 × 4-5, non constricta, hyalina.

Specimina examinata sunt immatura et valde senescentia; sporidia numquam 5-septata vidi, et raro pseudo-triseptata. Si magis evoluta, characteres a cl. Montagne notatos praebent, mihi dubium.

**Metasphaeria rubella** (S. et M.) Syll. Pyr. II, p. 167. *Leptosphaeria rubella* Sacc. et Malbr. Mich. II, p. 598.

*Hab. ad caules in hortis prope «Rouen Galliae»* (Tab. CXLIV, fig. 3. — Adumbrationem ex specim. orig. excerptis cl. Paoletti et mihi benevole communicavit).

Perithecia in matrice cruentato-violacea innato-erumpentia, 300-400 μ. diam.; asci 120-140 × 11-13; sporidia 24-28 × 5,5-6.

**Metasphaeria anarithma** (B. et Br.) Sacc. Syll. Pyr. II, p. 175. *Sphaeria anarithma* B. et Br. Ann. N. H. n. 893, t. 11, fig. 37, Sacc. Fungi Ven. Ser. V, pag. 175, *Leptosphaeria anarithma* Sacc. Fungi it. tab. 400. *Sphaerella anarithma* Sacc. Syll. Pyr. I, p. 526.

*Hab. in foliis exsiccatis Airae caespitosae et Sorghi in «Britannia et Italia»*. (Tab. CXLV. fig. 1. — Ex specim. italicis in Herb. Sacc.).

Perithecia sparsa, minuta,  $\frac{1}{5}$  mm. d.; asci 90 × 15; sporidia 25-28 × 5-6 $\frac{1}{2}$ .

Specimina originalia, a cl. Cooke et cl. Hariot benevole missa, sterilia inveni, Saccardiana saltem e diagnosi haud dubie ad speciem Berkeleyanam spectant.

**Metasphaeria anarithma** var. **coccodes** (Karst.) Berl., *Metasphaeria coccodes* Sacc. Syll. Pyr. II, p. 175, *Leptosphaeria coccodes* Karst. Myc. Fenn. II, p. 103.

*Hab. in culmis Calamagrostidis vetustis ad «Mustiala, Fenniae»* (Tab. CXLV, fig. 2. — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia in acervulos parvos collecta,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 95-105 × 8-10, sporidia biconoidea (an demum 3-4-septata, ut cl. Karsten opinatur?) pallidissime viridula, 26-28 × 4-5.

Verisimiliter *Leptosphaeria* immatura. Inter *Metasphaerias* sporidiorum formā valde affinis *Met. inimundae*.

**Metasphaeria immunda** (Karst.) Sacc. Syll. Pyr. II, p. 170. Karst. Rev. atque Syn. Asc. Fenn. p. 43. *Leptosphaeria immunda* Karst. Myc. Fenn. II, pag. 105.

*Hab. in foliis emortuis Populi tremulae «Tammela Fenniae»* (**Tab. CVLX, fig. 3.**) — Ex specim. orig. a cl. Karsten benevole communic.).

Perithecia sparsa, amphigena, majuscula, rugosula, 300-400  $\mu$ . diam.; asci 105-115  $\times$  12-14; sporidia utrinque appendiculigera, 28-32  $\times$  7-8 (sine appendiculis) pseudo-triseptata, (an demum 5-septata?).

Sporidiorum facies *Lophiotrema* in mentem revocat.

**Metasphaeria coniformis** (Fuck.) Sacc. Syll. Pyr. II, p. 150. *Pleospora coniformis* Fuck. Symb. Myc. p. 136, Fungi rhen. n. 2163. *Sphaeria coniformis* Fries Syst. Myc. II, p. 508? *Leptosphaeria coniformis* Winter Pilze II, p. 469.

*Hab. in caulinibus emortuis Euphrasiae luteae prope «Budenheim Germaniae»* (**Tab. CXLVI, fig. 1.**) — Ex specim. orig. a cl. Briosi benevole comm.).

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 95-105  $\times$  12-13; sporidia, 35-37  $\times$  4, pallidissime flava, fere hyalina.

*Metasphaeria affini* propinqua, a qua differt ascis octosporis sporidiisque paullo minoribus.

**Metasphaeria affinis** (Karst.) Sacc. Syll. Pyr. II, p. 157. *Leptosphaeria affinis* Karst. Myc. Fenn. II, p. 102.

*Hab. in caulinibus emortuis Rhinanthe «Mustiala Fenniae»* (**Tab. CXLVI, fig. 2.**) — Ex specim. orig. a cl. Karsten benevole comm.).

Perithecia subgregaria, primo tecta dein libera,  $\frac{1}{5}$  mm. et amplius diam., nitida; asci 100-110  $\times$  12-14, tetraspori; sporidia 48-50  $\times$  4-6, in senectute lutescentia.

**Metasphaeria cafra** (Thuem.) Berl. *Leptosphaeria cafra* Thuem. Diagn. Mycoth. Un. n. 32 et Mycoth. univ. n. 351. Sacc. Syll. Pyr. II, p. 82.

*Hab. in frondibus vivis Marattiae salicifoliae «ad sedem Missionis Evangelicae Maiararam inter Cafros Tambukinos prope Basnia in terra Cafrorum»* (**Tab. CXLVII, fig. 1.**) — Ex specim. orig. ex Thuem. l. c.).

Perithecia in soros plus minusve orbiculares dense collecta,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d., superficialia, asci 50-60  $\times$  12-14; sporidia 27-30  $\times$  4-5, primo uniseptata dein parte superiori et demum quoque inferiori, pluriseptata (numquam 5-7-septata ut in Thuem. l. c.), hyalina.

Vix *Metasphaeria*. An genus novum?

**Metasphaeria punctulata** Ell. et Ev. Journ. Myc. IV, pag. 76, North Am. Pyr. p. 387, Sacc. Suppl. Syll. I, p. 833.

*Hab. in culmis emortuis Panici Curtissii «St. Martinsville, Louisiana Am. bor.»* (**Tab. CXLVII, fig. 2.**) — Ex specim. orig. a cl. Ellis benevole comm.).

Perithecia sparsa vel seriatim disposita,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 85-100  $\times$  18-22; sporidia 40-42  $\times$  6-8, subhyalina, hoc est pallidissime lutescentia.

**Metasphaeria Fontanesiae** Pass. Diagn. Funghi nuovi I, n. 60, Sacc. Suppl. Tot. Syll. I, p. 832.

*Hab. in ramulis siccis* Fontanesiae phyllireoidis in «Horto botanico parmensi Ital. bor.» (**Tab. CXLVIII, fig. 1.** — Ex specim. orig. a cl. Passerini benevole comm.).

Perithecia crebre sparsa, minuta,  $\frac{1}{4}$  mm. d., ostiolo latiusculo aperta; ascii 90–100  $\approx$  8–10; sporidia 22–24  $\approx$  5–6, hyalinula.

Potius forma *Lophiotrematis vagabundi*.

**Metasphaeria Galiorum** (R. et D.) Sacc. Syll. Pyr. II, pag. 161, *Sphaeria Galiorum* Rob. et Desm. 13 Not. 1846, pag. 77, Desm. Pl. Crypt. Fr. n. 1785.

*Hab. in caulis emortuis* Galii Aparines, G. cruciatae et G. Molluginis in Gallia». (**Tab. CXLVIII, fig. 2.** — Ex specim. a cl. Roumeguère missis cum originalibus, quae parum immatura inveni, comparatis).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; ascii 90–100  $\approx$  11–14; sporidia 26–30  $\approx$  6–7, nubilosa.

**Metasphaeria complanata** (Tode) Sacc. Syll. Pyr. II, pag. 161. *Sphaeria complan.* Tode Mekl. f. 88. Fr. Syst. Myc. II, p. 508. *Lept. comp.* De Not. Sch. Ifser. It. p. 62.

*Hab. in caulis herbaceis in Britannia, Gallia, Carolina inf.* (**Tab. CXLVIII, fig. 3.** — Ex spec. Gallicis in *Chaerophyllo hirsuto* a cl. Morthier lectis).

Perithecia sparsa vel laxe gregaria, usque  $\frac{1}{2}$  mm. diam.; ascii 90–100  $\approx$  8–10; sporidia 28–33  $\approx$  4–5 $\frac{1}{2}$ , in asco pallide luteola.

Inter *Leptosph.* et *Metasp.* media.

**Metasphaeria Lathyri** Sacc. Syll. Pyr. II, p. 157. *Leptosphaeria Lathyri* Sacc. Myc. Ven. Spec. p. 106, tab. X, fig. 28–30, Fungi ital. tab. 512.

*Hab. in caule emortuo dejecto* Lathyri silvestris in silva «Montello Ital. bor.» (**Tab. CXLIX, fig. 1.** — Ex Sacc. Fungi it. l. c.).

Perithecia minuta,  $\frac{1}{6}$  mm. d.; ascii 80  $\approx$  8; sporidia 30  $\approx$  4, hyalina.

**Metasphaeria subcutanea** (C. et Ell.) Sacc. Syll. Pyr. II, p. 165, *Sphaeria subcutanea* C. et Ell. in Grev. VII, p. 41.

*Hab. in ramis fere decorticatis* Piri «New Jersey Amer. bor.» (**Tab. CXLIX, fig. 2.** — Ex specim. orig. a cl. Ellis benevole comm.).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; ascii 80–90  $\approx$  8–10; sporidia 26–30  $\approx$  4–5, Videtur non bene evoluta.

**Metasphaeria Hederae** (Sow ?) Sacc. Syll. Pyr. II, p. 169. *Sphaeria Hederae* Sow. tab. 371, fig. 5, Sacc. Myc. Ven. 96, tab. IX, fig. 33–36, Oud. Mat. Myc. Neerl. II, p. 65, tab. XVI, fig. 7? (sub *Sphaerella*).

*Hab. in utraque pagina (sed praecipue in superiori) foliorum Hederae, Helicis in «Britannia, Italia, Belgio, Suecia, Hollandia».* (**Tab. CXLIX, fig. 3.** — Ex specim. italicis in Herb. Sacc.).

Perithecia in macula arescente, distincte brunneo-marginata, praecipue in pagina superiori gregaria, minuta 100-120  $\mu$ . d.; asci 60-70  $\approx$  10-12; sporidia 18-20  $\approx$  5-7.

Affinis *Met. helicicola*, a qua differt in primis peritheciis maculas occupantibus.

Verisimiliter species haec cum *Met. helicicola* ab auctoribus nonnullis confusa est, nam pluribus locis dicitur speciem hanc *paginam inferiorem foliorum dejectorum et putrescentium* occupare. Ego (saltet in speciminibus italicis) perithecia inveni in macula arescente (cfr. Iconem) brunneo-circumscripta, et in pagina superiore foliorum, rarius in inferiore. Folia vero non putrescentia neque dejecta videntur, nam adhuc viridem colorem (maculis exceptis) servant.

**Metasphaeria palmetta** (Cooke) Sacc. Syll. Pyr. II, p. 177, Ell. et Ev. North Am. Pyr. p. 386. *Sphaeria Palmetta* Cooke Grev. VII, p. 53, Fungi Brit. exsicc. n. 361.

*Hab. in Sabaal (Palma) «Darien Georgiae Am. bor.».* (Tab. CL, fig. 4.) — Ex specim. orig. in Cooke l. c.).

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 70-80  $\approx$  14-16; sporidia 22-25  $\approx$  7, halone submembranaceo, crasso cincta.

**Metasphaeria chaetostoma** Sacc. Syll. Pyr. Vol. II, p. 165, *Leptosphaeria chaetostoma* Sacc. Mich. II, p. 533.

*Hab. in sarmentis subvivis sed fere exalbatis Vitis Viniferae circa «Padova It. bor.» cum Metasphaeria socia* (Tab. CL, fig. 2). — Adumbrationem mihi misit cl. Paoletti qui specimina originalia examinavit.

Perithecia gregaria, 150-200  $\mu$ . diam., ostiolo setoso instructa; setae 38-45  $\approx$  3; asci 100  $\approx$  14; sporidia 22-25  $\approx$  5,5-6.

**Metasphaeria Xerophylli** (Ellis) Sacc. Suppl. Syll. I, p. 829. *Leptosphaeria Xerophylli* Ellis Amer. Nat. 1883, p. 316, Ellis et Ev. North Am. Pyr. p. 373.

*Hab. in solis Xerophylli Asphodeloidis «Willow Grove Am. bor.»* (Tab. CL, fig. 3). Ex specim. orig. in Ellis North Am. Fungi exsicc. n. 1340).

Perithecia semiimmersa, parva, 150  $\mu$ . diam.; asci 60-70  $\approx$  12-16; sporidia 20-24  $\approx$  6-7,5, hyalina.

**Metasphaeria Fiedlaeri** (Niessl) Sacc. Syll. Pyr. II, p. 165. *Leptosphaeria Fiedlaeri* Sacc. Mich. I, p. 39, Fungi it. tab. 289, *Cryptospora Fiedlaeri* Niessl in Hedw. 1874, p. 42.

*Hab. in ramulis Corni sanguineae «Voitsberg Styriae et Conegliano Ital. bor.».* (Tab. CLI, fig. 1). — Ex specim. Saccardianis.

Perithecia semiimmersa, epidermide tecta dein semilibera, coriaceo-carbonacea; asci 100-110  $\approx$  18; sporidia 26-32  $\approx$  6-7,5.

**Metasphaeria helvetica** Sacc. et Berl. Misc. Myc. II, p. 19, n. 84, tab. X, fig. 22, Sacc. Suppl. Syll. I, p. 834.

*Hab. in ramulis Lonicerae Xylostei prope «Neuchâtel Helvetiae» (Tab. CLI, fig. 2).*

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  15-18; sporidia 25-28  $\approx$  7-9, diu hyalina demum (senescendo) vix nubiloso-luteola.

Inter *Leptosphaeriam* et *Metasp. fere media*, sed aptius huic adscribenda.

**Metaspshaeria nobilis** Sacc. Syll. Pyr. II, p. 169. *Leptosphaeria nobilis* Sacc. Fungi Ven. Ser. II, p. 312, Fungi it. tab. 260.

*Hab. in foliis Lauri nobilis prope «Treviso Ital. bor. et Coimbra Lusitaniae» (Tab. CLI, fig. 3. — Ex Sacc. Fungi it. l. c.).*

Maculae epiphyllae, albidae, sinuosae, fuligineo-marginatae; perithecia remote sparsa, 90-100  $\mu$ . diam.; asci 90-100  $\approx$  10-11; sporidia 20-22  $\approx$  6-7.

Affinis *Met. Cynaracear.* et *Met. rupicola*.

**Metaspshaeria rupicola** Sacc. Fungi it. tab. 282, Syll. Pyr. II, p. 157. *Leptosphaeria scotophila* f. *Aconiti* Sacc. Fungi Ven. Ser. II, p. 317.

*Hab. in caulinibus emortuis Aconiti Napelli in silva «Cansiglio Ital. bor.» (Tab. CLII, fig. 1. — Ex Sacc. Fungi it. l. c.).*

Perithecia subsparsa  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; asci 70-80  $\approx$  15; sporidia 25-26  $\approx$  6-7.

Affinis *Metaspshaeria nobili* et *Met. Cynaracearum*. A *Met. scotophila* (quae ex investigatione speciminum originalium ad *Diaporthem* transtulii) diversa.

**Metaspshaeria Cynaracearum** (Niessl) Sacc. Syll. Pyr. II, p. 170. *Leptosphaeria Cynaracearum* Auersw. et Niessl Beitr. p. 24, tab. IV, fig. 25.

*Hab. in foliis siccis Carlinac acaulis prope «Brünn Moraviae» (Tab. CLIII fig. 2. — Ex Niessl Beitr. l. c.).*

Perithecia sparsa, exigua, erumpentia, 150  $\mu$ . diam.; asci 138  $\approx$  17-23; sporidia 20-24  $\approx$  6-7.

**Metaspshaeria macrotheca** Rostr. Fungi Groenl. p. 561, Sacc. Suppl. Syll. I, p. 842.

*Hab. in foliis siccis Caricis hyperboreae et C. rigidae in «Groenlandia» (Tab. CLII, fig. 3. — Ex specim. orig. a cl. Rostrup benevole comm.).*

Perithecia subsparsa,  $\frac{1}{5}$  mm. d., globosa globosove-depressa; asci 115-125  $\approx$  40-55, paraphysati; sporidia 35-40  $\approx$  14-16, halone mucoso crasso ob-voluta, hyalina.

Ob ascorum formiam, sporidiorum faciem atque dispositionem, ad *Sphaerulina* vergit, sed paraphyses *Metaspshaeriam* designant. Certe inter genera haec pauca sunt discrimina, nam in nonnullis speciebus *Sphaerulinae* (majoribus) asci non sunt roseolati, et verisimiliter paraphyses evanescunt.

**Metaspshaeria Scirpi** Berl. *Leptosphaeria vagans* f. *Scirpi* Sacc. Syll. Pyr. II, p. 59.

*Hab. in calamis putrescentibus Scirpi lacustris in «Spetsbergia» et «Gallia» (Tab. CLIII, fig. 1. — Ex specim. orig. a cl. Saccardo benevole communic).*

Perithecia sparsa vel gregaria, globosa vel globoso-depressa, diu tecta,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 110-120  $\approx$  28-30; sporidia 40-44  $\approx$  10-12, hyalina.

**Metasphaeria marina** (Ell. et Ev.) Berl. *Leptosphaeria marina* Ell. et Ev. in Journ. of Myc. 1885, p. 43, North Amer. Pyr. p. 372, Sacc. Suppl. Syll. I, pag. 789.

*Hab. in culmis emortuis Spartinae* «Cape May Amer. bor.». (**Tab. CLIII.** fig. 2. — Ex specim. orig. a cl. Ellis benevole comm.).

Perithecia irregulariter sparsa,  $\frac{2}{3}$ - $\frac{3}{4}$  mm. d.; asci 150-170  $\approx$  20-26; sporidia 58-65  $\approx$  10-12, subhyalina, h. e. dilutissime (vix conspicue) flavescentia.

Certe *Metasphaeria*. Pulchra species *Met. Scirpi* affinis sed major.

**Metasphaeria inulina** (Dur. et Mont.) Sacc. Syll. Pyr. II, p. 162, *Sphaeria inulina* Dur. et Mont. Syll. Crypt. n. 825, Fl. Alg. p. 529.

*Hab. in caulis exsiccatis Inulinae viscosae* «Algeria» (**Tab. CLIV, fig. 1.**

— Ex specim. orig. a cl. Hariot Musaei Parisiensis benevole commun.).

Perithecia gregaria vel subsparsa,  $\frac{1}{4}$  mm. d.; asci 65-75  $\approx$  12-14; sporidia 18-22  $\approx$  6-8. Affinis *Massarinae*.

**Metasphaeria squamata** (C. et Ell.) Sacc. Syll. Pyr. II, p. 167. *Sphaeria squamata* C. et Ell. Grev. VII, p. 10.

*Hab. in ramis Abietis* «New Jersey Amer. bor.». (**Tab. CLIV, fig. 2.** — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 60-70  $\approx$  20-24, paraphysati; sporidia 32-34  $\approx$  8.

**Metasphaeria papulosa** (Dur. et Mont.) Sacc. Syll. Pyr. II, p. 168. *Sphaeria papulosa* Dur. et Mont. Syll. n. 870 et Fl. Alg. I, p. 536. *Met. papulosa* f. *vidarii* Sacc. F. Rom. n. 27, f. 4. Suppl. Tot. Syll. I, p. 838 *Metasphaeria Janiculi* Pass. Diagn. F. N. I, n. 58, Sacc. I. c. p. 838.

*Hab. in foliis semicorruptis Citri, Hederae et Smilacis mauritanicae* in «Algeria» et *Evonymi japonici* «Roma It. mediae». (**Tab. CLIV, fig. 3.** — Ex specim. orig. in *Citro* a cl. Hariot Musaei Parisiensis benevole comm. cum iis orig. *M. Janiculi* comparatis. Forma *vidarii* non mihi videtur a typo distincta.

Perithecia innata 150  $\mu$ . d.; asci 60-70  $\approx$  12; sporidia 20-22  $\approx$  5.

Formae sequentes, anterius ut species distinctae servatae, inter se, et a typo, saepe tam paullo differunt, ut separatio quaedam subinde valde ardua sit.

**Metasphaeria papulosa** f. **Marcucciana** *Massaria Marcucciana* Auersw. et Rab. Fungi Eur. n. 2665 (absque diagnosi) *Massarina Marcucc.* Sacc. Syll. Pyr. II, p. 155.

*Hab. ad culmos Ampelodesmi tenacis (?)* «Alghero Sardiniac». (**Tab. CLV,** fig. I. — Ex specim. orig. in Rab. I. c.).

Perithecia subsparsa, epidermide tecta, membranacea,  $\frac{1}{4}$ - $\frac{1}{5}$  mm. d.; asci 48-55  $\approx$  14-18; sporidia 16-20  $\approx$  6-7.

**Metasphaeria papulosa** f. **calamina** (D. et M.) Sacc. Syll. Pyr. II, p. 173,

*Sphaeria calamina* Dur. et Mont. Syll. n. 851, Fl. Alg. p. 532. *Leptosphaeria spatharum* Ces. in Rab. F. Eur. n. 2530. *Metasph. spatharum* Sacc. Syll. Pyr. II, p. 179. Bacc. ed Av. Contr. Mic. Rom. p. 13.

*Hab. in culnis Arundinis mauritanicae* «Bouzarah Algeriae» et in *spathis Chamaeropis excelsae* in Horto botanico Neapolitano *et Chamaer. humilis* «Villa Corsini, Romae Ital. mediae». (**Tab. CLV, fig. 2.** — Ex specim. orig. a cl. Hariot Musaci Botan. Paris. benevole missis).

Perithecia sparsa, minuta,  $\frac{1}{5}$  mm. d., globoso-conoidea, papillata; asci 65-75  $\approx$  14-16; sporidia 18-20  $\approx$  8-9.

**Metasphaeria papulosa** forma **epipteridea** (Cooke et Harkn.) Sacc. Syll. Pyr. II, p. 183 (ut species), Ellis et Ev. North Am. Pyr. p. 390, *Sphaeria epipteridea* C. et H. in Grevillea 1880, p. 8.

*Hab. in stipitibus siccis Pteridis aquilinae* «California Amer. bor.» (**Tab. CLV, fig. 3.** — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia tecta, erumpentia, semiimmersa vel fere superficialia,  $\frac{1}{4}$  mm. d.; asci 50-60  $\approx$  11-13; sporidia 16-19  $\approx$  6-7.

A typo vix differt peritheciis subinde fere superficialibus et sporidiis paullo minoribus.

**Metasphaeria papulosa** forma **Debeauxii** (S. et R.) Sacc. Syll. Pyr. II, p. 182 (ut spec.), *Leptosphaeria Debeauxii* Sacc. et Roum. Mich. II, p. 318, *Metasphaeria pinnarum* (Pass.) Sacc. Syll. Pyr. II, p. 179 (ut species), *Leptosphaeria pinnarum* Pass. Microm. it. n. 8.

*Hab. ad pinnas fracidas Phoenicis dactyliferae in Liguria (Bordighera) It. bor. et in costa foliorum Chamaeropis humilis circa Oran Algeria».* (**Tab. CLVI, fig. 1.** — Ex specim. orig. *Met. Debeauxii* a cl. Sacc. benevole comm. cum originalibus *Met. pinnarum* comparatis).

Perithecia linearis-seriata, subglobosa, ostiolo nitidulo obtuso; asci oblongi, medio subventricosi, recti, 53-55  $\approx$  10; sporidia disticha, fusiformia recta, 4-septata, loculo intermedio paullo crassiore, hyalina, 17-18  $\approx$  5.

Formam hanc in tabulis non delineavimus.

**Metasphaeria papulosa** forma **anisometra** (C. et H.) Sacc. Syll. Pyr. II, p. 163 (ut sp.), Berl. Roum. et F. Sacc. Fungi Lusit. II, in Rev. Myc. 1889, p. 121 (ut sp.), *Sphaeria anisometra* C. et H. in Grev. 1881, p. 86, *Metasph. algeriensis* Sacc. et Berl. in Rev. Myc. 1886, pag. 34. tab. LVII, fig. 3, Sacc. Suppl. Syll. Pars I, p. 827, *Sphaeria peruviana* Cooke Grev. VIII, p. 35, *Metasph. peruviana* Sacc. Syll. Pyr. II, p. 164, *Metasph. Ferulae* Bacc. et Avetta Contr. Mic. Rom. p. 13, tab. XVI, fig. 4. Sacc. Suppl. tot. Syll. I, p. 829.

*Hab. in caulinis ramulisque plantarum variarum e. gr. Cirsii, Mesembryanthemi, Vitis, Menispermi, Mimuli, Lonicerae, Cupressi, Eucalypti, Rubi, Dracaenae, et in leguminibus Robiniae in «Amer. bor. Algeria et Italia».* (**Tab.**

**CLVI, fig. 2.** — Ex specim. orig. in Ellis North Am. Fungi n. 890, in *Cupresso* viventibus cum aliis multis comparatis).

Perithecia gregaria, subinde connata,  $\frac{1}{5}$  mm. d.; asci 60-70  $\times$  12; sporidia 20-25  $\times$  6-8, inaequaliter biconoidea parte superiori crassiori, tricellulari, inferiori bicellulari.

In specimin. (orig.) in *Eucalypto* viventibus a cl. Cooke benevole comm., tantum inveni *Euchnosphaeriam pinetorum*.

Dimensiones sporidiorum *Metasphaeriae Ferulae* a Baccarini et Avetta (l. l. c. c.) expositae, minime veritati respondent, sed paullo inferiores sunt, nam ex speciminibus originalibus, quae examinare mihi licuit, numeros hos excerpti «sporidia 20-22  $\times$  6-7».

**Metasphaeria californica** (Cooke et Harkn.) Berl., *Sphaeria californica* Cooke et Harkn. in Grevillea XIII, p. 20, *Leptosphaeria californica* Berl. et Vogl. Addit. Vol. I-IV, Syll. p. 137, Sacc. Suppl. Syll. I, p. 777.

Hab. in ramis et foliis Araucariae imbricatae, Sarothamni, Rhododendri, Evonymi in «California». (**Tab CLVI, fig. 3.** — Ex specim. orig. a cl. Cooke copiose communicatis).

Perithecia dense vel densissime gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 75-85  $\times$  15-18, sursum attenuati, basi ventricosi; sporidia 22-25  $\times$  6-7, hyalina (non fusca ut in Cooke et Harkn. ll. cc.).

Valde affinis *Met. papulosae*, cuius fere varietas videtur.

**Metasphaeria Caninae** Pass. Diagn. Funghi nuovi IV, n. 21. Sacc. Suppl. Tot. Syll. I, p. 832.

Hab. in aculeis Rosae caninae «Vigheffio prope Parma Ital. bor.». (**Tab. CLVII, fig. 1.** — Ex specim. orig. a cl. Passerini benevole comm.).

Perithecia sparsa, basi fibrillosa, globoso-depressa,  $\frac{1}{4}$  mm. d.; asci 75-85  $\times$  12-14; sporidia 28-32  $\times$  8-10, hyalina. Ob sporidiorum fabricam *Met. trichostomae* affinis. Exemplaria originalia pauca examen diligens ostioli mihi agere non permiserunt.

**Metasphaeria trichostoma** (Pass.) Sacc. Syll. Pyr. II, p. 158, Pass. in Erb. critt. It. Ser. II, n. 1466 *Leptosphaeria trichost.* Pass. in Thuem Myc. Univ. n. 1455, *Lept. eburnea* Niessl Hedw. 1881 p. 98, *Met. eburnea* Sacc. Syll. I. c. p. 162. *Sphaeria defodiens* Ellis Bull. Torr. Bot. Club. 1881 p. 90, *Met. defodiens* Sacc. Syll. I. c. p. 181, Ellis et Ever. N. Am. Pyr. p. 389.

Hab. ad caules ramosque aridos Chondrillae junceae et Junci? «Vigheffio» prope «Parma It. bor. in Germania et Iowa New Jersey Amer. bor.». (**Tab. CLVII, fig. 2.** — Ex specim. orig. in Erb. critt. et Myc. Univ. ll. cc.).

Perithecia minuta,  $\frac{1}{4}$  mm. d., apice fasciculo setarum instructa; asci 100-110  $\times$  14-16; sporidia 26-29  $\times$  7-9.

Affinis *Metasp. papulosae* f. *calaminae*, a qua differt in primis ostiolo sectoso et sporidiis saepius pseudo-quinqueseptatis. *Met. defodiens*, secundum spe-

cimina authentica, in Ellis North Amer. Fungi edita n. 889, peritheciis ostiolis fasciculo setarum instructis gaudet, qua de re, et propter identicam sporidiorum fabricam magnitudinemque, non ab hac specie, seu *Met. trichostoma*, rite separanda videtur. Matrix vero *Met. defodientis*, sec. cl. Ellis, est *Spartium junceum* dum illa *Met. trichostomae*, sec. beat. Passerini, est *Chondrilla juncea* sed plantae haec in sicco valde inter se similes et facile una pro alia sumenda. In sporidiis *Met. defodientis* setulam apicalem non vidi.

**Metasphaeria trichostoma** var. **xerophilla** Sacc. et Malbr. Fungi Gall. ser. V, p. 2166. Suppl. Syll. I, p. 827 (ut species).

*Hab. in caulis emortuis Silenes Otitis* « Rouen Galliae » et *Lycopridis arvensis* in « Hollandia ». (Exemplaria in *Lycops.* benevole mihi communic. cl. domina la Destrée). (**Tab. CLVII, fig. 3.** — Ex specim. orig. a cl. Saccardo benevole communic.).

Perithecia sparsa, minuta,  $\frac{1}{5}\text{-}\frac{1}{4}$  mm. d., ostiolo setoso instructa; asci 85-95  $\times$  14-17; sporidia primo triseptata, dein quadri- et demum quinqueseptata, 24-27  $\times$  6-8, hyalina.

A typo vix differt sporidiis basi paulo acutioribus. An satis?

**Metasphaeria stictostoma** (B. et C.) Berl. *Sphaeria stictostoma* B. et C. Norh Am. Fungi n. 95. *Leptosphaeria stictostoma* Sacc. Syll. Pyr. II, p. 84.

*Hab. in caulis herbarum* « Connecticut » Amer. bor. ». (**Tab. CLVII, fig. 1.** — Ex specim. orig. a cl. Cooke benevole comm.).

Perithecia sparsa, ostiolo penicillatim setoso,  $\frac{1}{3}$  mm. d.; asci 65-75  $\times$  12-14; sporidia 20-23  $\times$  6-7.

Affinis *Metasphaeriae trichostomae*, a quas differt sporidiis minoribus, quinqueseptatis. An potius varietas?

**Metasphaeria Bellynckii** (West.) Sacc. Syll. Pyr. II, p. 179. *Sphaeria Bellynckii* West. Bull. Ac. Bruxell. 1959, VII, n. 44, p. 366, fig. 13. *Pleospora Convallariae* Fuck. Symb. p. 138. *Leptosphaeria Convallariae* Sacc. Mich. I, p. 38, Fungi it. tab. 272. Non *Leptosph. Bellynckii* Winter Pilze II, p. 452 et Thuem. M. Un. n. 1061.

*Hab. in caulis emortuis Convallariae Polygonati, in « Belgio, Germania, Helvetia et Italia ».* (**Tab. CLXII, fig. 2** — Ex specim. italicis a cl. Sacc. benevole comm.).

Perithecia sparsa, minuta 150-200  $\mu$ . diam.; asci 65-75  $\times$  10-12; sporidia 25-28  $\times$  4, quadrisseptata hyalina.

Specimina Winteriana sporidiis triseptatis pallide luteolis gaudent, quare cum specie Westendorpiana minime congruunt. (Cfr. etiam Winter Pilze I. c.).

**Metasphaeria Kali** (Fabr.) Sacc. Supp. Tot. Syll. p. 828. *Leptosphaeria Kali* Fabr. Sphér. Vaucl. II, p. 50, tab. I, fig. 22.

*Hab. ad caules aridos Salsolae Kali* « Vaucluse Galliae ». (**Tab. CLVIII, fig. 3.** — Ex adumbratione fabreana I. c.).

Perithecia sparsa, globoso-deplanata, epidermide tecta,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d., ostiolo brevi papillulato, erumpente; asci late clavati, brevissime et crasse stipitati, octospori, 100-110  $\times$  15-18; sporidia subdisticha, fusoidea, 4-septata ad septum secundum constrictula, hinc ovoidea illinc conoidea et longiora, 25-30  $\times$  7-8.

Haec species certe affinis *Met. trichostomae* et si ostiolo setoso gaudet ab hac, meo sensu, non rite separanda est. Specimina originalia investigare nequivi.

**Metasphaeria Cerletti** (Speg.) Sacc. Syll. Pyr. II, p. 167. *Leptosphaeria Cerletti* Speg. Ampel. it. n. 30, tab. XXX. Mich. I, p. 398.

*Hab. in sarmenis Vitis cordifoliae* « Conegliano Ital. bor. ». (Tab. CLIX, fig. 1. — Ex Ampel. it. l. c.).

Perithecia gregaria, ostiolo penicillatim setoso; asci 120-140  $\times$  18-20; sporidia 25-37  $\times$  10.

Adumbrationem spegazzinianam, quamquam rudem, fideliter retuli. Est fortiter dubitandum speciem hanc sporidiis clavatis ostioloque setoso, a *Met. stictostoma* (quae ut forma *M. trichostoma* potius habenda) haud rite separanda sit. Majores videntur sporidia, sed dimensiones Spegazzinianas terque quaterque inveni excedentes.

**Metasphaeria gigantaspora** (Rehm) Berl. *Massarina gigantospora* Rehm in Voss. Mat. Pilz. Krainz, p. 216, Sacc. Supp. Syll. Pars. I, p. 825.

*Hab. in caulis siccis Genistae sagittalis prope* « Adelsberg, Carnioliae ».

**Tab. CLIX, fig. 2.** — Ex specim. orig. a cl. Rehm benevole comm.).

Perithecia sparsa, in macula dealbata immersa, 300  $\mu$ . diam., globoso-depressa, sicca apice collabentia, membranacea; asci pauci 120-130  $\times$  70-75; sporidia 65-70  $\times$  19-22, sine muco (non 8  $\mu$ . crass. ut in Syll. l. c.).

Valde affinis, et verisimiliter tantum var. *Met. pachyascae*, quae est *Sphaerul.*

**Metasphaeria brunnea** (Cooke) Sacc. Syll. Pyr. II, p. 162. *Pleospora brunnea* Cooke (var.) in Rav. F. Am. exsicc. n. 684.

*Hab. in caule* Foeniculi « Aiken Carol. Am. bor. ». (Tab. CLX, fig. 1. — Ex spec. orig. in Rav. l. c.).

Perithecia gregaria 150-180  $\mu$ . d.; asci 80-90  $\times$  14-16; sporidia 20-24  $\times$  5-6, perfecte hyalina.

**Metasphaeria torulispora** Berl. Champ. Frioul. p. 12, tab. IX, fig. 7. Sacc. Suppl. Tot. Syll. I, p. 830.

*Hab. in caule exsiccatu plantae herbaceae cuiusdam* « Osoppo agri foroju-liensis Ital. bor. ». (Tab. CLX, fig. 2).

Perithecia sparsa, primo epidermide tecta, dein emergentia, primo globoso-conoidea dein sursum complanato-collapsa, coriacella,  $\frac{1}{2}$  mm. diam. ostiolo non setoso; asci 150-160  $\times$  18-20; sporidia 32-35  $\times$  8-10, (sine muco), hyalina, muco obvoluta.

**Metasphaeria crassiuscula** Sacc. et Briard Florule de l'Aube p. 344.

*Hab. in calamis siccis, putrescentibus Junci « Morge - du Mesnil, prope Gérosdot Galliae ».* (Tab. CLX, fig. 3. — Ex specim. orig. a cl. Sacc. benevole comm.).

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 60-70  $\times$  20-24; sporidia 20-24  $\times$  8-9.

Pulchra et ab omnibus facile distinguenda sporidiis ovoideis crebre septatis.

**Metasphaeria Caraguatà** Speg. Fungi Guar. Pug. I, n. 227. Sacc. Suppl. Syll. I, p. 840.

*Hab. ad folia languida Bromeliae serrae (vulgo Caraguatà) in silvaticis prope « Guarapi Amer. austr. ».* (Tab. CLXI, fig. 1. — Ex specim. orig. a cl. Hariot benevole comm.).

Perithecia in macula brunneola sparsa, ostiolo vix perspicuo, fere astoma 150-180  $\mu$ . diam.; asci 55-65  $\times$  10-12; sporidia 25-28  $\times$  5-6.

**Metasphaeria scirpina** (Wint.) Sacc. Syll. Pyr. II, p. 182. *Leptosphaeria scirpina* Winter Hedw. 1872, p. 148. Die Pilze II, p. 454.

*Hab. ad calamos aridos Scirpi lacustris prope « Bozen Tyroliae ».* (Tab. CLXI, fig. 2. — Ex specim. orig. a cl. J. Urban Musaei berolinensis benevole communicatis).

Perithecia sparsa, primo epidermide tecta, dein semilibera,  $\frac{1}{4}$  mm. d.; asci 120-130  $\times$  18-22; sporidia muco obvoluta 28-32  $\times$  8 (sine halone mucoso).

**Metasphaeria Roumegueri** Sacc. Syll. Pyr. II, p. 181. *Leptosphaeria Roumegueri* Sacc. Mich. II, p. 62 ? *Ampullina rubella* Quél. F. G. n. 288.

*Hab. in tela e Phormio contexta, putri, « Toulouse Galliae ».* (Tab. CLXII, fig. 1. — Ex specim. orig. a cl. Sacc. benevole comm.).

Perithecia erumpenti-superficialia, sparsa vel hinc inde gregaria,  $\frac{1}{4}$  mm. d.; asci 100-120  $\times$  14-18; sporidia 32-38  $\times$  6-7, strato mucoso obducta.

Affinis *Metasphaeria hyalosporae* et *M. scirpinae*.

**Metasphaeria hyalospora** Sacc. Syll. Pyr. II, p. 179, Ell. et Ev. N. Am. Pyr. p. 390. *Leptosphaeria hyalospora* Sacc. Fungi Ven. Ser. II, 323, Fungi it. tab. 273.

*Hab. in culmis putridis Zeae Maydis, Panicis crusgalli et Sabal Palmetto in Italia bor. et Amer. septentr.* (Tab. CLXII, fig. 2. — Ex specim. orig. a cl. Sacc. benevole comm. cum Ellisianis compar.).

Perithecia subgregaria, erumpenti-subsuperficialia, ostiolo conico subinde crassiusculo, compresso, fere lophiostomaceo praedita, vix  $\frac{1}{2}$  mm. d.; asci 90-100  $\times$  12-14; sporidia 28-32  $\times$  6-7, transverse 5-7 (plerumque 6) pseudo-septata, hyalina.

Ad *Lophiostomaceas* ostiolo subinde compresso vertit, et meo sensu ab eis haud rite separanda.

## Species dubiae, excludendae vel non examinatae.

*Metasphaeria sphaerelloides* Pass. Matura sporidiis flavo-virentibus gaudet, quare ad *Leptosph. customam* pertinet. (Ex specim. orig.). *Met. grandispora* ostiolis e latere distincte compressis, *Lophiotrema* adscribenda et *Loph. Cadubriae* propinquia. (Ex specim. orig. *Metasphaeria Böhmeriae* (Rab.) Sacc. non vidi *M. Thalictri* (Wint.) Sacc. sporidiis coloratis gaudet, quare ad *Leptosp. pertinet*. (Ex specim. orig.) *Metasph. bitorulosa* (B. et Br.) Sacc. In specim. orig. inveni copiose tantum *Didymellam* sporidiis 18-14 x 4-5. An eadem? *Metasph. rustica* (Karst.) Sacc. in specim. orig. inveni fungillum immaturum verisimiliter *Leptosph. quamdam*. *Met. macrospora* (Fuck.) Sacc. Specimina thuemeniana tantum examinavi et ad *Leptosph. Doliolum* pertinere agnovi. *Met. agminalis* (Lèv.) Sacc. Non vidi *Met. Senecionis* (Fuck.) Sacc. Id. *Met. metuloidea* (K. et C.) Sacc. Specim. orig. sterilia inveni. *Met. brachiata* (K. et C.) Sacc. specim. orig. frustra investigavi. *Met. Heliathemi* (Auersw.) Sacc. Non vidi. *Met. scotophila* (Dur. et Mont.) Sacc. sec. specim. orig. est aptius *Diaporthe* sporidiis plasmate raro 4-partito. *Met. bucura* (C. et Ell.) Sacc. Mihi videtur forma juvenilis *Loph. simillimi* quod in specim. orig. frequentissime inveni. *Met. Sacculus* (B. et B.) Sacc. Non vidi. *Met. eburnea* (Niessl) Sacc. Id. *Met. dissiliens* (C. et Ell.) Sacc. Est *Leptosph.* sporidiis amoene slaveolis (Ex specim. orig.) *Met. canadensis* (De Not.) Est *Lept. Erigerontis*; sporidia in specim. orig. sunt amoene lutea, 5-septata 40-44  $\mu$ . long., plasmate 8-10-partito. *Met. persistens* (B. et Br.) Specim. orig. steril. inveni sed e facie potius ad *Diaporthem* spectant. *Met. sublanosa* (Cooke) Sacc. Est *Lasiosph.* *Met. depressa* (Fuck.) Sacc. Non. vidi *Met. apiculata* (Wallr.) Sacc. sec. Winter esset *Gnomonia*; in specim. fuckelianis (Fungi rhen. n. 918) nihil inveni nisi *Ascochytae* sp. *Met. Ashwelliana* (Curr.) Sacc. Specim. originalia tempore injuria interciderunt. *Met. staphylina* (Peck.) Sacc. non vidi. *Met. aulica* (C. et E.) Sacc. In specim. orig. *Leptosph.* modestam tantum inveni. *Met. brachyteca* (B. et C.) Sacc. Est *Sphaerulina intermixta* f. *Rosae*. *Met. scalaris* (Dur. et Mont.) Sacc. est. *Zignoella* (Cfr. Icon. Fung. Fasc. III.) *Met. Acerum* (Criè) Sacc. non vidi *Met. Acuum* (Cooke et Harkn.) Sacc. Id. *Met. Semen* (C. et P.) Sacc. Id. *Met. palustris* (Mont.) Sacc. id. *Met. pachyasca* (Niessl) Sacc. est *Sphaerulina*. *Met. Peckii* (Speg.) Sacc. est *Sphaerella*. Sporidia semper didyma, guttuligera observavi; ascii sunt aparaphysati, roseolati. (Ex specim. orig.) *Met. neglecta* specim. a cl. Rostrup communic. ad *Pleospor.* (Cathar.) spectant, P. Rostrupii vocandam. *Met. discors* (E. et E.) S. est. *Lept. affinis L. gallicolae*. *Met. Graminum* Sacc. sporidia sunt viridula, quare species ad *Lept. Ophiopog. f. Graminum* pertinet. *Met. Avenae* (Auersw.) Sacc. non vidi. *Met. Cattanei* Sacc. id. *Met. recutita* (Fr.) Sacc. id. *Met. Arundinariae* (Cooke) Sacc. In specim. orig., ex Herb. Parisiensi, sporidia uniseptata inveni. Perithecia vero sunt minutissima, papillata ergo species aptius inter *Hyalodidymas* ponenda, et haud errore gravi in genere *Stigmatae*. *Met. Carectorum* (R. et C.) Sacc. Non vidi. *Met. Junci* (Oud.) Sacc. id. *Met. iridicola* Sacc. id. *Met. Iridis* (Desm.) Sacc. Specim. orig. a cl. Hariot missa, sterilia inveni, notarisiana vero, ad «Caen» lecta, *Sphaerulinae* adscribenda. *Met. craterium* (Mont.) Sacc. non vidi. *Met. rachidis* (Pass.) Sacc. id. *Met. sabuletorum* (B. et Br.) Sacc. In specim. orig. *Ascochyt. perforantem* inveni. *Met. Oryzae* (Gatt.) Sacc. Non vidi. In specimin. Herb. Musaei Romani, stat. spermgon. inveni. *Met. rimularum* (Cooke) Sacc. In specim. orig., tantum *Scirrhiam* inveni. *Met. puccinioides* (Speg.) Sacc. non vidi. *Met. Debeauxii* (S. et R.) Sacc. id. *Met. Fur* (Ebr.) Sacc. id. *Met. profuga* (Ehr.) Sacc. id. *Met. Lycopodii* (B. et C.) Sacc. id. *Met. Plegmariae* (Ces.) Sacc. id. *Met. Stereocaulorum* (Arn.) Sacc. Specim. orig., a cl. Hariot comm., sterilia inveni. *Met. Psorae* (Anzi) Sacc. non

vidi. *Met Lepidiota* (Anzi) Sacc. non vidi *Met. cetraricola* (Nyl.) Sacc. Sec. cl. Karsten est *Sphaerulina*. *Met. Lichenis-sordidi* (Mass.) Sacc. Non vidi. Mihi dubia. Sec. Körb. est. lichen, *Met. rothomagensis* (Roum.) est. *Lophiotrema vagabundum* ex specim. orig. *Met. Origani* Mout. non vidi *Met. humulina* (Peck) Sacc. id. *Met. Gei Rich.* id. *Met. primulicola* Pat. id. *Met. depressula* Sacc. et Roum. Est. *Leptosph. rubicunda*; sporidia sunt flavo-veola 3-septata, loculo secundo inflatulo. *Met. macrospora* Speg. aptius ad *Sphaerulina* adscribenda. *Met. cryptospila* (Berl.) Sacc. non vidi sed mihi dubia. *Met. tinctoria*. Pass. Ex specim. orig. nihil eruere potui, inveni tantum, et copiose, *Didymosphaeriam Spartii*. *M. Spartii* Brunaud non vidi. *M. Liriodendri* Pass. id. *M. Robergia* Sculz. et Sacc. id. *M. Massarina* Sacc. est *Calospora* nam perithecia sunt vasoideo-aggregata, minutissima ita ut acervulus totus  $\frac{3}{4}$  mm. diam. metiatur; sporidia vero subinde loculo e mediis longitudinaliter diviso ad *Hyalodictyas* speciem appropinquant. *Met. Peridermii* Pass. non vidi. *M. cavernosa* (E. et E.) Sacc. id. *M. slavonica* S. et S. id. *M. sarmenticola* Pass. ex specim. orig. nihil eruere potui. *M. Sambuci* Pass. sporidiis luteo-coloratis gaudet et ad *Leptosph. dumetorum* adscribenda. *M. Forsythiae* Pass. specim. orig. sterilia inveni. *Met. constricta* Bres. ascii sunt sexdecemspori et sporidia etiam longitudinaliter divisa, quare species ad *Caproniam* pertinet. *Met. conformis* (B. et C.) Sacc. sporidia sunt lutea; species ad *Leptosph. Doliolum f. ramicolam* pertinet. *M. rubida* E. et E. non vidi *Met. Lonicerae* Fautrey id. *Met. plagarum* (C. et H.) Sacc. Specim. orig. sterilia inveni sed e facie potius *Zignoella* designant. *M. subsimilis* Schulz. et Sacc. non vidi. *M. annulata* Pat. id. *M. Lieuryana* Malbr. et Le Bret. Ex specim. orig. nihil eruere potui. *Met. Molleriana* (Niessl) Berl. et Vogl. non vidi. *Met. hederaefolia* (Cooke) Sacc. Specim. orig. sterilia inveni. *Met. alba* Pass. est. *Leptosph. eustoma f. Salicinarum*, nam sporidia sunt luteola. *Met. pampinea* Pass. est *Lept. eust. f. Vitis* nam sporidia sunt luteola. *Met. Macclurae* (E. et E.) Sacc. non vidi. *M. Idesiae* Pass. Est. *Lept. eustoma*. *M. palmicola* Pat. non vidi. *Met. Chamaeropis* Pass. est. *Lept. eustoma f. Chamaeropis*, nam sporidia sunt luteola. *M. Sparganii* Fautrey non vidi. *M. minor* Schroet. id. *M. platyspora* Pass. id. *M. borealis* Rostr. Ex specim. orig. nihil eruere potui. *Met. acorella* (Cooke) B. et V. non vidi. *Met. nervisequa* (Wint.) B. et V. id. *Met. sepulta* Pass. Est. *Leptosph. eust.* *Met. musana* Mont. non vidi. *Met. ceratotheca* (C.) Sacc. Certe non *Metasphe*; in specim. orig. tantum inveni subicum crustaceum *Chaetosphaeriae* ad instar. *M. Zeae* Pass. Sporidia luteola *Leptosph. eust. f. Zeae* designant. *M. Lolii* Pass. est *Lept. eustoma*. *M. Lindsayana* (Curr.) Sacc. non vidi. *M. albescens* Thuem. id. *M. insularis* Speg. id. *M. stenotheca* E. et E. non vidi. *M. nigro-tingens* Mont. id. *M. leptogiphila* (Minks) Berl. et Vogl. id. *Met. crassiuscula* Sacc. et Briard (Florul Aube p. 314). Ex specim. orig. nihil eruere potui. *M. Marchaliana* Sacc. sporidia sunt viridula, 24-28  $\times$  4-6 et potius *Leptosph. arundinac.* designant.

## Clavis analytica generum Sphaeriacearum Hyalophragniarum.

### I. Simplices.

*a* Perithecia erostrata.

*A* Cortice tectae vel demum erumpentes.

*§* Perithecia pariete crassa praedita.

Sporidia halone mucosa cincta

**Massarina**

*§§* Perithecia membranacea.

*†* Caulicolae vel ramicolae, pseudostromate carentes.

Asci paraphysati, non roseolati, sporidia mutica

**Metasphaeria**

Asci aparaphysati, saepius roseolati, sporidia mutica

**Sphaerulina**

Asci paraphysati, non roseolati, sporidia utrinque setigera

**Ceriosporella**

*††* Foliicolae, perithecia phyllogena, pseudostromate tecta.

Asci aparaphysati.

**Hypospila**

*†††* Lignicolae.

Perithecia cortice duriore vel ligno immersa; sporidia plures septata **Saccardoella**

*AA* Superficiales vel subsuperficiales.

*§* Hirsutae vel byssyzedæ.

*†* Perithecia vertice concoloria.

Perithecia majuscula, carbonacea; sporidia cylindracea apice in-crassata

**Bombardia** (1)

Perithecia majuscula, carbonacea; byso atra, grisea vel sulphurea tecta; sporidia cylindracea, elongata, hyalina, rarius fuscella

**Lasiosphaeria**

Perithecia majuscula carbonacea, byso atrâ tecta; sporidia breviuscula fusoidea

**Enchnosphaeria**

Perithecia exigua, membranacea, setis rigidis ornata, sporidia fu-soidea vel teretiuscula

**Acanthostigma**

*††* Perithecia vertice discoloria.

Perithecia majuscula, carbonacea; sporidia breviuscula, fusoidea

**Herpotrichia**

*§§* Glabrae vel glabriuscule.

Perithecia leva

**Zignoella**

Perithecia tuberculigera

**Winterella**

*b* Perithecia rostellata.

*§* Asci octospori, sporidia articulis non secedentibus

Perithecia lignicola carbonacea

**Ceratosphaeria** (2)

Perithecia foliicola, membranacea

**Gnomoniopsis**

*§§* Asci octospori; sporidia ad septum medium secedentia.

Perithecia membranacea, rostro laterali instructa

**Cryptoderis**

**II** Compositae, stromaticæ.

Stroma lenticiforme, spermogonio adnatum

**Melanops** (3)

Stroma valsiforme

**Calospora**

(1) In *Bomb. fasciculata* perithecia suut verticaliter evoluta glabra.

(2) Huc aptius locandum genus *Ceratosphaeria* inter *Phaeophragmia* censitum.

(3) Genus non a me visum, et mihi dubium.

**Claves analyticae specierum e generibus in hoc  
volumine contemptis (1)**

**Clavis analytica specierum generis « Schizostoma »**

*A* Species minores.

*a* Corticolae (in cortice truncorum)

§ Perithecia gregaria vel subgregaria

Asci 65-75  $\approx$  10; sporidia ovoideo-elongata 14-16  $\approx$  5; in cortice arborum in Africa

*S. microsporum*

§§ Perithecia sparsa

Asci 85-95  $\approx$  13-15; sporidia 28-30  $\approx$  8; in cortice *quercino* et *populinum* in It. bor. et Germania

*S. vicinum*

*aa* Ramicolae (in cortice ramorum)

Perithecia  $1\frac{1}{3}$  mm. d.; asci 90-110  $\approx$  14-22; sporidia 30-35  $\approx$  11-12, primo amoene fuliginea dein atro-fuliginea. In *Celtide Talea*, in Argentina

\**S. tuyutense*

*aaa* Lignicolae

Perithecia gregaria; asci 80-90  $\approx$  10-12; sporidia 22-25  $\approx$  5-7. In *Abete* in Styria

*S. vicinellum*

Perithecia laxe subgregaria; asci 80-90  $\approx$  15-18; sporidia 28-30  $\approx$  8-9. In *Salice* in Argentina

\**S. vicinissimum*

*aaaa* Culmicolae

Perithecia minuta; asci 145  $\approx$  13-21; sporidi. ovoidea, 15-23  $\approx$  6,5-11. In *Ammophila* in Belgio

\**S. ammophilum*

*AA* Specie quoad perithecia vel sporidia majores

*a* Corticolae

Perithecia sparsa  $1\frac{1}{2}$ - $2\frac{1}{3}$  mm. d.; asci 180-200  $\approx$  20-22; sporidia 36-40  $\approx$  10-12, concoloria; in cortice *quercino* in It. bor.

*S. Montellicum*

*aa* Lignicolae

Perithecia sparsa 1 mm. et ampl. diam.; asci 40-45  $\approx$  6-8; sporidia 14-16  $\approx$  3,5-4 apicibus hyalinis; in ligno putri in Ceylon

*S. pachytele*

*aaa* Culmicolae.

Perithecia minuta  $1\frac{1}{5}$ - $1\frac{1}{6}$  mm. d.; asci 150-160  $\approx$  30-35; sporidia ellip-tico-limoniiformia, apicibus subhyalinis, 30-40  $\approx$  10-15; In *Molinia* in It. bor.

\**S. Bellunense*

**Clavis analytica specierum generis « Lophiosphaera »**

*A* Sporidia mutica.

§ Sporidia monosticha.

(1) In Clave cuiusque generis, etiam species non examinatae, et quae e diagnosis genuinae videntur, suo loco inseruntur, et asterisco notantur; dubiae vero omittuntur.

Perithecia  $\frac{1}{3}$  mm. d. sparsa; asci 80-100  $\approx$  12; sporidia 23-26  $\approx$  7-9;  
in cortice quereino in It. bor.

*L. querecti*

Perithecia sparsa vel subgregaria,  $\frac{1}{4}$  mm. d.; asci 90-1000  $\approx$  10-12;  
sporidia 18-20  $\approx$  6-8; in *Salice* in It. bor.

*L. forojuiliensis*

§§ Sporidia disticha.

Perithecia modo sparsa modo dense conferta,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci  
100-110  $\approx$  10-12; sporidia 22-26  $\approx$  6; in *Helichryso* in Gallia

*L. Helichrysi*

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-130  $\approx$  16-18; sporidia 32-  
34  $\approx$  8 (rarius 40  $\approx$  7) in ligno *fagineo* pr. Münster

*L. Beekhausii*

Perithecia gregaria,  $\frac{2}{3}$  mm. d.; asci 170  $\mu$  longi; sporidia 50  $\approx$  7,5;  
in culmis *arundinaceis*? « Cayenna »

\**L. Schizostoma*

B Sporidia utrinque appendicula aucta.

§ Species lignicolae.

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  12; sporidia 30-35  $\approx$  6-7;  
in ligno *arborum nonnullarum* in Italia et Am. bor.

*L. lignicola*

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 70-80  $\approx$  10-12; sporidia 16-  
20  $\approx$  4-5; in ligno *quercino* in It. bor.

*L. pulveracea*

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 60-70  $\approx$  8; sporidia 16-20  $\approx$  5;  
in ramulis decorticatis *Ericae* in Gallia

*L. cristata*

Perithecia sparsa vel subgregaria,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 70-80  $\approx$  6-8;  
sporidia 18-20  $\approx$  4-5; in discis dolii vinarii *querceinis* in Am. bor.

*L. heterostoma*

§§ Species cauli-ramulicolae vel sarmenticolae.

Perithecia  $\frac{1}{2}$  mm. d., sparsa vel gregaria; asci 90-100  $\approx$  16-18; spo-  
ridia 26-28  $\approx$  6-8; in *Artemisia*, *Cytiso*, et *Globularia* in It. bor.

*L. anaxæu*

Perithecia  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d. subgregaria; asci 60-80  $\approx$  8-10; sporidia 15-  
18  $\approx$  4-5; in sarmentis *Rubi* in Italia et Germania

*L. Fuckelii*

Perithecia  $\frac{2}{3}$ - $\frac{1}{2}$  mm. d. discreta; asci 80  $\approx$  10; sporidia 20  $\approx$  8; in  
ramulis *Salicis* in Argentina

\**L. bonariensis*

**Clavis analytica generis « Lophiotrematis »**

A Species sporidiis triseptatis.

a In ligno denudato.

Perithecia  $\frac{1}{3}$  mm. d., gregaria hysterioideo-aperta; asci 60-70  $\approx$  5-8;  
sporidia 12-13  $\approx$  4-5; in ligno *Quercus* in Am. bor.

*L. hysterioides*

Perithecia gregaria, circiter  $\frac{1}{3}$  mm. d.; asci 80  $\approx$  5; sporidia 12-  
14  $\approx$  3-3,5; in ligno emortuo in Am. bor.

\**L. acquivocum*

Perithecia 250  $\mu$ . d., sursum collapsa; asci 90-100  $\approx$  12-15; sporidia  
18-24  $\approx$  5-6,5; in ligno *Amelanchieris* in Am. bor.

\**L. pallidum*

Perithecia gregaria 350-500  $\mu$ . d.; asci 150-175  $\approx$  15-17,5; sporidia  
30-40  $\approx$  7,5-10; in *Populo* in Am. bor.

\**L. vestitum*

b In cortice ramorum vel truncorum.

† Perithecia sparsa vel subgregaria.

Perithecia sparsa et subinde gregaria; asci 110-120  $\approx$  8; sporidia  
18-20  $\approx$  6; in plantis pluribus in fere tota Europa

*L. Nucula*

- Perithecia plus minusve crebre sparsa; asci 70-6-8 sporidia 20-  
23-3-4; in *Deutzia* in It. bor. *L. vigheffulense*
- Perithecia laxe gregaria; asci 80-10-12; sporidia 18-6. In *Ampe-*  
*lopside* in It. bor. *L. affine*
- †† Perithecia gregaria.
- Perithecia emergentia,  $\frac{1}{2}$  mm. d.; asci . . . ; sporidia 26-33-5-7;  
in *Populo* in Fennia *\*L. emergens*
- Perithecia minuta; asci 80-100-7-9; sporidia 24-30-3-4; in *Platano*  
in Germania *\*L. myriocarpum*
- e In culibus exsiccatis.
- † Perithecia sparsa vel subgregaria.
- Perithecia  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci cylindracei 90-110-8-10; sporidia  
22-25-4-6; in plantis pluribus in Italia Germania et Gallia *L. vagabundum*
- Perithecia minuta; asci cylindracei . . . ; sporidia 25  $\mu$ . longa; in  
*Scrophularia* in Am. bor. *\*L. Serophulariae*
- Perithecia  $\frac{1}{3}$  mm. d.; asci clavati . . . ; sporidia 38-42-7-8; in  
*Thymo* in Gallia *\*L. Thymi*
- Perithecia  $\frac{1}{3}$  mm. d.; asci oblongi, 67-8; sporidia 16-4; in *Sedo*  
in Germania *L. Sedii*
- Perithecia  $\frac{1}{3}$  mm. d.; asci cylindracei, 90-100-9; sporidia 20-25-  
5-6, appendiculata; in *Sio* prope Münster *L. leucosporum*
- †† Perithecia gregaria.
- Perithecia  $\frac{1}{3}$  mm. d.; asci cylindracei 100-110-15-18; sporidia 30-  
33-8-9; in *Aconito* in Hungaria et Tirolia *\*L. hungaricum*
- d In culmis exsiccatis.
- ‡ Peridhelia immersa.
- Perithecia  $\frac{1}{5}$ - $\frac{1}{3}$  mm. d.; laxe gregaria; asci 80-90-8-10; sporidia  
20-25-4-5; in *Arunline* in It. bor. *L. culmiphragum*
- †† Perithecia semiimmersa.
- Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; sparsa vel gregaria; asci 100-120-10-12;  
sporidia 35-40-6, demum 5-septata; in *Gramin.* in fere tota Europa *L. semiliberum*
- e In foliis Mono-vel Dicotyledonearum.
- Perithecia hypophylla, 200-260  $\mu$ . d.; asci 78-88-9, cylindracei;  
sporidia 14-16-5, appendiculata; in *Quercu coccifera* in Lusitania *\*L. Mollerianum*
- Perithecia sparsa minutissima; asci clavati, 70-80-10; sporidia 20-  
4-5; in *Quercu coccifera* in Algeria *\*L. stenogramma*
- Perithecia sparsa, 250-270  $\mu$ . d.; asci clavati, 60-66-9-10; sporidia  
strato mucoso obducta; in *Phoenice* in Belgio *\*L. phyllophilum*
- Perithecia sparsa minutissima; asci . . . ; sporidia 24-6-7; in *Ca-*  
*lamagrostide* in Germania *\*L. pusillum*
- f in fructibus plantarum vel in stromate hypoxylaceo.
- Perithecia sparsa, minima; asci 45-50-9-10; sporidia 18-20-5;  
ad glandes *Quercus Ilicis* in Gallia *\*L. glandium*
- Perithecia conferta, 350-500  $\mu$ . d.; asci 120-150-15-17,5; sporidia  
30-40-7,5; in *Hypoxylo Morsei* in Am. bor. *\*L. parasiticum*
- B Sporidia 5-pluriseptata

## a In ligno denudato.

- Perithecia laxe gregaria,  $\frac{1}{4}$ - $\frac{3}{8}$  mm. d.; asci 140-150  $\approx$  20-22; sporidia 25-40  $\approx$  12-14, quinqueseptata; in *Salice* in It. bor *L. littorale*  
 Perithecia laxe gregaria; asci saccato-clavati; sporidia 35  $\approx$  8, septemseptata; in ligno in Socotra \**L. Socotrae*  
 Perithecia 500-600  $\mu$ . d.; asci 120-130  $\approx$  26; sporidia 30-40  $\approx$  10; fuscoideo-subclavulata, 7-8-septata; in *Chiliotricho* in Fuegia \**L. australe*  
 Perithecia 500-800  $\mu$ . d.; asci 150-200  $\approx$  16-20; sporidia 45-52  $\approx$  7-8, fusoidea, utrinque acutissima, 9-11-septata; in *Chiliotricho* in Fuegia \**L. antarcticum*

## b In cortice ramorum vel truncorum.

## ‡ Perithecia sparsa vel subgregaria.

- Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  8-12; sporidia 24-28  $\approx$  6-7, quinqueseptata; in plantis pluribus in fere tota Europa et Am. bor. *L. praemorsum*  
 Perithecia  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d. eximio cristata; asci 120-130  $\approx$  10-12; sporidia 26-30  $\approx$  5-7, quinqueseptata; in plantis pluribus, in fere tota Europa *L. crenatum*  
 Perithecia  $\frac{1}{2}$ - $\frac{2}{3}$  asci 120-150  $\approx$  18-22; sporidia 35-40  $\approx$  7-9, septemseptata, mutica; in ramis *Ailanthi*, *Rhamni* et in ligno *salicino* in Italia et Germania *L. massurioides*  
 Perithecia ligno infossa; asci elongati; sporidia 40-56  $\mu$ . longa, 7-septata; in *Spirea* in Am. bor. \**L. Spireae*  
 Perithecia 200-290  $\mu$ . longa, 90-100  $\mu$ . crassa; asci 150-180  $\approx$  20; sporidia 60-65  $\approx$  10, constricto -9-10-septata; in *Vite vinifera* in Italia bor. \**L. Thunemenianum*  
 Perithecia  $\frac{1}{4}$  mm. d.; asci 120-130  $\approx$  14; sporidia 35-37  $\approx$  8, apendiculigera, 7-septata; in *Alio*, in caule *Rumicis* et in ligno corticato *salicino* in Italia, Gallia et Germania *L. auctum*  
 Perithecia  $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$  9-10; sporidia 22-28  $\approx$  4-7-5, elongato-fusoidea, 6-8-guttulata; in *Ampelopsiside* in It. bor. \**L. pygmaeum*  
 Perithecia 300-350  $\mu$ . d.; asci 110-120  $\approx$  10-12; sporidia 25-28  $\approx$  6-5-7, subfusoidea, 5-7-septata; in *Phyllesia*, *Fuchsia* et *Chiliotricho* in Fuegia \**L. magellanicum*

## † Perithecia gregaria.

- Perithecia 200-300  $\mu$ . d.; asci 120  $\approx$  8-10; sporidia 26-32  $\approx$  6, cylindraceo-fusoidea, 7-septata; in *Peruetia* in Fuegia \**L. fuegianum*  
 Perithecia  $\frac{1}{4}$  mm. d.; asci 80-90  $\approx$  7-8; sporidia 30-35  $\approx$  4-5, quinqueseptata; in *Corylo* in Gallia \**L. Coryli*  
 Perithecia 0,3 mm. d.; asci 90  $\approx$  8; sporidia 27  $\approx$  4, elongato-fusoidea 4-8-cellularia; in *Vite* in Hungaria \**L. ampelinum*  
 Perithecia  $\frac{1}{8}$ - $\frac{1}{2}$  mm. d.; asci 100-120  $\approx$  14-16; sporidia 40-45  $\approx$  7-8, fusiformia, 9-10-septata; in *Vite*, *Lonicera*, *Gali*, in Italia et Germania *L. alpigenum*

## c In caulibus vel culmis.

- Perithecia sparsa,  $\frac{1}{3}$ - $\frac{2}{3}$  mm. d.; asci 100-120  $\approx$  10-12; sporidia 24-26  $\approx$  6-7; in *Artemisia* in Gallia *L. Artemisiac*  
 Perithecia sparsa  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 120-140  $\approx$  20-25; sporidia 8-11-septata, 40-45  $\approx$  10-11; in culmis caulibusque in It. bor. *L. Cadubriac*

**Clavis analytica specierum generis « Lophiostoma »**

*A* Sporidia triseptata

*§* Sporidia disticha

Perithecia  $\frac{1}{3}$  mm. d., subgregaria; asci 60-70  $\approx$  6-7; sporidia 11-14  $\approx$  4.

In ligno *quercino* in Franconia

*L. parvulum*

Perithecia sparsa  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  14-16; sporidia 20-24  $\approx$  7-8 crasse quadriguttata. In corticibus in fere tota Europa. (Var *Rosacearum* in Rosaceis. Var *caespitosum* in Rubo)

*L. quadrinucleatum*

Perithecia  $\frac{1}{3}$  mm. d. sparsa; asci 95-105  $\approx$  12-14; sporidia 22-24  $\approx$  6,5-8. In ligno *Castaneae* in It. bor.

*L. rhopaloides*

Perithecia sparsa vel conferta,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100  $\approx$  10 (p. spor.) sporidia clavata; 25  $\approx$  6. In *Syringa* et *Crataego* in Gallia. (Valde affine *Loph. rhopaloides*)

\**L. fallax*

Perithecia laxe gregaria, 150-180  $\mu$ . d.; asci 90-120  $\approx$  9-12; sporidia 15-17  $\approx$  7. In sarmentis *Rubi* in Argentina

\**L. argentinum*

Perithecia sparsa; asci lineares; sporidia 15-17  $\mu$ . longa. In ligno e-mortuo in Am. bor.

\**L. triseptatum*

Perithecia sparsa, globosa, 250  $\mu$ . d.; asci 75-90  $\approx$  6-7; sporidia 18-22  $\approx$  3-3,5. In cortice *Vitis* in Am. bor.

\**L. stenostomum*

Perithecia sparsa vel gregaria; asci 90-95  $\approx$  10-11; sporidia 30  $\approx$  8-10. In *Corno* in Gallia

\**L. Corni*

Perithecia gregaria vel sparsa,  $\frac{1}{4}$  mm. d.; asci 80  $\approx$  8; sporidia 4-nucleata, uniseptata, 18-20  $\approx$  4-4  $\frac{1}{2}$ . In strematibus *Diatrypes* in Am. bor. (An *Schizostoma*?)

\**L. floridanum*

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  13-15; sporidia 1-septato-constricta, crasse 4-5-guttata, utrinque appendiculigera, pallide lutea. In *Staphylea* in Am. bor. (An *Lophiosphaer*?)

\**L. roseo-tinctum*

Perithecia sparsa, minuta; asci cylindracei, 70  $\approx$  9  $\approx$  11; sporidia 13-18  $\approx$  4-6. In *Plantagine* prope Münster, Germaniae

\**L. demissum*

*§§* Sporidia monosticha

Perithecia  $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  8-9; sporidia 16-20  $\approx$  6-7, raro septalo longit. divisa. In ramis *Pruni* in Am. bor.

*L. Pruni*

Perithecia 1 mm. diam., subinde ostiolo 1  $\frac{1}{2}$  mm. longo; asci 120-130  $\approx$  16-20; sporidia 20-22  $\approx$  8-10 sursum subdisticha. In cortice *Salicis* et *Quercus* pr. Münster, Germaniae

*L. isomerum*

Perithecia ut plurimum conferta,  $\frac{3}{4}$  mm. d.; asci 140-160  $\approx$  12-15; sporidia 28-31  $\approx$  9-11. In cortice *Tiliae* in Fennia

*L. fallacissimum*

Perithecia gregaria vel sparsa  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 150-170  $\approx$  12-15; sporidia 28-35  $\approx$  8-10; in ramis arborum plurium in Germania, Italia et Britannia

*L. Desmaziéri*

Perithecia laxe sparsa  $\frac{1}{3}$  mm. d.; asci 135-380  $\approx$  15-18; sporidia 21-28  $\approx$  9-10, rufo-fuliginea. Ad basim caudicum *Buxi* in Gallia

*L. maculans*

*B* Sporidia quinqueseptata

† Sporidia concoloria

§ Sporidia exappendiculata

- Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci 80-90  $\approx$  12; sporidia 18-22  $\approx$  6-7; in  
caulibus variis in Europa et Am. bor. (Adsum f. *majus* et f. *Sambuci*) *L. caulinum*
- Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d., sparsa, rarius gregaria; asci 70-90  $\approx$  12-14;  
sporidia 16-20  $\approx$  6-7; in caulibus ramis ue variis in Gallia *L. vagans*
- Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  16; sporidia 22-24  
5-6; in *Salice* in Am. bor. *L. erosum*
- Perithecia sparsa vel gregaria,  $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  12-14; spo-  
ridia 28-32  $\approx$  5-6; in culmis *Arundinis* in fere tota Europa *L. Arundinis*
- Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d., gregaria; asci 100-110  $\approx$  10; sporidia 22-  
26  $\approx$  6-8, in ramis plantarum in Italia, Germania, Gallia, etc. *L. pseudomacrostomum*
- Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d. gregaria; asci 120-140  $\approx$  12-14; sporidia  
26-28  $\approx$  7-8; in ligno *Salicum* et *Populorum* in Italia, Germania et  
Gallia *L. macrostomoides*
- Perithecia laxe gregaria, 300  $\mu$  d., asci 160-200  $\approx$  14-18; sporidia  
24-28  $\approx$  8-10; in ramis *Pinastri* in Moravia \**L. Pinastri*
- Perithecia subgregaria; asci cylindracei vel clavati; sporidia 20-23  $\mu$ .  
longa; in ramis *Salicis* in Am. bor. \**L. turritum*
- Perithecia prominentia, 180-200  $\mu$ . d.; asci subclavati; sporidia 20-  
25  $\mu$ . longa; in ramis *Cephalanthi* in Am. bor. \**L. prominens*
- Perithecia late sparsa,  $\frac{1}{5}$  mm. d.; asci 100  $\approx$  15; sporidia 22-25  $\approx$  6  
flava (saepius biseptata); in caulibus *Euphorbiae Characieae* in Gallia \**L. Characieae*
- Perithecia laxe sparsa,  $\frac{1}{4}$  mm. d.; asci 60-80  $\approx$  12-15; sporidia 30  $\approx$  9;  
in ramulis *Brachypodii* in Gallia \**L. Brachypodium*
- Perithecia subgregaria; asci cylindracei vel subclavati; sporidia 3-5-  
septata 50-60  $\mu$ . longa; in ligno putri in Am. bor. \**L. magnatum*
- Perithecia sparsa,  $\frac{1}{2}$ -1 mm. d.; asci subcylindracei; sporidia 36-40  $\approx$   
9-10; in ligno *Salicis* in Gallia \**L. Goudefroyi*
- Perithecia sparsa; asci 60-80  $\approx$  9-10; sporidia 21-24  $\approx$  4,5-5 (plerum-  
que 3-septata); in capsul. *Sarothamni* in Germania \**L. Spartii*
- Perithecia sparsa, minutissima; asci 100  $\approx$  10-12; sporidia 14-18  $\approx$  1-5  
(plerumque 3-septata) loculo quodam hinc inde longitudinaliter  
divis; in rimis trunci *Tiliae* in Bavaria \**L. Allescheri*
- Perithecia sparsa vel subapproximata; asci 50-75  $\approx$  8-9; sporidia 18-  
20  $\approx$  3,5-4; in pericarpio lignoso fructuum *Coryli Avellanae* in Gallia \**L. corylinum*
- Perithecia sparsa, 180-200  $\mu$ . d.; asci 55-60  $\approx$  12-15 (p. spor.); spo-  
ridia 20-25  $\approx$  4-5; in culmis in Fuegia \**L. fuegianum*
- §§ Sporidia utrinque appendiculata.
- Perithecia subgregaria  $\frac{1}{3}$  mm. d.; asci 70-80  $\approx$  12-14; sporidia 20-  
23  $\approx$  7; in ramis *Populi*, Mori et *Lonicerae* in It. bor. *L. perversum*
- Perithecia sparsa vel subgregaria,  $\frac{1}{3}$  mm. d.; asci 85-95  $\approx$  12-14;  
sporidia 24-28  $\approx$  6-8; in caulibus et ramis in Fennia, Britannia,  
Gallia, Italia *L. simillimum*
- Perithecia sparsa  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 70-80  $\approx$  10; sporidia 20-27  $\approx$  8-10  
(raro 35  $\approx$  18); in caulibus variis in tota fere Europa *L. insidiosum*

- Perithecia sparsa; asci clavati; sporidia 22 µ. longa; in ramis in Britannia  
*\*L. bicuspilatum*
- †† Sporidia fuliginea loculis extimis pallidioribus.  
 Perithecia  $\frac{1}{4}$  mm. d.; asci 150  $\times$  16-20; sporidia 30-35  $\times$  8-10; in ramulis *Corni* in It. bor.  
*L. oreophilum*
- Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 160-170  $\times$  14-18; sporidia 38-47  $\times$  12; in cortice *Mori* et *Iuglandis* in Gallia et It. bor.  
*L. elegans*
- Perithecia conferta,  $\frac{1}{3}$  mm. d.; asci 140-160  $\times$  16-22; sporidia 36-40  $\times$  8-10; in ligno *quercino* in It. bor. et Moravia  
*L. biforme*
- Perithecia  $\frac{1}{2}$ - $\frac{2}{3}$  mm. d.; sparsa; asci 90-110  $\times$  16-20; sporidia 36-38  $\times$  7-9; in cortice crassiore plantarum plurium in fere tota Europa et Am. bor. (Adest. var. *septemseptata* in *Silice* in It. bor.)  
*L. macrostomum*
- ††† Sporidia loculo infero (quasi caudâ) subhyalino terminata.  
 Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 90-100  $\times$  12-16; sporidia 26-30  $\times$  6-8; in caulibus *Lychnidis* et in ramis *Patiuri* in Italia, Germania et Gallia  
*L. caudatum*
- Perithecia subsparsa,  $\frac{1}{3}$  mm. d.; asci 110-120  $\times$  13-16; sporidia 26-30  $\times$  6-8; in culmis *Pbragmitis* in Italia, Gallia et Germania  
*L. daeryosporum*
- Sporidia septemseptata.
- † Sporidia concoloria.
- Perithecia laxissime gregaria,  $\frac{2}{5}$  mm. d.; asci 120-150  $\times$  14-16; sporidia 28-35  $\times$  8-11; in basi foliorum *Caricum* et culmis *Festucae* in It. bor. et Austria  
*L. collinum*
- Perithecia  $\frac{1}{3}$  mm. d., sparsa vel gregaria; asci 160-180  $\times$  22-25; sporidia 48-54  $\times$  10-12, diu hyalina, biconoidea, dei 7-septata; in cortice *Piri* in Germania  
*L. subcorticale*
- Perithecia aggregata,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 110-120  $\times$  16-18; sporidia 38-42  $\times$  8-10; in ramis *Sambuci* in California  
*L. congregatum*
- Perithecia subsparsa,  $\frac{1}{3}$  mm. d.; asci 90-110  $\times$  10-12; sporidia 22-26  $\times$  6-8; in cortice *Persicae* in It. bor.  
*L. endophlaeum*
- Perithecia  $\frac{1}{3}$ - $\frac{2}{3}$  mm. d. sparsa; asci 150-160  $\times$  16-18; sporidia 30-35  $\times$  7-9; in cortice et ligno *Salicium* in Germania et Gallia  
*L. Salicium*
- Perithecia sparsa,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. d.; asci 80-120  $\times$  16-18; sporidia 22-23  $\times$  8-10; in ligno acerino in Am. bor.  
*L. scelestum*
- Perithecia globosa,  $\frac{3}{4}$ -1 mm. d.; asci 150  $\times$  12; sporidia 2-26  $\times$  8-10; vel 20-22  $\times$  12-15, tri-septemseptata subinde loculis 1-2 septo longitudinali divisis; in cortice *Nyssae* in Am. bor.  
*L. subcollapsum*
- †† Sporidia loculis extimis pallidioribus.  
 Perithecia sparsa,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. d.; asci 140-150  $\times$  16-20; sporidia 38-42  $\times$  10-12; in ramis *Tiliae* in It. bor.  
*L. nigricans*
- Perithecia sparsa vel leniter gregaria,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 180-200  $\times$  16-20; sporidia 35-40  $\times$  8-12; in cortice arborum in tota Europa  
*L. Balsamianum*
- Perithecia late sparsa,  $\frac{1}{2}$  mm. d.; asci 80-100  $\times$  10; sporidia 26-36  $\times$  6-8 (saepius 5-septata) in truncis *Ericae* in Gallia  
*L. Ericarum*
- ▷ Sporidia pluriseptata (8-12-septata).
- § Sporidia concoloria. .

Perithecia $\frac{1}{2}$ mm. d., sparsa vel laxe gregaria; asci 300-350 $\approx$ 40-50; sporidia 95-100 $\approx$ 2; in cortice <i>Quercus</i> in It. bor.	<i>L. macrosporum</i>
Perithecia immersa; asci 150 $\approx$ 15; sporidia cymbiformia aut fusi- formia 9-septata, 38 $\approx$ 8; in culmis <i>Aruudiniis</i> in Algeria	<i>L. Crista-Galli</i>
§§ Sporidia loculis extimis pallidioribus.	
Perithecia sparsa, $\frac{1}{2}$ - $\frac{3}{4}$ (raro 1 mm. d.); asci 160-180 $\approx$ 12-18; spo- ridia 60-70 $\approx$ 9-12, 9-septata; in ligno <i>Mori</i> in Gallia	<i>L. Julii</i>
Perithecia sparsa vel subgregaria, maxima $\frac{3}{4}$ - $\frac{1}{3}$ mm. d.; asci 300- 330 $\approx$ 28-30; (vel 250 $\approx$ 45-50) sporidia 55-65 $\approx$ 16-20 e latere com- pressa; in cortice <i>Plantarum</i> in Europa	<i>L. excipuliforme</i>
Perithecia sparsa vel subgregaria; asci . . . . .; sporidia 40 $\approx$ 7,5, oblongo-clavata, 9-11-septata, apiculo hyalino terminata; in corti- cibus in Abyssinia	* <i>L. papillatum</i>

**Clavis analyticæ specierum generis « *Lophidium* »**

*A* Sporidia transverse triseptata.

§ Sporidia disticha.

Perithecia sparsa vel hinc inde leviter gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci  
50-60  $\approx$  8; sporidia 14-16  $\approx$  6-8; in ramis dec. *Nyssae* in Am. bor. *L. minus*

§§ Sporidia monosticha.

Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 80-100  $\approx$  8-10; sporidia 16-18  $\approx$   
6-7; in ramis *Genistae Scorpis* in Gallia *L. Scorpis*

Perithecia sparsa  $\frac{1}{2}$  mm. d.; asci 120-150  $\approx$  10-12; sporidia mono-  
sticha, vel etiam subdisticha, 16-21  $\approx$  8-9; in ramis *Rhois Cotini*  
in Gallia \**L. Cotini*

*B* Sporidia transverse 5-6-septata.

§ Sporidia disticha.

Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; sparsa, asci 100-110  $\approx$  12-16; sporidia 18-  
24  $\approx$  6-8 (raro 7-septata); in ramis *arborum plurium* in tota fere  
Europa et Am. bor. *L. compressum*

Perithecia copiosa; asci cylindracci vel clavati; sporidia disticha vel  
etiam monosticha, 25-33  $\mu$ . longa; in ramis *Xantoxylis* in Am. bor. \**L. obtectum*

Perithecia sparsa vel subgregaria; asci 75  $\approx$  15; sporidia 23  $\approx$  7,5; in  
*Echinopi Ritro* in It. bor. \**L. Ritro*

§§ Sporidia monosticha.

Perithecia sparsa vel gregaria,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. d.; asci 110-120  $\approx$  10; spo-  
ridia 22-26  $\approx$  7-9; in *Alno* et *Salice* in Fennia et Lapponia *L. deflectens*

Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci 100  $\approx$  10-20; sporidia 22-30  $\approx$  8-10;  
in ramis *Spartii* in Gallia \**L. Spartii*

*C* Sporidia transverse 7-8-septata.

§ Sporidia disticha.

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 70-80  $\approx$  12-16; sporidia 16-  
20  $\approx$  6-8; in ramis *Lauri* in It. bor. *L. nobile*

Perithecia laxe gregaria, $\frac{1}{3}$ mm. d.; asci 90-110 $\approx$ 14-16; sporidia 20-24 $\approx$ 10-12; in culmis <i>Arundinis</i> in It. bor.	<i>L. hygrophilum</i>
Perithecia gregaria, rarius sparsa, $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; asci 90-120 $\approx$ 14-18; sporidia 26-32 $\approx$ 9-12; in cortice <i>Piri</i> in Germania et Italia	<i>L. gregarium</i>
Perithecia laxe disseminata, circ. 1 mm. d.; asci 120-170 $\approx$ 20-28; sporidia 7-8-septata, 38-48 $\approx$ 13-18; in cortice <i>Juglandis</i> in It. bor.	* <i>L. subgregarium</i>
Perithecia sparsa vel subgregaria; asci oblongo-subclavati, 95 $\approx$ 5; sporidia 22-27 $\approx$ 8-10; in cortice <i>Aesculi Hippoc.</i> in It. bor.	* <i>L. inops</i>
Perithecia gregaria $\frac{1}{3}$ mm. d.; asci 150 $\approx$ 26; sporidia 34-38 $\approx$ 15; in ramulis <i>Salicis</i> in Belgio	* <i>L. purpurascens</i>

§§ Sporidia monostichia.

Perithecia sparsa, $\frac{1}{2}$ - $\frac{2}{3}$ mm. d.; asci 115-125 $\approx$ 12-15; sporidia 22-24 $\approx$ 9-11; in ramis plantar. variar. aromaticar. e. g. <i>Thimi</i> , <i>Lavandulae Rosmarini</i> , <i>Santolinae</i> , <i>Inulae</i> nec non <i>Genistae</i> , <i>Rhamni</i> etc. in Gallia et Algeria	<i>L. aromaticum</i>
Perithecia solitaria, mediocria; asci anguste elongati; sporidia 6-8-loocularia 30-40 $\approx$ 9-10; in cortice <i>Pruni Cerasi</i> in It. bor. (Mihi dubia)	<i>L. graphidiosporum</i>
Pherithecia dense gregaria ostiolo minuto, papillulato, compresso; 350-400 $\mu$ . d.; asci 80-85 $\approx$ 12-15; sporidia 16-25 $\approx$ 7-8, tri-septata, polis pallidioribus; in ramis <i>Escalloniae</i> in Fuegia	* <i>L. melanomoides</i>

¶ Sporidia transverse 9-pluriseptata.

Perithecia sparsa, $\frac{2}{3}$ -1 mm. d.; asci 210-220 $\approx$ 24-27; sporidia 58-60 $\approx$ 17-19; in ligno <i>Mori</i> in It. bor. et Am. bor.	<i>L. fenestrata</i>
Perithecia sparsa $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 130-150 $\approx$ 18-25; sporidia 36-42 $\approx$ 18-20; in ligno <i>abietino</i> in It. bor.	<i>L. pachysporum</i>
Perithecia laxe gregaria, $\frac{1}{2}$ mm. d.; asci 140-150 $\approx$ 28-30; sporidia 35-40 $\approx$ 12-14; in ramis decortic. <i>Quercus</i> in It. bor.	<i>L. thyridioides</i>
Perithecia gregaria, tecta; asci clavati, 100 $\mu$ . longi; sporidia ovato-oblonga, multicestularia, 13-20 $\approx$ 6 (an 5-vel 7-septata?) in <i>Calycotome</i> in Algeria (Mihi dubia)	* <i>L. fraudolentum</i>

Clavis analytica specierum generis « Massaria »

1 Sporidia biseptata.

Perithecia approssimata, granuloso asperata; asci 160-180 $\approx$ 28-36; sporidia 40-50 $\approx$ 16-20; dein brunnea; in ramis <i>Fagi</i> in Bavaria	* <i>M. fugieola</i>
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B Sporidia triseptata.

§ Sporidiorum pars superior inferiori major.

Pherithecia subsparsa $\frac{1}{2}$ mm. d.; ostiolo crasse, cylindraceo; asci 180-210 $\approx$ 40-45; sporidia 48-52 $\approx$ 20-24, fuliginea; in ramis <i>Ulmi</i> quos atroinquinat in Germania, Italia, Lapponia et Britannia	<i>M. foedans</i>
Perithecia sparsa, $\frac{1}{3}$ mm. d. ostiolo obtuso; asci 130-160 $\approx$ 25-30; sporidia 40-45 $\approx$ 16-20, olivacea; in ramis <i>Fagi</i> in Europa	<i>M. loricata</i>
Perithecia sparsa, globoso-depressa, $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; asci 130-170 $\approx$	

30-35; sporidia 46-55 $\approx$ 14-16, olivacea; in <i>Aesculo</i> in Italia Germania et Gallia	<i>M. Aesculi</i>
§§ Sporidiorum pars superior, inferiori aequalis.	
† Sporidia concoloria vel guttulis pallidioribus.	
Perithecia gregaria, $\frac{2}{3}$ -1 mm. d.; ascii 180-240 $\approx$ 60-70; sporidia 90-100 $\approx$ 20-27 olivacea; in ramis <i>Aceris</i> in Europa	<i>M. inquinans</i>
Perithecia gregaria, $\frac{1}{2}$ mm. d.; ascii 180-220 $\approx$ 30-35; sporidia 60-70 $\approx$ 20-25, olivacea; in ramis <i>Ulmii</i> in Germania et Italia	<i>M. Ulmi</i>
Perithecia subgregaria $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; ascii 200 $\approx$ 30-35; sporidia 75-80 $\approx$ 14-17, olivacea; in ramis <i>Pruni</i> in Germania	<i>M. conspurcata</i>
Perithecia gregaria, 1-1,5 mm. d.; ascii . . . ?; sporidia 80-84 $\approx$ 15-21 saturate fusca, septo mediano prominente; in ramis <i>Aceris</i> in Hollandia	* <i>M. Desreiae</i>
Perithecia caespitosa, $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; ascii 180-200 $\approx$ 30-35; sporidia 50-58 $\approx$ 18-20, diu hyalina dein haud saturate viridi-flava; in ramis <i>Figi</i> in fere tota Europa	<i>M. macrospora</i>
Perithecia sparsa, $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; ascii 160-180 $\approx$ 45-55; sporidia 53-60 $\approx$ 18-22, diu hyalina, demum fuscescentia; in ramis <i>Umbellulariae</i>	<i>M. pulchra</i>
†† Sporidia loculis extimis pallidioribus.	
Perithecia gregaria $\frac{1}{2}$ mm. d.; ascii 160-180 $\approx$ 20; sporidia 32-36 $\approx$ 12-16, flavo-olivacea; in ramis <i>Rosae</i> et <i>Berberidis</i> in Helvetia et Italia	<i>M. marginata</i>
C Sporidia pluriseptata.	
§ Sporidiorum pars superior inferiori major.	
Perithecia subsparsa, $\frac{3}{4}$ mm. d.; ascii 180-210 $\approx$ 40-45; sporidia 58-72 $\approx$ 16-19, olivacea; in ramis <i>Platani</i> in Germania, Italia et Gallia	<i>M. Platani</i>
Perithecia gregaria $\frac{1}{2}$ - $\frac{3}{4}$ mm. d.; ascii 200-220 $\approx$ 40-44; sporidia 60-64 $\approx$ 18-20, olivacea; in ramis <i>Betulae</i> in Germania, Britannia et Am. bor.	<i>M. Argus</i>
§§ Sporidiorum pars superior inferiori aequalis.	
Perithecia gregaria dein late aperta, $\frac{1}{2}$ - $\frac{3}{4}$ mm. d.; ascii 180-200 $\approx$ 22-30; sporidia 70-76 $\approx$ 22-26, fuliginea, loculis extimis subhyaliniis; in ramis <i>Mori</i> in Italia et Am. bor.	<i>M. epileuca</i>
Perithecia circiter 200 $\mu$ . d., basi planata; ascii 115 $\approx$ 65; sporidia 90 $\approx$ 25-28, quinquesepata concoloria fusca; in <i>Eryngio</i> in Gallia (Mihi videtur <i>Leptosphaeria</i> )	* <i>M. eryngiana</i>
Perithecia sparsa, ostiolis crassis, cylindricis; sporidia 4-5-septata fusca, 50-60 $\approx$ 12-16; in ramis <i>Mori</i> in Am. bor. (An <i>M. epileuca</i> ?)	* <i>M. olivacea</i>
Perithecia maiuscula, depressa; ascii . . . ; sporidia 5-septata 70-80 $\approx$ 16-18, fusca; in <i>Sambuco</i> in America boreali	* <i>M. distincta</i>

Clavis analytica specierum generis « Leptosphaeria »

**A** Sporidia biseptata.

Perithecia sparsa,  $1/_{10} \text{--} 1/_{9}$  mm. d.; asci 50-55  $\approx$  18-20; sporidia 20-25  $\approx$  6-7; in foliis *Potentillae* in Gallia

*L. minima*

Perithecia sparsa,  $1/_{16} \text{--} 1/_{8}$  mm. d.; asci 50-55  $\approx$  12-14; sporidia 15-18  $\approx$  3.5-4.5; in culmis *Andropogonis*, *Funci*, *Scirpi* etc. in Belgio, Britannia, Italia, Germania et Gallia

*L. Michotii*

Perithecia in maculis pallidis, ellipsoideis, 1-6 in quaque macula, 70-75  $\mu$ . d.; asci 50  $\approx$  10-12; sporidia 12-15  $\approx$  3; in foliis *Caricis* in Am. bor.

\**L. folliculata*

**B** Sporidia triseptata.

§ Species minores (h. e. sporidiis usque 28  $\mu$  longis).

a In Acotyledoneis parasitaceae.

Perithecia sparsa  $1/_{8} \text{--} 1/_{2}$  mm. d.; asci 100-110  $\approx$  14-18; sporidia 24-26  $\approx$  8-10; in thallo *Steironematis* in Am. bor.

*L. Steironematis*

Perithecia acervata, matrice nigrescente immersa,  $1/_{8}$  mm. d.; asci tetraspori, 60-65  $\approx$  10-12; sporidia 19-22  $\approx$  7-8; in thallo *Peltigerae* in Britannia et It. bor.

*L. Rivana*

Perithecia conferta,  $1/_{3}$  mm. d.; asci 100-110  $\approx$  9-12; sporidia 22-24  $\approx$  6-7; in thallo *Parmeliae* in Britannia

*L. Parmeliacarum*

Perithecia 70  $\mu$  d.; asci 55-65  $\approx$  10-12; sporidia 19-21  $\approx$  4-5; in thallo *Lemaneae* in Germania et Britannia

*L. Lemaneae*

Perithecia punctiformia; asci cylindracei; sporidia 24-27  $\approx$  6-9; in *Sphyridio* in Germania

\**L. Sphyridiana*

Perithecia  $1/_{9}$  mm. d.; asci 57  $\approx$  7.5-8; sporidia 11-13  $\approx$  3-3.5; in *Stereo* in Am. bor.

\**L. stereicola*

Perithecia in foveola sita,  $1/_{8} \text{--} 1/_{6}$  mm. d.; asci 33-45  $\approx$  6-7; sporidia 11-13  $\approx$  3-4; in *Stereobolus* in Am. bor.

*L. Porothelia*

Perithecia gregaria; asci 50  $\approx$  10; sporidia 16  $\approx$  4; in thallo *Chondri* in Dania

\**L. danica*

Perithecia sparsa,  $1/_{8} \text{--} 1/_{9}$  mm. d.; asci 75-85  $\approx$  7-9; sporidia 14-16  $\approx$  4-5; in thallo *Ramalinae* in Gallia

*L. Ramalinae*

Perithecia sparsa  $1/_{12} \text{--} 1/_{10}$  mm. d.; asci 40-45  $\approx$  8-10; sporidia 14-16  $\approx$  5-5.5; in pedunculus *Tortulae* in It. bor.

*L. bryophila*

Perithecia gregaria, 50-100  $\mu$ . d.; asci 32-42  $\approx$  16-19; sporidia 14-16  $\approx$  3-4; in sporangiis *Polytrichi* in Tyrolia

*L. Heupleri*

Perithecia lase gregaria,  $1/_{10} \text{--} 1/_{9}$  mm. d.; asci 44-55  $\approx$  10-12; sporidia 10-12  $\approx$  5-5.5; in foliis *Selaginellae* in Italia et Germania

*L. helvetica*

Perithecia sparsa  $1/_{8} \text{--} 1/_{7}$  mm. d.; asci 55-78  $\approx$  12-14; sporidia 20-24  $\approx$  5-7; in *Lycopodio* in Fennia, Belgio, Germania, It. et Am. bor.

*L. Crepini*

Perithecia  $1/_{4}$  mm. d., sparsa, 100-110  $\approx$  12-15; sporidia 23-25  $\approx$  6-7; in *Equiseto* in It. bor. et Gallia

*L. hiemalis*

Perithecia sparsa,  $1/_{10} \text{--} 1/_{9}$  mm. d.; epiphylla; asci 25-30  $\approx$  6-8; sporidia 7.5-8  $\approx$  3.5-4; in foliis *Pteridis* in It. bor.

*L. aquilina*

*aa* In Monocotyledoneis parasiticae.

† Sporidia disticha.

Perithecia parallela seriata, $1/_{\text{o}} \cdot 1/_{\text{7}}$ mm. d.; asci 45-50 $\approx$ 8; sporidia 15-17 $\approx$ 3-4; in foliis <i>Ophiopogonis</i> in It. bor.	<i>L. Ophiopogonis</i>
Perithecia sparsa, $1/_{\text{o}} \cdot 1/_{\text{9}}$ mm. d.; asci 55-65 $\approx$ 8-9; sporidia 14-16 $\approx$ 4-5; in foliis <i>Leersiae</i> in It. bor.	<i>L. Leersiae</i>
Perithecia $1/_{\text{8}}$ mm. d.; asci 60-70 $\approx$ 10-12; sporidia 23-26 $\approx$ 3,5-4,5; in calamis <i>Junci</i> in Germania, Britannia, Lusitania	<i>L. juncina</i>
Perithecia sparsa, $1/_{\text{7}} \cdot 1/_{\text{10}}$ mm. d.; asci 55 $\approx$ 60-7 $\approx$ 10; sporidia 17-20 $\approx$ 4-5; in culmis caulinibusque plantarum plurium in Germania, Gallia, et Italia (Adsum formae plures. Cfr. Tab. XLI-XLIV)	<i>L. eustoma</i>
Perithecia sparsa, $1/_{\text{6}} \cdot 1/_{\text{4}}$ mm. d.; asci 85-95 $\approx$ 10-12; sporidia 22-24 $\approx$ 5-6; in culmis <i>Arundinis</i> in It. bor.	<i>L. donacina</i>
Perithecia gregaria, apice penicillo setarum instructa; asci 75-85 $\approx$ 10-12; sporidia 18-22 $\approx$ 4,5-5; in calamis <i>Scirpi</i> in It. bor.	<i>L. Micropogon</i>
Perithecia sparsa $1/_{\text{6}} \cdot 1/_{\text{5}}$ mm. d.; asci 55-65 $\approx$ 18-24; sporidia 21-23 $\approx$ 5-6; in culmis <i>Careae</i> et in caulinibus <i>berbarum</i> in Australia, Gallia et Belgio	<i>L. personata</i>
Perithecia sparsa $1/_{\text{7}} \cdot 1/_{\text{6}}$ mm. d.; asci 65-75 $\approx$ 12-14; sporidia 25-27 $\approx$ 4,5-5,5; in culmis <i>Ammophilae</i> in Britannia	<i>L. Marram</i>
Perithecia sparsa, collapsa, $1/_{\text{5}} \cdot 1/_{\text{4}}$ mm. d.; asci 50-55 $\approx$ 8-10; sporidia 16-18 $\approx$ 4-5; in culmis <i>Zrae</i> in It. bor.	<i>L. patelliformis</i>
Perithecia sparsa vel subgregaria, $1/_{\text{8}}$ mm. d.; asci 60-65 $\approx$ 12-16; sporidia 15-18 $\approx$ 5-6; in <i>Asparago</i> in Fennia	<i>L. socialis</i>
Perithecia sparsa $1/_{\text{9}} \cdot 1/_{\text{8}}$ mm. d.; asci 75-85 $\approx$ 12-14; sporidia 26-28 $\approx$ 6-7, fuliginea; in calamis <i>Junci</i> in It. bor.	<i>L. hydrophila</i>
Perithecia sparsa, tecta, $1/_{\text{5}} \cdot 1/_{\text{6}}$ mm. d.; asci 80-90 $\approx$ 20-25; sporidia 25-28 $\approx$ 10-12; in calamis <i>Typhae</i> in Germania	<i>L. Kunzeana</i>
Perithecia sparsa $1/_{\text{8}} \cdot 1/_{\text{6}}$ mm. d.; asci 65-75 $\approx$ 12-16; sporidia 23-26 $\approx$ 6-7, in culmis, vaginis foliisque <i>Typharum</i> , <i>Alopecuri</i> , <i>Poae</i> , <i>Triseti</i> , etc. in fere tota Europa	<i>L. Typharum</i>
Perithecia 250-350 $\mu$ . d. late conica; asci 70-100 $\approx$ 12-15; sporidia 20-30 $\approx$ 7; in <i>Asparago</i> in Am. bor.	* <i>L. Asparagi</i>
Perithecia minutissima; asci 44 $\approx$ 10; sporidia 16 $\approx$ 4; in foliis <i>Dasylirii</i> in It. austr.	* <i>L. Dasylirii</i>
Perithecia gregaria vel sparsa $1/_{\text{8}}$ mm. d., solidiuscula; asci 57 $\approx$ 8; sporidia 11 $\approx$ 3,5; in <i>Sabal serrul.</i> in Am. bor.	* <i>L. sabalicola</i>
Perithecia sparsa, in macula griseola; asci 100-110 $\approx$ 10-13; sporidia 22-28 $\approx$ 4; in culmis foliisque <i>Oryzae</i> in It. bor.	* <i>L. Cattanei</i>
Perithecia sparsa, hypophylla, 150-200 $\mu$ . d.; asci 40-45 $\approx$ 10; sporidia 17-20 $\approx$ 5; in foliis culmisque <i>Hierochloes</i> in Am. austr.	* <i>L. fuegiana</i>
Perithecia 100-120 $\mu$ . d. seriata; asci 40-44 $\approx$ 14-16; sporidia 8-12 $\approx$ 3-4; in culmis foliisque <i>Nardi</i> in Gallia	* <i>L. pachytheca</i>
†† Sporidia monosticha.	
Perithecia sparsa $1/_{\text{4}} \cdot 1/_{\text{5}}$ mm. d.; asci 75-80 $\approx$ 7-9; sporidia 12-14 $\approx$ 1-6; in foliis <i>Yuccae filam.</i> in Am. bor.	<i>L. filamentosa</i>

Perithecia 160 $\mu$ . diam.; asci 50-54 $\approx$ 12; sporidia 16-20 $\approx$ 6-7; in foliis <i>Catabrosae algidae</i> in Groenlandia	* <i>L. algida</i>
<i>aaa</i> In Dicotyledoneis parasiticae.	
† Sporidia disticha.	
o cauli-ramicolae.	
Perithecia gregaria, $1/6^{1/5}$ mm. d.; asci 45-50 $\approx$ 6-8; sporidia 13-15 $\approx$ 3-4; in sarmenis <i>Rubi</i> in Am. bor.	<i>L. Hendersonia</i>
Perithecia sparsa, $1/6$ mm. d.; asci 70-75 $\approx$ 8-9; sporidia 14 $\approx$ 4; in <i>Parietaria</i> in Gallia	<i>L. muralis</i>
Perithecia sparsa $1/5$ mm. d.; asci 55-60 $\approx$ 8-10; sporidia 17-19 $\approx$ 4; in <i>Chenopodio</i> in Am. bor.	<i>L. anthelmintica</i>
Perithecia sparsa $1/7^{1/6}$ mm. d.; asci 45-55 $\approx$ 9-12; sporidia 16-18 $\approx$ 3 $^{1/2}$ ; in ramis <i>Ribis</i> in Germania, Italia et Australia	<i>L. anceps.</i>
Perithecia sparsa, $1/9^{1/8}$ mm. d.; asci 50-60 $\approx$ 10-12; sporidia 14-16 $\approx$ 5; in caulis <i>Chondrille juncea</i> in It. bor.	<i>L. bella</i>
Perithecia sparsa, $1/8^{1/9}$ mm. d.; asci 60-70 $\approx$ 10-12; sporidia 16-17 $\approx$ 5-6; in caulis <i>herbaceis</i> in It. bor.	<i>L. brachysperma</i>
Perithecia $1/3^{1/2}$ mm. d.; asci 65-75 $\approx$ 10-12; sporidia 14-16 $\approx$ 5-6; in ramis <i>Buxi</i> in Belgio	<i>L. melanomoides</i>
Perithecia sparsa, $1/5$ mm. d.; asci 60-70 $\approx$ 6-7; sporidia 20-22 $\approx$ 3 $^{1/2}$ -4; in caulis et ramis <i>Humuli</i> , <i>Artemisiae</i> , <i>Lonicerae</i> , etc. in Germania, Italia et Britannia	<i>L. dumetorum</i>
Perithecia sparsa $1/7^{1/6}$ mm. d.; asci 65-75 $\approx$ 7-9; sporidia 20-22 $\approx$ 4-5; in <i>Bocconia</i> in Am. bor.	<i>L. Bocconiae</i>
Perithecia $1/5^{1/4}$ mm.; asci 90-100 $\approx$ 8-9; sporidia 22-25 $\approx$ 3-4; in ramulis <i>Genistae</i> , et caulis <i>Capparis Lythri</i> , <i>Onobrychidis</i> , <i>Thalictri</i> in Germania, Gallia et Italia	<i>L. fusispora</i>
Perithecia sparsa $1/7^{1/10}$ mm. d.; asci 55-60 $\approx$ 7-10; sporidia 17-20 $\approx$ 4-5; in caulis culmisque plantarum plurium in Germania, Gallia et Italia. (Adsunt formae plures. Cfr. XLI-XLIV)	<i>L. eustoma</i>
Perithecia sparsa vel leniter gregaria 150-200 $\mu$ . d.; asci 100-110 $\approx$ 10-12; sporidia 20-22 $\approx$ 5-6; in ramis caulisque plantarum plurium; in It. bor. Gallia et Germania	<i>L. vagabunda</i>
Perithecia gregaria, $1/3$ mm. d.; asci 85-100 $\approx$ 9-12; sporidia 25-30 $\approx$ 5-6; in <i>Phytolacca</i> in It. bor.	<i>L. Phytolaccae</i>
Perithecia sparsa $1/7^{1/7}$ mm. d.; asci 65-70 $\approx$ 8; sporidia 22-25 $\approx$ 3-4; in <i>Parietaria</i> in It. bor.	<i>L. Parietariae</i>
Perithecia sparsa $1/6^{1/5}$ mm. d.; asci 65-75 $\approx$ 18-24; sporidia 21-23 $\approx$ 5-6; in caulis herbarum maiorum et culmis <i>Airae</i> in Austria, Gallia et Belgio	<i>L. personata</i>
Perithecia sparsa $1/4$ mm. d.; asci 70-80 $\approx$ 8-10; sporidia 24-28 $\approx$ 4-5; in <i>Digitale</i> in Gallia et Tyrolia.	<i>L. Digitalis</i>
Perithecia sparsa $1/6^{1/6}$ mm. d.; asci 65-75 $\approx$ 8-10; sporidia 24-27 $\approx$ 3-4 $^{1/2}$ ; in <i>Clematis</i> et in ramulis <i>Mori</i> in Germania, Gallia et Italia	<i>L. haematites</i>
Perithecia sparsa, plicata, $1/3$ mm. d.; asci 85-95 $\approx$ 11-13; sporidia 22-25 $\approx$ 6-7; in <i>Aconito</i> in It. bor.	<i>L. Aconiti</i>

- Perithecia sparsa  $\frac{1}{3}$  mm. d.; asci 75-85  $\approx$  9-11; sporidia 14-16  $\approx$  6-7;  
in *Solano Dule*, in Suecia
- Perithecia subgregaria  $\frac{1}{2}$  mm. d.; asci 70-80  $\approx$  10-12; sporidia 16-  
18  $\approx$  6-7; in ramis *Salicis* in Gallia
- Perithecia sparsa  $\frac{1}{6}$ - $\frac{1}{8}$  mm. d.; asci 55-65  $\approx$  8-11; sporidia 18-24  $\approx$   
4-5; in *Endiusa (Erevo)* in Germania
- Perithecia gregaria  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 85-100  $\approx$  10-12; sporidia 18-  
21  $\approx$  5-6; in *Caryophyllacea* in Gallia
- Perithecia gregaria  $\frac{1}{8}$  mm. d.; asci 100-110  $\approx$  8-10; sporidia 15-18  
 $\approx$  4-6; in ramulis *Corni* in It. bor. (Sporidiorum fabrica *L. Col-  
lumiae affinis*)
- Perithecia  $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  8-12; sporidia 22-25  $\approx$  6-7; in  
*Epilobio* in Belgio
- Perithecia gregaria  $\frac{1}{3}$  et amplius mm. d.; asci 110-120  $\approx$  10-11;  
sporidia 24-26  $\approx$  6; in *Cirsio* in It. bor.
- Perithecia sparsa  $\frac{1}{8}$  et fere  $\frac{1}{2}$  mm. d.; asci 95-105  $\approx$  12-15; spori-  
dia 20-23  $\approx$  6-7 $\frac{1}{2}$ ; in caulibus *Galiorum*, *Senecionum* et *Veronicae*,  
in Italia, Britannia et Germania
- Perithecia gregaria  $\frac{1}{3}$  mm. d.; asci 70-80  $\approx$  8-10; sporidia 20-22  $\approx$   
3-4; in *Artemisia* in Hungaria
- Perithecia sparsa; asci clavato-elongati; sporidia 40  $\approx$  5; in *Rudbeckia*  
in Bohemia
- Perithecia gregaria; asci 200  $\approx$  50; sporidia 16-18  $\approx$  6; in *Crepide* in  
Sibiria
- Perithecia minuta, gregaria maculis viridibus insidentia; asci cylin-  
dracei; sporidia (disticha?) 25  $\mu$ . longa; in *Meliloto* in Am. bor.
- Perithecia in macula insidentia; asci 40-50  $\approx$  7; sporidia 13-16  $\approx$  3;  
in *Viburno* in Am. bor.
- Perithecia 130-150  $\mu$ . d.; asci 50  $\approx$  10-12; sporidia 12-15  $\approx$  4-5; in  
*Salicornia* in Am. austr.
- Perithecia gregaria, 150-200  $\mu$ . d.; asci 44-57  $\approx$  9-11; sporidia 20-  
22  $\approx$  3 $\frac{1}{2}$ -4 $\frac{1}{2}$ ; in *Ribe* in Suecia
- Perithecia dense gregaria; asci 85  $\approx$  8; sporidia 9-15  $\approx$  5-6; in *Corylo*  
in Gallia
- Perithecia dense gregaria; asci 62-66  $\approx$  10-12; sporidia 14-16  $\approx$  5; in  
*Vite* in It. bor.
- Perithecia subgregaria, asci 100  $\mu$ . longi; sporidia 25  $\approx$  5; in *Geni-  
sta* in Algeria
- Perithecia dense connata (ut in *Cucurbitaria*)  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci  
60  $\approx$  10 (p. spor.) sporidia 15-18  $\approx$  5-6; in *Dorcyrio* in Gallia
- Perithecia sparsa; asci clavati; sporidia utrinque hyalino-cuspidata,  
25  $\approx$  8 (sime app.); in *Baccharide* in California
- Perithecia gregaria; asci 50-52  $\approx$  12-14; sporidia fusoidae-oblongata;  
in *Oxyria* in Groenlandia
- Perithecia sparsa circ. 300  $\mu$ . d.; asci 60-70  $\approx$  10-12; sporidia 16-  
18  $\approx$  6-5; in *Campylosoma* in Serbia

*L. Solani**L. Gillotiana**L. Endiuae**L. Sarazziniana**L. platycarpa**L. Bommeriana**L. corynospora**L. Galiorum**L. purpurea**\*L. Rudbeckiae**\*L. sibirica**\*L. viridella**\*L. Tini**\*L. Promontorii**\*L. cladophila**\*L. Avellanae**\*L. pampini**\*L. Phiala**\*L. cucurbitarioides**\*L. bicuspidata**\*L. Oxyriac**\*L. Serbica*

- Perithecia sparsa; ascii clavati; sporidia fusoidea, acuta; in *Stelia*  
in Gallia. (Mihi dubia) \**L. Stellariae*
- Perithecia sparsa  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; ascii 75-80  $\approx$  10-12; sporidia 22-  
 $\approx$  4; in *Brunelia* in Am. bor. \**L. Brunellae*
- Perithecia sparsa; ascii clavati; sporidia fusideo-oblonga; in rami  
vivi *Berberidis* in Gallia (Mihi dubia) \**L. Berberidis*
- oo foliicolae.
- Perithecia sparsa; ascii 60  $\approx$  24; sporidia 24  $\approx$  8; in *Andromeda* in  
Groenlandia et Spitzbergen *L. hyperborcea*
- Perithecia sparsa  $\frac{1}{4}$  mm. d.; ascii 65-75  $\approx$  8-10; sporidia 14-17  $\approx$  5-6;  
in *Collomia* in Afr. austr. *L. Collomiae*
- Perithecia  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; ascii 60-65  $\approx$  8-10; sporidia 18-22  $\approx$  4-5; in  
acubus *Pini* in Germania *L. aeicola*
- Perithecia sparsa amphigena,  $\frac{1}{6}$ - $\frac{1}{7}$  mm. d.; ascii 100-110  $\approx$  12-15;  
sporidia 22-25  $\approx$  6-8; in *Erica* in Tyrolia *L. subtecta*
- Perithecia sparsa 100-120  $\mu$ . d.; ascii 55-60  $\approx$  14; sporidia 18  $\approx$  5; in  
*Silene* in alpibus Sabaudicis \**L. Sabauda*
- Perithecia disseminata, 120  $\mu$ . d.; ascii 30-40  $\approx$  15-20; sporidia 22-  
26  $\approx$  5-6; in *Campanula* in Carniola \**L. Plemeliana*
- Perithecia amphigena, 120-140  $\mu$ . d.; ascii 105  $\approx$  15; sporidia submo-  
nosticha, 28  $\approx$  5; in *Erica* in Tyrolia \**L. subtecta*
- Perithecia semiimmersa, epiphylla; ascii clavati; sporidia 20  $\approx$  3,5-4  
in *Quercu* in California \**L. dryophila*
- Perithecia sparsa; ascii clavati; sporidia 12-14  $\approx$  3-5; in *Coffea* in Cuba \**L. coffeigena*
- Perithecia sparsa; ascii 30-50  $\approx$  10; sporidia fusiformia (denique 3-  
4-septata?); in *Silene* in Algeria (dubia) \**L. indepressa*
- Perithecia minuta, in macula sordide alba; latiuscule pertusa; ascii  
35-40  $\approx$  7-8; sporidia 15-19  $\approx$  3; in *Physalide* in Am. bor. \**L. Physalidis*
- Perithecia sparsa; ascii subclavati, plerumque 4-spori; sporidia 25-  
27  $\approx$  5-6; in *Camellia* in Australia \**L. Camelliæ*
- Perithecia ut in *L. Silenes-acaulis*, cui dicitur affinis; ascii 45  $\approx$  10;  
sporidia 20  $\approx$  6; in *Stellaria* in Groenlandia \**L. Rostrupii*
- Perithecia seriata, sparsa; ascii 64-66  $\approx$  11-13; sporidia 15-17  $\approx$  6-8;  
in *Dryade* in Carniola super. \**L. Rehmiana*
- †† Sporidia monosticha.
- o Perithecia levia.
- Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; ascii 60-70  $\approx$  16-18; sporidia 18-20  
 $\approx$  4-5; in foliis *Chamaeropis* in Sicilia *L. Magnisiana*
- Perithecia gregaria,  $\frac{1}{3}$  mm. d.; ascii 85-95  $\approx$  6-8; sporidia 13-15  $\approx$   
 $\frac{4}{3}$ ; in sarmentis *Rubi* in Germania, Gallia, Lusitania, Italia *L. Coniothyrium*
- Perithecia dense gregaria,  $\frac{1}{3}$  mm. d.; duriuscula; ascii 80-90  $\approx$  8-10;  
sporidia 18-21  $\approx$  5-6; in sarmentis *Rubi* in Gallia. Inter *Melanom-*  
*ma* et *Leptosphaeriam* media *L. Thomasiana*
- Perithecia subgregaria coriacea, crassa,  $\frac{1}{2}$  mm. d.; ascii 125-135  $\approx$   
11-13; sporidia 22-25  $\approx$  6-7 $\frac{1}{2}$ ; in caulinis variis in Germania, Bri-  
tannia et Fennia *L. clivensis*

- Perithecia sparsa  $\frac{1}{3}$  et amplius mm. d.; asci 90-100  $\approx$  8-10; sporidia 2-22  $\approx$  5-6; in caulibus *Dianthi*; in It. bor. (Aff. *L. clivensi*) *L. leptospora*
- Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 100-115  $\approx$  8-10; sporidia 16-18  $\approx$  5-6; in *Heliantho* in Am. bor. *L. consessa*
- Perithecia sparsa  $\frac{1}{3}$  mm. d.; asci 80  $\approx$  8; sporidia 15-18  $\approx$  5 $\frac{1}{2}$ -6 $\frac{1}{2}$  in caulibus *Galii* in It. bor. *L. gallicola*
- Perithecia sparsa  $\frac{1}{4}$  mm. d.; asci 80-100  $\approx$  10-12; sporidia 16-18  $\approx$  5-6 $\frac{1}{2}$ ; in ramis *Fici* in It. bor. *L. Caricae*
- Perithecia sparsa  $\frac{1}{4}$  mm. d.; asci 95-105  $\approx$  8-10; sporidia 15-17  $\approx$  7-8 pallida; in *Rubo* in Italia Britannia et Lusitania *L. fuscella*
- Perithecia gregaria  $\frac{1}{3}$  mm. d.; asci 100-120  $\approx$  15; sporidia 16-22  $\approx$  8-10; in *Oenothera* in Argentina \**L. argentina*
- Perithecia dense gregaria; asci 110  $\approx$  12; sporidia 14-19  $\approx$  4 $\frac{1}{2}$ -5, mono-vel disticha; in *Spartio junceo* in Lusitania \**L. lusitanica*
- Perithecia gregaria; asci 60  $\approx$  9; sporidia 14  $\approx$  5-6; in *Melicagine* in Germania \**L. Medicaginis*
- Perithecia sparsa, 160  $\approx$  200  $\mu$ . d.; asci 45-100  $\approx$  12-25; sporidia 22  $\approx$  5; in *Vite* in Britannia \**L. Cookei*
- Perithecia sparsa, rarissime gregaria; asci 72-100  $\approx$  10-12; sporidia 12-15  $\approx$  4-5; in *Vite* in Sicilia \**L. Gibelliana*
- Perithecia gregaria; asci cylindracei; sporidia 26  $\approx$  8; in *Vite* in Austria \**L. ritigena*
- Perithecia subcaespitosa, 350-450  $\mu$ . d.; asci 100-120  $\approx$  7-9; sporidia 16-20  $\approx$  6-7; in *Kalmia* in Am. bor. \**L. Kalmiae*
- Perithecia sparsa  $\frac{1}{4}$  mm. d.; asci 70-100  $\approx$  10-16; sporidia 18-24  $\approx$  8-9; in *Salsola Kali* in Gallia \**L. Leucanora*
- Perithecia globoso-conoidea; asci cylindracei vel subclavati; sporidia vivide fuliginea; in *Platano* in Am. bor. (*Mihi dubia*) \**L. platanicola*
- Perithecia sparsa vel gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  10-12; sporidia 18-22  $\approx$  7-9 in trunco *Anamirtae* in Am. bor. \**L. Harknessiana*
- Perithecia sparsa; asci 106-110  $\approx$  9-10; sporidia 20-23  $\approx$  6-7; in *Adathoda* (an potius *Acantho?*) in Sina \**L. Acanthi*
- Perithecia sparsa, 150  $\mu$ . d.; asci 80-90  $\approx$  8-9; sporidia 15-18  $\approx$  5; in ramis *Ribis* in Fennia \**L. Ribis*
- Perithecia sparsa vel approximata, basi hyphis dematiaceis cincta; asci 75  $\approx$  10; sporidia 12,5  $\approx$  5; in *Lycio* in Gallia \**L. Lycii*
- Perithecia transverse plicata.
- Perithecia sparsa vel subgregaria;  $\frac{1}{4}$  mm. d.; asci 70-80  $\approx$  8-9; sporidia 16-18  $\approx$  4-5; in *Angelica*, *Urtica* etc. et in ramulis *Pteridis* in Italia, Fennia, Germania, Britannia *L. conoidea*
- Perithecia sparsa vel subgregaria  $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  8-10; sporidia 20-23  $\approx$  4-5 in caulibus variis in fere tota Europa *L. Doliolum*
- Perithecia sparsa,  $\frac{1}{3}$  et usque  $\frac{1}{2}$  mm. d.; asci 85-95  $\approx$  7-9; sporidia 24-28  $\approx$  3 $\frac{1}{2}$ -4; in ramulis *Melampyrum* in Germania, Austria et Italia *L. suffulta*
- Perithecia sparsa vel gregaria, vix sulcata,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  10-12; sporidia 22-25  $\approx$  5-6; in anthodio *Carlinae* in It. bor. *L. antophila*

*aaaa* In fimo.

Perithecia sparsa; asci 90-100  $\approx$  10-12; sporidia 18-22  $\approx$  4-5; in *fimo*  
in Germania

*L. fimisedit*

**§§** Species majores (sporidia 30-40  $\mu$ . longa).

† Sporidia oblonga.

*a* In *Acotyledoneis* parasiticae.

Perithecia parva; asci cylindraceo-clavati; sporidia 28-32  $\approx$  9-10; in  
*Rhizocarpo* in Groenlandia

\**L. polaris*

*aa* In *Monocotyledoneis* parasiticae.

Perithecia sparsa  ${}^1_{14}$  mm. d.; asci 115-125  $\approx$  20-24; sporidia 30-32  $\approx$   
9-11; in foliis *Dupontiae* in Spetzbergia

*L. vagans*

Perithecia sparsa  ${}^1_{15}{}^1_{14}$  mm. d.; asci 90-110  $\approx$  22-26; sporidia 31-33  
 $\approx$  9,11; in *Junco* in Spetzberzia

*L. junciseda*

Perithecia sparsa vel subgregaria  ${}^1_{13}$  mm. d.; asci 110-120  $\approx$  20-25  
sporidia 35-38  $\approx$  11-13; in rhizomatisbus *Iridum* in Italia, Austria  
et Gallia

*L. heterospora*

Perithecia seriata, maiuscula; asci 100-150  $\approx$  15-20; sporidia 37-40  
 $\approx$  7-8; in *Andropogone Ischaemo* in It. bor

\**L. Ischaemi*

Perithecia 350-400  $\mu$ . d.; asci 120  $\mu$ . longi; sporidia 40-60  $\approx$  9; in  
vaginis *Oryzae* in It. bor.

\**L. Salvinii*

Perithecia sparsa; asci clavati; sporidia 30  $\approx$  10; in foliis *Caricis* in  
Britannia

\**L. epicarecta*

*aaa* In *Dicotyledoneis* parasiticae.

Perithecia sphaeroideo-depressa; asci 95-105  $\approx$  30-34; sporidia 30-  
35  $\approx$  8-10; in *Ranunculo* in Groenlandia

\**L. Ranunculi*

Perithecia gregaria  ${}^1_{15}{}^1_{13}$  mm. d.; asci 130-140  $\approx$  20-24; sporidia 35-  
40  $\approx$  12-14; in *Clematide* in Helvetia

*L. agminalis*

Perithecia gregaria  ${}^1_{13}$  mm. d.; asci 85-95  $\approx$  12-14; sporidia 27-30  $\approx$   
7-8; in *Euphorbia* in Austria et Italia

*L. Euphorbiae*

Perithecia punctiformia, maculis nigricantibus insidentia; asci 60  $\approx$   
20; sporidia 30-35  $\approx$  10-12; in foliis *Stellariae uliginosae* in Britannia

\**L. uliginosa*

Perithecia ampligena, 120-150  $\mu$ . d.; asci 60-90  $\approx$  30; sporidia 30-  
35  $\approx$  8-12; in *Plantagine* in Am. austr. (foliicola)

\**L. austro americana*

Perithecia sparsa 130  $\mu$ . d.; asci 136  $\approx$  27; sporidia 34  $\approx$  14; in *Andromeda*  
in Labrador et Spitzbergia

\**L. Andromedae*

†† Sporidia cylindracea vel cylindraceo-fusoidea.

*a* In *Dicotyledoneis* parasiticae.

Perithecia sparsa vel subgregaria,  ${}^1_{18}$  mm. d.; asci 45-55  $\approx$  14-16;  
sporidia 30-32  $\approx$  4 ${}^1_{12}$ -6; in foliis *Silenes* in Tyrolia et Spitzbergia

*L. Silenes-acaulis*

Perithecia sparsa  ${}^1_{16}{}^1_{15}$  mm. d.; asci 60-70  $\approx$  7-8; sporidia 27-30  $\approx$  3-4;  
in caulibus *Galdi* in Germania et Britannia

*L. Aparines*

Perithecia gregaria  ${}^1_{17}{}^1_{15}$  mm. d.; asci 50-65  $\approx$  6-8; sporidia 25-30  $\approx$   
 $2^1_{12}$ -3 ${}^1_{12}$ ; in caulibus *Umbelliferarum* et in ramis *Sambuci* in It.  
bor. et Hungaria

*L. rubicunda*

Perithecia sparsa  ${}^1_{10}{}^1_{17}$  mm. d.; asci 60-70  $\approx$  14-16; sporidia 25-37  $\approx$   
5-7; in *Ranunculo* in Nowaja Semlja

*L. Weberi*

- Perithecia subsparsa  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 80-100  $\approx$  10-11; sporidia 28-30  $\approx$  4-5; in *Medicagine* in Gallia *L. pratensi*,
- Perithecia sparsa  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 110-120  $\approx$  10-12; sporidia 32-35  $\approx$  6; in *Oenothera* in Am. bor. *L. Ellisiana*
- Perithecia subgregaria  $\frac{1}{4}$  mm. d.; asci 105-115  $\approx$  12-16; sporidia 38-42  $\approx$  5-7; in *Reseda* in It. bor. *L. Resedae*
- Perithecia conferta sed aliquando sparsa,  $\frac{1}{3}$  mm. d.; asci 110-120  $\approx$  12-16; sporidia 50-55  $\approx$  5-7; in *Farsetia*, *Alyssum*, *Eryngio*, *Syambrio* in Gallia et Germania *L. maculans*
- Perithecia sparsa; asci 86  $\approx$  18; sporidia 30  $\approx$  4-5; in *Eudiusa* in Germania *L. Endiusae*
- Perithecia consertiuscula, 150-180  $\mu$ . asci . . . ; sporidia 25-30  $\approx$  6-8; in foliis *Xanthoxylaceae* et in *Anacardiaceae* in Am. Austr. *\*L. brasiliensis*
- Perithecia hypophylla, in tomento nidulantia; asci clavati; sporidia 50-55  $\approx$  8; in foliis *Helichrysi* in Africa *\*L. Helychrisi*
- aa* In Monocotyledoneis parasitaceae.
- Perithecia sparsa  $\frac{1}{6}$ - $\frac{1}{7}$  mm. d.; asci 65-70  $\approx$  12-14; sporidia 33-35  $\approx$  3  $\frac{1}{2}$ - $\frac{1}{2}$ ; in culmis *Junci* in It. bor. *L. juncicola*
- Perithecia sparsa  $\frac{1}{4}$  mm. d.; asci 75-85  $\approx$  10-13; sporidia 30-33  $\approx$  5-6 (rarissime 5-septata) in culmis *Erianthi* et *Zeae* in Am. bor. *L. Orthogramma*
- Perithecia seriata, crustâ stromaticâ tecta; asci 80-90  $\approx$  10-12; sporidia 33-36  $\approx$  5-6; in *Phragmite* in fere tota Europa, Am. bor., Borneo et Kamtschatka *L. arundinacea*
- Perithecia sparsa  $\frac{1}{6}$  mm. d.; asci 55-60  $\approx$  18-20; sporidia 35-38  $\approx$  5  $\frac{1}{2}$ -6; in *Briza* in It. bor. *L. Brizae*
- Perithecia sparsa  $\frac{1}{7}$ - $\frac{1}{5}$  mm. d.; asci 70-90  $\approx$  16-20; sporidia 35-38  $\approx$  6-7; in *Carice* in Spetzbergia *L. cariceinella*
- Perithecia subsparsa  $\frac{1}{7}$ - $\frac{1}{6}$  mm. d.; asci 140-150  $\approx$  25-28; sporidia 55-60  $\approx$  10-12, diu hyalina; in *Carice* in Moravia *L. gigaspora*
- Perithecia gregaria, 0,2 mm. d.; asci 120-130  $\approx$  18 sporidia 33  $\approx$  6; in *Rusco* in Gallia *\*L. ruscoicola*
- C* Sporidia quadri septata.
- +* In Monocotyledoneis parasitaceae.
- Perithecia gregaria  $\frac{1}{6}$  mm. d.; asci 70-80  $\approx$  8-10; sporidia 16-19  $\approx$  3  $\frac{1}{2}$ - $\frac{1}{2}$ ; in *Festucis* in It. bor. *L. customella*
- Perithecia minuta; asci 50-60  $\approx$  10; sporidia 30  $\approx$  5; in *Cypero* in Italia bor. *\*L. cyperina*
- ††* In Dicotyledoneis parasitaceae.
- Perithecia sparsa  $\frac{1}{10}$ - $\frac{1}{9}$  mm. d.; asci 45-50  $\approx$  12-14; sporidia 20-22  $\approx$  4-6; in *Acere* et *Citro* in It. bor. *L. Diana*
- Peritecia laxe gregaria  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 65-75  $\approx$  8-10; sporidia 20-25-4; in *Gentiana* in Gallia *L. sapevensis*
- Perithecia sparsa  $\frac{1}{7}$  mm. d.; asci 80-90  $\approx$  8-9; sporidia 26-28  $\approx$  4; in *Lathyro* in Moravia Germania et Italia *L. Niessleana*
- Perithecia sparsa vel gregaria  $\frac{1}{4}$ ; asci 85-95  $\approx$  10-12; sporidia 29-32  $\approx$  4-5; in *Laserpitio* et *Tosfieldia* in Gallia et Austria *L. oreophila*

Perithecia sparsa $\frac{1}{8}$ - $\frac{1}{4}$ apice penicillato; asci 75-85 $\approx$ 10-12; sporidia 28-31 $\approx$ 4-5; in <i>Clematide</i> , <i>Laserpitio</i> , <i>Peucedano</i> , <i>Libanotide</i> , <i>Valeariana</i> in Germania, Italia, Sibiria et Fennia	<i>L. spectabilis</i>
Perithecia gregaria, 70-80 $\mu$ . d.; asci 40-50 $\approx$ 18-22; sporidia 18-22 $\approx$ 6-7; in <i>Potentilla</i> in It. bor.	<i>L. pulchra</i>
Perithecia $\frac{1}{8}$ - $\frac{1}{6}$ mm. d. asc 65-75 $\approx$ 12-16; sporidia 30-34 $\approx$ 5-7; in <i>Gentiana</i> , <i>Spiraea</i> , <i>Lysimachia</i> , <i>Cynancho</i> in Germania et Italia	<i>L. umbrosa</i>
Perithecia sparsa, $\frac{1}{8}$ - $\frac{1}{6}$ mm. d.; asci 80-90 $\approx$ 15-18; sporidia 30-35 $\approx$ 6-7; in <i>Stellaria</i> in Belgio	<i>L. salebricola</i>
Perithecia gregaria, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.: asci 80-90 $\approx$ 15-18; sporidia 40-46 $\approx$ 5-7; in <i>Epilobio</i> in Moravia	<i>L. cylindrospora</i>
Perithecia subgregaria, minuta; asci 150-180 $\approx$ 80-100; sporidia 70-75 $\approx$ 20-22; in <i>Chondrilla</i> in Germania	<i>L. mirabilis</i>
Perithecia sparsa, $\frac{1}{4}$ mm. d.; asci 130-140 $\approx$ 14; sporidia 40 $\approx$ 6, raro 5-septata; in <i>Foeniculo</i> in Gallia	* <i>L. foeniculacea</i>
Perithecia sparsa, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 60-80 $\approx$ 8-9; sporidia 23-32 $\approx$ 4-5; in <i>Thalicstro</i> , <i>Valeriana</i> , <i>Lactuca</i> , <i>Rumice</i> in Norvegia	* <i>L. quadrisepata</i>
Perithecia $\frac{1}{4}$ - $\frac{1}{2}$ mm. d.; asci 70-90 $\approx$ 10-12; sporidia 3-4-septata (an denum quinqueseptata?) 40-45 $\approx$ 6; in <i>Primula sikkimensis</i> in Sina	* <i>L. Delawayi</i>
Perithecia gregaria, pilis, longis, ranosis obsessa, 200-300 $\mu$ . d.; asci 72-85 $\approx$ 8-12; sporidia 27-32 $\approx$ 5-7; in <i>Aconito</i> in Suecia	* <i>L. lasiosphaerioides</i>
<b>D Sporidia quinqueseptata.</b>	
§ Species minores (h. e. sporidia usque 28 vel 30 $\mu$ . longa).	
† In Acotyledoneis parasitaceae.	
Perithecia sparsa, $\frac{1}{8}$ - $\frac{1}{2}$ mm. d.; asci 70-80 $\approx$ 20-24; sporidia 20-23 $\approx$ 6-7; in <i>Cora</i> in Gallia	<i>L. Corae</i>
Perithecia conferta, $\frac{1}{3}$ mm. d.; asci 90-100 $\approx$ 12-14; sporidia 26-34 $\approx$ 8-11; in thallo <i>Stereocaulonis</i> in Germania	<i>L. apocalypta</i>
Perithecia sparsa, 100-140 $\mu$ . d.; asci 60-70 $\approx$ 8-10; sporidia 20-24 $\approx$ 3 $\frac{1}{2}$ -4; in <i>Lycopodio</i> in It. bor.	* <i>L. Campi-Sili</i>
Perithecia parallele disposita 100-150 $\mu$ . d.; asci 90-120 $\approx$ 7-11; sporidia 30-35 $\approx$ 5-6 $\frac{1}{2}$ ; in <i>Equiseto arvense</i> in It. bor.	* <i>L. arvensis</i>
Perithecia sparsa, 100 $\mu$ . d.; asci 30-44 $\approx$ 9-10,5; sporidia 12-16 $\approx$ 3,5; in hymenio <i>Sterei</i> in Africa occ.	* <i>L. fungicola</i>
†† In Monocotyledoneis parasitaceae.	
Perithecia subgregaria vel sparsa, $\frac{1}{7}$ - $\frac{1}{5}$ mm. d.; asci 70-80 $\approx$ 8-10; sporidia 17-20 $\approx$ 4-5; in Rusco in fere tota Europa	<i>L. Rusci</i>
Perithecia gregaria $\frac{1}{3}$ mm. d.; asci 90-100 $\approx$ 8-10; sporidia 18-22 $\approx$ 5; In <i>Yucca</i> et <i>Fourcroya</i> in Am. bor. Austria et Lusitania	<i>L. obtusispora</i>
Perithecia sparsa $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 65-75 $\approx$ 10-12; sporidia 18-20 $\approx$ 5; in <i>Luzula</i> in Germania	<i>L. epicalamia</i>
Perithecia sparsa vel vix 2-3-gregaria $\frac{1}{6}$ - $\frac{1}{4}$ mm. d.; asci 75-90 $\approx$ 8-10; sporidia 22-25 $\approx$ 3 $\frac{1}{2}$ -4 $\frac{1}{2}$ ; in <i>Calamagrostide</i> et <i>Phalaride</i> in Germania, Carniola et Helvetia	<i>L. Fuckelii</i>
Perithecia gregaria $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 60-70 $\approx$ 8-10; sporidia 24-27 $\approx$ 4-5; in <i>Arundine</i> in It. bor.	<i>L. recessa</i>

Perithecia sparsa $\frac{1}{5}$ - $\frac{1}{4}$ mm. d.; asci 70-80 $\approx$ 9-12; sporidia 24-26 $\approx$ 5-6; in <i>Junco</i> in Britannia	<i>L. maritima</i>
Perithecia sparsa vel aggregata, $\frac{1}{5}$ - $\frac{1}{4}$ ; asci 75-85 $\approx$ 9-12; sporidia 24-27 $\approx$ 5-6; in <i>Graminibus</i> in Italia, Germania Suecia, Gallia et Fennia (cum var. <i>Rousseliana</i> in <i>Phleo</i> )	<i>L. culmicola</i>
Perithecia sparsa vel laxe gregaria, $\frac{1}{5}$ - $\frac{1}{4}$ ; asci 70-80 $\approx$ 10-12; sporidia 20-23 $\approx$ 4-6 $\frac{1}{2}$ ; in <i>Typha</i> in Sicilia	<i>L. licateensis</i>
Perithecia sparsa $\frac{1}{8}$ - $\frac{1}{7}$ mm. d.; asci 70-80 $\approx$ 10-12; sporidia 23-25 $\approx$ 4-5; in <i>Nardo</i> in Suecia, Britannia, Belgio et Gallia	<i>L. Nardi</i>
Perithecia sparsa vel subgregaria, $\frac{1}{6}$ mm. d.; asci 60-80 $\approx$ 16-20; sporidia 23-25 $\approx$ 8-9; in <i>Asparago</i> in Fennia (Var. <i>typhiseda</i> in <i>Typha</i> in Algeria)	<i>L. praeclera</i>
Perithecia gregaria vel sparsa, apice setuligera, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 60-70 $\approx$ 10-13; sporidia 22-24 $\approx$ 4-6 (muco obvoluta) in <i>Asparago</i> , <i>Dauco</i> , <i>Solano</i> et <i>Baptisia</i>	<i>L. comatella</i>
Perithecia seriata $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 140-150 $\approx$ 10-12; sporidia 20-23 $\approx$ 7-8; in <i>Phragmite</i> in Belgio et Am. bor.	<i>L. albopunctata</i>
Perithecia sparsa vel gregaria, $\frac{1}{5}$ - $\frac{1}{4}$ mm. d.; asci 75-85 $\approx$ 10-12; sporidia 24-26 $\approx$ 4-5; in <i>Juncis</i> in It. bor. et Britannia	<i>L. norfolkia</i>
Perithecia sparsa, $\frac{1}{3}$ et fere $\frac{1}{2}$ mm. d.; asci 85-95 $\approx$ 11-13; sporidia 23-30 $\approx$ 4-6; in <i>Arundine</i> in It. bor.	<i>L. rhodophaea</i>
Perithecia sparsa, $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; asci 45-55 $\approx$ 10-12; sporidia 25-30 $\approx$ 4-5; in foliis <i>Caricis</i> in Lapponia Sueciae	* <i>L. Caricis</i>
Perithecia epiphylla, semiimmersa, $\frac{1}{8}$ mm. d.; asci 50-70 $\approx$ 10-12; sporidia fusiformia; in foliis <i>Caricis</i> in Hollandia	* <i>L. hemicyptera</i>
Perithecia sparsa, nunc in maculis expallentibus aggregata; asci oblongo-cylindracei; sporidia 25 $\mu$ longa; in foliis <i>Iridum</i> in Britannia et Sibiria asiatica	* <i>L. Vectis</i>
Perithecia in maculis fuscis seriata, 200-250 $\mu$ . d.; asci 90-100 $\approx$ 20; sporidia 28-30 $\approx$ 8-9; in foliis <i>Andropogonis</i> in Am. austr.	* <i>L. Puiggari</i>
Perithecia sparsa, 180-250 $\mu$ . d.; asci 90-95 $\approx$ 30; sporidia 30 $\approx$ 9; in foliis <i>Hierochloes</i> in Nowaja Semlia	* <i>L. Hierochloes</i>
+++ In Dicotyledoneis parasiticae.	
a cauli-ramicolae, rarius fructicolae.	
Perithecia sparsa vel vix gregaria, $\frac{1}{8}$ mm. d.; asci 75-85 $\approx$ 7-9; sporidia 16-21 $\approx$ 3 $\frac{1}{2}$ ; in caulinis <i>herbaceis</i> in Am. bor.	<i>L. tenera</i>
Perithecia sparsa $\frac{1}{8}$ mm. d.; asci 80-90 $\approx$ 8-10; sporidia 22-24 $\approx$ 4-7; in <i>Chenopodio</i> in Fennia	<i>L. nigricans</i>
Perithecia sparsa $\frac{1}{8}$ - $\frac{1}{7}$ mm. d.; asci 55-65 $\approx$ 8-10; sporidia 23-25 $\approx$ 4; in <i>Medicagine</i> in It. bor.	<i>L. Medicaginum</i>
Perithecia sparsa $\frac{1}{8}$ mm. d.; asci 65-70 $\approx$ 9-11; sporidia 27-30 $\approx$ 6; in <i>Chenopodio</i> in Gallia	<i>L. inculta</i>
Perithecia sparsa $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 60-70 $\approx$ 12; sporidia 28 $\approx$ 4,5; in <i>Moro</i> in It. bor.	<i>L. fallax</i>
Perithecia sparsa $\frac{1}{9}$ - $\frac{1}{8}$ mm. d.; asci 50-60 $\approx$ 8-10; sporidia 20-23 $\approx$ 3 $\frac{1}{2}$ -4 $\frac{1}{2}$ ; in <i>Veronica</i>	<i>L. carpogena</i>

- Perithecia sparsa,  $\frac{1}{3}$  et usque fere  $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$  10-14; sporidia 22-25  $\approx$  5-6; (denuo etiam 7-septata) in *Opuntia* in Sicilia *L. Sicula*
- Perithecia gregaria vel sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d. parce setosula; asci 60-70  $\approx$  10-13; sporidia 22-24  $\approx$  4-6, muco obvoluta; in *Baptisia* *Dauco*, *Solano*, et *Asparago* in Am. bor. *L. comatela*
- Perithecia  $\frac{1}{3}$  mm. d., subinde 2-4-connata; asci 100-120  $\approx$  12-16; sporidia 22-25  $\approx$  6-7,5; in *Spiraea* in Fennia *L. Spireae*
- Perithecia nunc sparsa nunc aggregata, 200-300  $\mu$ . d.; asci 70-90  $\approx$  16-20; sporidia 25-28  $\approx$  6-7; in *Salice* in Germania *\*L. Baggei*
- Perithecia laxe gregaria,  $\frac{1}{6}$  mm. d.; asci 70-80  $\approx$  10; sporidia 27-30  $\approx$  5-6; in *Solano Dulcam.* in . . . ? *\*L. sarmenticia*
- Perithecia aggregata, superne rugosa vel setosa (an *Pocosphaeria*?) asci clavati, 2-6-spori; sporidia 42  $\approx$  6 utrinque appendiculigera; in *Vite* in Austria *\*L. appendiculata*
- Perithecia 200-250  $\mu$ . d.; subinde ostiolo lophiostomaceo; asci 80-100  $\approx$  7-8; sporidia 14-15  $\approx$  5, haud raro longitudinaliter divisa; in ramis *Erythrinae* et foliis *Tillandsiae* in Am. merid. *\*L. aerea*
- Perithecia gregaria, minuta,  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; asci 70-75  $\approx$  8-10; sporidia tusiformia; in pedunculis *Cassiae* in Am. bor. *\*L. cassiaecola*
- Perithecia sphaeroideo-depressa; asci 90-100  $\approx$  11-13; sporidia cymbiformi-fusoidea, 20-25  $\approx$  6-7; in *Melandrio* in Groenlandia *\*L. Vahlii*
- Perithecia sparsa; asci 63-70  $\approx$  8-10; sporidia 16  $\approx$  5 (raro 3-4-septata); in pedunculis *Erauthemi* in Sina *\*L. Erauthemi*
- Perithecia sparsa; asci 65-75  $\approx$  7,5-8; sporidia 17-18  $\approx$  5; in cirris *Vitis* in It. bor. *\*L. cirricola*
- Perithecia sparsa, 500  $\mu$ . alta, 200  $\mu$ . lata; asci 80-90  $\approx$  12-15; sporidia 25-30  $\approx$  6-8; in ramis *Cisti* in Gallia *\*L. Cisti*
- Perithecia sparsa vel approximata, asci 60-80  $\approx$  12-14; sporidia 18-22  $\approx$  3-3,5; in *Lonicera Caprif.* in Gallia *\*L. Caprifoli*
- Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci cylindracei; sporidia 15-25  $\approx$  7-8,5; in *Lonicera Periclymeni* in Neerlandia *\*L. Periclymeni*
- aa* foliicolae.
- Perithecia sparsa,  $\frac{1}{12}$ - $\frac{1}{10}$  mm. d.; asci 70-75  $\approx$  8-9; sporidia 20-22  $\approx$  4-5; in *Magnolia* et *Moro* in It. bor. (Adest. var. *Pomona* in *Piro* quoque in It. bor.) *L. Yulan*
- Perithecia sparsa vel laxe gregaria; asci 70-75  $\approx$  8-9; sporidia 20-22  $\approx$  3 $\frac{1}{2}$ -4 $\frac{1}{2}$ ; in *Citro* in It. bor. *L. citricola*
- Perithecia pauca,  $\frac{1}{12}$ - $\frac{1}{10}$  mm. d.; asci 60-70  $\approx$  10-12; sporidia 28-30  $\approx$  4-5; in *Scrophularia* in It. bor. *L. Camilla*
- Perithecia subcuticularia; asci 75-100  $\approx$  15-18; sporidia 39-50  $\approx$  4-5; in *Mertensia* in Am. bor. *L. Mertensiae*
- Perithecia punctiformia; asci 80  $\mu$ . longi; sporidia 25  $\approx$  3; in *Achillea* in It. bor. *\*L. Passerinii*
- Perithecia 200-250  $\mu$ . d. ostiolo subinde lophiostomaceo; asci 80-100  $\approx$  7-8; sporidia 14-15  $\approx$  5 haud raro longitudinaliter divisa; in *Tillandsia* et in ramulis *Erythrinae* in Am. mer. *\*L. aerea*

- Perithecia sparsa vel gregaria, 100 µ. d.; asci 38-40 ≈ 7-8; sporidia 24-30 ≈ 2.5-3; in *Pyrola* in Tyrolia \**L. marginata*
- Perithecia epiphylla; asci clavati; sporidia 22-24 ≈ 6; in foliis *Eustrephorum* in Australia et Nova Caledonia \**L. australis*
- Perithecia in maculis, subtus aeruginosis, supra sordide albis pauca, 75 µ. d.; asci 55-70 ≈ 8-10; sporidia (saepe 4-septata) 20-25 ≈ 3.5-5; in *Fraxino* in Am. bor. \**L. Fraxini*
- §§ Species majores (h. e. sporidia 31 et amplius µ. longa).
- † In Monocotyledoneis parasiticae.
- Perithecia sparsa,  $\frac{1}{10}$  mm. d.; asci 130-140 ≈ 16-18; sporidia 30-32 ≈ 7-8; in *Scirpo Hol.* Parma It. bor. et Loser Salisburgi *L. striolata*
- Perithecia gregaria  $\frac{1}{3}$  mm. d.; asci 130-140 ≈ 16-18; sporidia 38-41 ≈ 7-8, loculis extimis pallidioribus; in *Graminibus majorib.* in Belgio *L. pachycarpa*
- Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 105-115 ≈ 14-16; sporidia 38-42 ≈ 8-10, loculis extimis pallidioribus; in *Graminaceae* quadam in Germania *L. Hanzslinskyana*
- Perithecia subsparsa,  $\frac{1}{8}-\frac{1}{6}$  mm. d.; asci 150-160 ≈ 25-30; sporidia 36-40 ≈ 12-14; in foliis *Dupontiae*, *Airae* et *Alopecuri* in Spetzbergia *L. insignis*
- Perithecia subgregaria,  $\frac{1}{4}-\frac{1}{3}$  mm. d.; asci 140-160 ≈ 20-24; sporidia 38-44 ≈ 10-12; in *Spartina* in Am. bor. *L. Spartinae*
- Perithecia sparsa; asci 100-125 ≈ 15-20; sporidia 30-40 ≈ 7-9; in *Spartina* in Am. bor. \**L. sticta*
- †† In Dicotyledoneis parasiticae.
- a cauli-ramicolae.
- Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 80-90 ≈ 12-14; sporidia 28-32 ≈ 6-7; in *Artemisia* in Germania *L. Artemisiae*
- Perithecia sparsa  $\frac{1}{6}$  mm. d.; asci 100-110 ≈ 10-12; sporidia 32-38 ≈ 4-5; in *Phytumate* in Helvetia et Tyrolia *L. Phytumatis*
- Perithecia gregaria,  $\frac{1}{6}$  mm. d.; asci 90-105 ≈ 8-10; sporidia 30-34 ≈ 4-6; in caulibus *Adenostilis* in Austria *L. Nitschkei*
- Perithecia sparsa,  $\frac{1}{4}-\frac{1}{3}$  mm. d.; asci 80-100 ≈ 9-12; sporidia 36-40 ≈ 4-5; in *Senecione*, *Picrile*, *Erigeronte*, *Bidenti* etc. in Britannia, Germania, Helvetia et Italia *L. ogilviensis*
- Perithecia sparsa vel subgregaria,  $\frac{1}{3}-\frac{1}{2}$  mm. d.; asci 110-120 ≈ 10-14; sporidia 40-45 ≈ 4-5; in *Cruciferis* in Germania, Italia, Britannia, Belgio, Hungaria *L. Sowerbyi*
- Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 65-75 ≈ 12-16; sporidia 32-35 ≈ 4-5; in ramulis *Sanguisorbae* off. in Fennia *L. Sanguisorbae*
- Perithecia  $\frac{1}{3}$  mm. d.; asci 105-120 ≈ 15-18; sporidia 46-50 ≈ 7-9; in *Solidagine* in Germania *L. planiuscula*
- Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 100-110 ≈ 14-16; sporidia 45-50 ≈ 6-7 in *Lepidio* in Am. bor. *L. virginica*
- Perithecia parce gregaria, conoideo-mastoidea,  $\frac{1}{3}$  mm. d.; asci 100-120 ≈ 15; sporidia 50 ≈ 6; in *Plantagine Cinopi* in Gallia \**L. Cynopis*

Perithecia rugulosa; asci 90-12; sporidia 35-5, episporio longitudo  
dinaliter striato; in *Veronica* in Saxonia \**L. striata*

Perithecia 4-8 in caespitulos congesta, vel in lineas elongatas dispo-  
sita; asci clavati; sporidia 35-38-7; in *Geranio* in California \**L. subcaespitosa*

*aa* foliicolae.

Perithecia sparsa  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 110-120  $\approx$  25-30; sporidia 35-  
38  $\approx$  7-9; in *Succisa* in Helvetia *L. Morthieriana*

Perithecia sparsa, 0,14 mm. d.; asci 90-120  $\approx$  25-34; sporidia 36-44  
 $\approx$  10-12; in *Pantagine* in Rhaetia \**L. Winteri*

*E* Sporidia 6-7-septata.

§ Sporidia late fusoidea.

Perithecia sparsa  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 75-80  $\approx$  16-18; sporidia 6-septata  
22  $\approx$  7; in culmis *Sporoboli* in Am. bor. \**L. Sporoboli*

Perithecia sparsa  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 150-160  $\approx$  25-30; sporidia 40-  
45  $\approx$  12-15; in *Ammophila* et *Scirpo* in It. bor. Britannia et Ger-  
mania

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 150-160  $\approx$  18-20; sporidia 35-  
40  $\approx$  10-12; in *Zea* in It. bor. *L. luctuosa*

§§ Sporidia fusoidea vel cylindracea.

† In Acotyledoneis parasiticae.

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 100-110  $\approx$  1-12; sporidia 32-  
35  $\approx$  3-4; in *Lycopodio* in Am. bor. *L. lycopodicola*

†† In Monocotyledoneis parasiticae.

Perithecia sparsa vel seriatim disposita  $\frac{1}{7}$ - $\frac{1}{6}$  mm. d.; asci 55-65  $\approx$   
8-10; sporidia 25-27  $\approx$  3-4; in *Aira* in Hungaria *L. lineolata*

Perithecia gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  8-10; sporidia 25-  
28  $\approx$  3-4; in *Asparago* in Fennia, Italia, Lusitania (adest fornix  
*grisea* in *Sorgho* in It. bor.) *L. asparagina*

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 80-90  $\approx$  8-9; sporidia 23-27  $\approx$  5-6;  
in *Piptathero* in Lusitania *L. conimbricensis*

Perithecia generis; asci cylindracei; sporidia 7-septata, loculis duo-  
bus intermediis maioribus; in foliis *Brachypodii* in It. bor. (Mihi  
incerta)

\**L. sylvatica*

Perithecia 100-400  $\mu$ . d.; asci 100-150  $\mu$ . longi; sporidia 30  $\approx$  4; in  
*Secale* in Austria \**L. Secalis*

Perithecia sparsa; asci clavato-cylindracei; sporidia fusiformia, 7-sep-  
tata; in vaginis *Zeae* in Am. bor. (Mihi dubia) \**L. interspersa*

Perithecia sparsa, minuta; asci 62-70  $\approx$  9-10; sporidia 17-20  $\approx$  5; in  
foliis *Iridis* in It. bor. (aff. *L. Vecti*) \**L. Xiphii*

††† In Dicotyledoneis parasiticae.

*a* microsporae (h. e. sporidia usque 30  $\mu$ . longa).

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 85-95  $\approx$  8-10; sporidia 23-26  $\approx$  5-6;  
in *Crithmo* et *Inula crithmoide* in Gallia *L. rhopalispera*

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; asci 40-50  $\approx$  10-12; sporidia 20-24  
 $\approx$  4-5; in *Sarracenia* in Am. bor. *L. scapophila*

Perithecia sparsa, 300  $\mu$ . d.; asci 90-100  $\approx$  15; sporidia utrinque hya-

lino-appendiculata, 21-24 $\approx$ 5-6; in <i>Saxifragis</i> in Tyrolia (juxta glaciem aeternam)	* <i>L. monotis</i>
aa Macrosporae (h. e. sporidia 31 et amplius $\mu$ . longa).	
Perithecia sparsa vel vix gregaria, $1/4$ mm. d.; asci 70-80 $\approx$ 10-12; sporidia 29-32 $\approx$ 3-4; in <i>Hyperico</i> in Germania	<i>L. Hyperici</i>
Perithecia sparsa, $1/6$ - $1/8$ ; asci 90-100 $\approx$ 10-12; sporidia 34-38 $\approx$ 4-5; in <i>Eupatorio</i> , <i>Betonica</i> etc. in Gallia, Italia, Britannia, Germania et Belgio. (Adest var. <i>ambigua</i> in <i>Eupatorio</i> in Germania et in Italia)	<i>L. agnita</i>
Perithecia sparsa vel vix gregaria, $1/3$ mm. d.; asci 80-90 $\approx$ 12-14; 48-50 $\approx$ 4-5; in <i>Erigeronte</i> in Am. bor.	<i>L. Erigerontis</i>
Perithecia sparsa, $1/5$ - $1/4$ mm. d. ostiolo penicillatim setoso; asci 70-80 $\approx$ 10-12; sporidia 32-36 $\approx$ 5-7; in caulibus variis in Italia, Gallia, Germania, Fennia, Lapponia, Belgio et Britannia	<i>L. modesta</i>
Perithecia subsparsa, $1/4$ mm. d.; asci 70-90 $\approx$ 12-14; sporidia 35-42 $\approx$ 4-5; in caulibus variis praecipue <i>Urticae</i> in Belgio, Britannia, Germania, Gallia, Italia, Suecia et Virginia	<i>L. acuta</i>
Perithecia conferta, $1/4$ - $1/8$ ; asci 90-100 $\approx$ 16-18; sporidia 32-35 $\approx$ 4-5; in <i>Artemisia</i> in Germnia	<i>L. caespitosa</i>
Perithecia sparsa, $1/5$ - $1/4$ ; asci 70-75 $\approx$ 12-16; sporidia 47-50 $\approx$ 4-5 in <i>Satureja</i> in It. bor.	<i>L. fallaciosa</i>
Perithecia $1/4$ - $1/5$ mm. d.; asci 110-112 $\approx$ 16-18; sporidia 42-48 $\approx$ 7-9; in <i>Artemisia</i> in It. bor.	<i>L. helminthospora</i>
Perithecia laxe gregaria, $1/3$ mm. d.; asci 90-100 $\approx$ 10-12; sporidia 38-42 $\approx$ 4; in <i>Achillea Millef.</i> in Helvetia	<i>L. Millefolii</i>
Perithecia sparsa; asci saccato-clavati; sporidia 50 $\approx$ 8; in <i>Artemisia</i> in Africa austr.	* <i>L. cervispora</i>
Perithecia sparsa, areola vinoso-violaceâ insidentia, $1/3$ mm. d.; asci . . . ; sporidia 40-45 $\approx$ 10; in <i>Eryngio</i> in Am. austr.	* <i>L. vinosa</i>
Perithecia sparsa vel approximata; asci 90-100 $\approx$ 10; sporidia 26-34 $\approx$ 6-7; in <i>Euphorbia</i> in Gallia	* <i>L. euphorbieola</i>
Perithecia gregaria vel subseriata 200-250 $\mu$ . d.; asci 75-80 $\approx$ 10; sporidia 45 $\approx$ 3; in . . . (foliis?) in Am. austr.	* <i>L. antarctica</i>
F Sporidia 8-9-vel pluriseptata.	
§ In Acotyledoneis parasitae.	
Perithecia sparsa, $1/4$ mm. d.; asci 105-115 $\approx$ 16-20; sporidia 40-44 $\approx$ 6-7; in <i>Equiseto</i> in Spetzbergia	<i>L. Equiseti</i>
§§ In Monocotyledoneis parasitae.	
Perithecia seriata, $1/4$ mm. d.; asci 60-70 $\approx$ 10-12; sporidia 26-29 $\approx$ 3 $1\frac{1}{2}$ -4; in <i>Sorgho</i> in It. bor. (adest forma seriata in <i>Zea</i> quoque in It. bor.)	<i>L. amphibola</i>
Perithecia sparsa, $1/3$ mm. d.; asci 90-100 $\approx$ 8-10; sporidia 25-29 $\approx$ 3-4; in <i>Andropogone</i> , <i>Secale</i> et <i>Koeleria</i> in Fennia et Italia	<i>L. herpotrichioides</i>
Perithecia sparsa, $1/4$ mm. d.; asci 80-90 $\approx$ 10-13; sporidia 24-28 $\approx$ 4-5; in <i>Dactylide</i> , <i>Cynodontide</i> et <i>Agrostide</i> in It. bor.	<i>L. dactylina</i>
Perithecia sparsa, $1/3$ mm. d.; asci 95-105 $\approx$ 10-13; sporidia 35-38 $\approx$ 5,6; in <i>Graminibus</i> in fere tota Europa et Am. bor.	<i>L. culmiphraga</i>

- Perithecia sparsa  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 85-95  $\approx$  18-20; sporidia 40-50  
 $\approx$  8-10; in *Typha* in Fennia *L. typhicola*
- Perithecia gregaria, media magnitudine, undique pilis ramosis, laxis  
griseis obsita; asci 118  $\approx$  14; sporidia 38  $\approx$  7; in *Phragmite* in Ger-  
mania et Britannia *\*L. Graminis*
- Perithecia sparsa 128 p. d.; asci 72  $\approx$  10; sporidia 30  $\approx$  4; in *Agro-*  
*stide*, *Calamagrostide* et *Poa* in *Helvetia* *\*L. sparsa*
- Perithecia seriata, media magnitudine; asci 120  $\approx$  8; sporidia 16 sep-  
tata, 40-50  $\approx$  3; in *Cynodonte*, *Triticco*, *Secale* etc. in Germania et  
Britannia *\*L. pontiformis*
- Perithecia sparsa vel gregaria, 150 p. d.; asci 72-116  $\approx$  14-22; spo-  
ridia 38-50  $\approx$  6-8; in foliis *Laricis* in Spetzbergia *\*L. consobrina*
- Perithecia plerumque seriata, in lineas  $\frac{1}{4}$ - $\frac{1}{3}$  c.m. longa disposita;  
asci 75-100  $\approx$  22-25; sporidia 25-40  $\approx$  8-10; in culmis *Phragmitis* in  
Am. bor. *\*L. clavicularpa*

\$\$\$ In Dicotyledoneis parasiticae.

- Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 90-100  $\approx$  8-10; sporidia 24-30  
 $\approx$  3-4; in *Robinia* in It. bor. *L. petiolicola*
- Perithecia subgregaria  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 75-85  $\approx$  10-12; sporidia  
40-50  $\approx$  4-5; in *Senecione* in Britannia et Germania *L. derasa*
- Perithecia sparsa  $\frac{1}{7}$ - $\frac{1}{6}$ , asci 60-70  $\approx$  10-14; sporidia 30-34  $\approx$  3-4; in  
aculeis *Rosae* in It. bor. *L. aculeorum*
- Perithecia sparsa  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 130-140  $\approx$  12-15; sporidia 45-  
55  $\approx$  4-6; in *Stapyle* in Am. bor. *L. rubro-tincta*
- Perithecia  $\frac{1}{7}$ - $\frac{1}{6}$  mm. d.; asci 95-105  $\approx$  16-18; sporidia 80-85  $\approx$  4; in  
*Achillea Ptarmica* in Fennia *L. Ptarmicæ*
- Perithecia sparsa  $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  16-18; sporidia 35-40  
 $\approx$  6-8; in *Clementide Vitalba* in It. bor. et Germania (Adest var.  
*clavigera* in *Phytolaccæ* in Am. bor.) *L. Vitalbae*
- Perithecia gregaria  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  14-16; sporidia  
35-40  $\approx$  6-8; in *Aconito* in Tyrolia *L. anthostomoïdes*
- Perithecia sparsa  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 110-120  $\approx$  10-12; sporidia 48-  
50  $\approx$  5; in *Lathyro* in Saxonie *L. multiseptata*
- Perithecia sparsa  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 100-110  $\approx$  8-12; sporidia 35-38  
 $\approx$  3  $\frac{1}{2}$ ; in *Artemisia* in Moravia *L. Kalmusii*
- Perithecia sparsa vel gregaria,  $\frac{1}{4}$ - $\frac{1}{2}$  mm. d.; asci 80-90  $\approx$  12-14;  
sporidia 42-45  $\approx$  3-4; in *Senecione*, *Tanaceto*, *Achillea*, et *Anthemide*  
in Germania, Fennia, Gallia et Lusitania *L. dolioloides*
- Perithecia gregaria  $\frac{1}{3}$  mm. d.; asci 140-150  $\approx$  10-12; sporidia 48-53  
 $\approx$  4-5; in *Brassica Napo* in Germania *L. Napi*
- Perithecia  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d., subgregaria, asci 155-165  $\approx$  10-12; sporidia  
48-52  $\approx$  4-5; in *Urtica* in Germania *L. acutiuscula*
- Perithecia subgregaria, parce setosula,  $\frac{1}{3}$  mm. d.; asci 90-120  $\approx$   
12-14; sporidia 45-47  $\approx$  6-7; in *Salvia* in It. bor. *L. Salviae*
- Perithecia  $\frac{1}{3}$  mm. d. sparsa; asci 110-125  $\approx$  16-29; sporidia 65-75  $\approx$   
5-7; in *Sambuco Ebulo* in It. bor. et Moravia *L. megalospora*

Perithecia gregaria, setis nigris cincta (an <i>Pocospshaeria?</i> ) asci clavati; sporidia 35-40 $\mu$ . longa; in caule <i>herbaceo</i> in Britannia et Germania	* <i>L. pellita</i>
Perithecia minuta, $\frac{1}{7}$ - $\frac{1}{6}$ mm. d.; asci 90-100 $\vee$ 10-12; sporidia 35- 40 $\vee$ 45; in <i>Epilobio Dodonaeo</i> in It. bor.	* <i>L. Cadubriae</i>
Perithecia $\frac{1}{3}$ mm. d.; asci . . . . ; sporidia 70-90 $\vee$ 3,5-4; in caule <i>Drabae</i> in Lapponia rossica	* <i>L. Drabae</i>
Perithecia sparsa, maculâ griseâ insidentia $\frac{1}{3}$ mm. d.; asci 80-85 $\vee$ 13-14; sporidia 30-32 $\vee$ 4; in foliis <i>Populi</i> in It. bor.	* <i>L. Alcides</i>
Perithecia sparsa, vel approximata, majuscula; asci . . . . ; sporidia cylindracea, 50-60 $\vee$ 4; in <i>Lathyro</i> in Gallia	* <i>L. Lathyri</i>
Perithecia sparsa; asci 110 $\vee$ 15; sporidia 50 $\vee$ 6-7; in <i>Plumbagine</i> in Sina	* <i>L. Plumbaginis</i>

#### Clavis analytica specierum generis « *Ceriospora* »

##### A Sporidia concoloria.

Perithecia $\frac{1}{3}$ mm. d.; asci 150 $\vee$ 12; sporidia 40-42 $\vee$ 7-9; in sar- mentis <i>Clematidis</i> in It. boreal. et austr.	<i>C. xantha</i>
Perithecia $\frac{1}{3}$ mm. d.; gregaria; asci 100-110 $\vee$ 17-19; sporidia 35-40 8-10, subhyalina, uniseptata; in sarmenitidis <i>Humuli</i> in Germania, Gallia et Italia	<i>C. Dubyi</i>
Perithecia laxe gregaria vel subsparsa 140-160 $\mu$ . diam.; asci 55- 60 $\vee$ 12; sporidia 38-45 $\vee$ 3-4 chlorina; in foliis <i>Cacti</i> in Ar- gentina	* <i>C. bonaerensis</i>
Perithecia gregaria; asci . . . . ; sporidia fusoidea, 1-septata in <i>Cle- matide</i> in Helvetia (species mihi dubia)	* <i>C. fusispora</i>

##### B Sporidia loculis extimis hyalinis.

Perithecia gregaria $\frac{1}{2}$ - $\frac{2}{3}$ mm. d.; asci 95-115 $\vee$ 10-14; sporidia 18- 22 $\vee$ 7-10 (sine appendic.) in sarmenitidis <i>Clematidis</i> in Am. bor.	<i>C. montaniensis</i>
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#### Clavis analytica specierum generis « *Rebentischia* »

##### A Sporidia loculo infero tantum hyalino.

Perithecia $\frac{1}{6}$ - $\frac{1}{4}$ mm. d.; asci 80-100 $\vee$ 16-17; sporidia 21-23 $\vee$ 6-7 (sine cauda); in sarmenitidis <i>Clematidis</i> in Germania, Britannia, et Austria	<i>R. unicaudata</i>
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##### B Sporidia loculis extimis hyalinis..

Perithecia gregaria vel sparsa, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 80-110 $\vee$ 18-20; sporidia 32-35 $\vee$ 8-10 (cum cauda); in truncis <i>Amygdali</i> et <i>Aceris</i> in Italia et Fennia	<i>R. Massalongii</i>
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#### Clavis analytica specierum generis « *Heptameria* »

Perithecia gregaria, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 110-120 $\vee$ 12-16; sporidia 42-45 $\vee$ 5-7; in caulis <i>Artemisiae</i> in Germania	<i>H. uncinata</i>
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Perithecia gregaria  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 140-150  $\approx$  12-16; sporidia 58-62  $\approx$  9-12; in caulibus *Eupatorii*, *Anthirrhini*, *Scabiosae* etc. et in ramulis emortuis *Helichrysi* etc. in Algeria, Lusitania, Gallia, Italia et Am. bor.

*H. obesa*

**Clavis analytica specierum generis « Chaetomastia »**

**A Sporidia triseptata.**

† asci octospori.

Perithecia gregaria, rarius sparsa,  $\frac{1}{7}$ - $\frac{1}{6}$  mm. d.; asci 50-60  $\approx$  8-9; sporidia 9-12  $\approx$  3-4; in ligno *Coryli* in Fennia

*C. pilosella*

Perithecia laxe gregaria,  $\frac{1}{8}$ - $\frac{1}{7}$  mm. d.; asci 40-45  $\approx$  12-15; sporidia 10-13  $\approx$  5-6; in ligno *putri* in It. bor.

*C. hispidula*

Perithecia  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 70-90  $\approx$  15-18; sporidia 20-25  $\approx$  10; in asseribus *abietinis* in It. bor.

*C. canescens*

Perithecia sparsa vel aggregata, 130-150  $\mu$ . d.; asci 50  $\approx$  6; sporidia 10-11  $\approx$  3; in ramis *Fagi*? in Am. austr.

\**C. fuegiana*

Perithecia subgregaria (?)  $\frac{1}{2}$  mm. d.; asci 100  $\approx$  7; sporidia 14-17  $\approx$  5; in ramo decorticato in Belgio

\**C. sordida*

Perithecia 5-10-gregaria  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci . . . ? sporidia 25-28  $\approx$  6-7; in cortice *Persicae* in Argentina

\**C. cucurbitarioides*

†† asci tetraspori vel sexspori.

Perithecia sparsa vel subgregaria,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 90-100  $\approx$  12 (4-6-spori) sporidia 20-22  $\approx$  6-7; in sarmentis *Rubi* in Fennia

*C. hirtula*

**B Sporidia 5-7-septata.**

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  8-10; sporidia 16-22  $\approx$  5-7 (5-septata) in ligno *Juniperi* in Fennia

*C. juniperina*

Perithecia sparsa,  $\frac{1}{8}$ - $\frac{1}{6}$  mm. d.; asci 50  $\approx$  9; sporidia 10-20  $\approx$  4-6; (7-septata, raro septulo longitudin. accedente); in ligno *putri* in Belgio

*C. aculeata*

**Clavis analytica specierum generis « Ohleria » (1)**

**A Sporidia concoloria.**

§ Perithecia rugosula.

Perithecia  $\frac{1}{3}$  mm. d.; asci 75-85  $\approx$  6-8; sporidia 15-18  $\approx$  3-5; in ligno arborum in Italia, Gallia, Germania et Am. bor.

*O. rugulosa*

Perithecia . . . . .; asci 90  $\approx$  15; sporidia 18  $\approx$  4; ad lignum in Saxoniam

\**O. obducens*

§§ Perithecia plicata.

Asci 112  $\mu$ . longi; sporidia 16  $\approx$  4; in radicibus *Fagi* in Germania \**O. modesta*

**B Sporidia loculis extinis hyalinis.**

Sporidia 15-18  $\approx$  5-6; in sarmentis *Clematidis* in Gallia

\**O. Clematidis*

(1) *O. adiecta* ex scrutatione speciminum authenticorum ad *O. rugulosam* pertinet.

**Clavis analytica specierum generis « Cariospora » (1)***A Perithecia putaminicola.*Sporidia 5-septata 90-100  $\approx$  32-36; in putamine *Amygdali* in Italia,

Germania et America

*C. Putaminum**B Perithecia lignicola.*Sporidia 1-septata (dignum 5-septata?) 85-90  $\approx$  37-40; in ligno in  
Rhenogovia et BritannicaSporidia 5-septata 80  $\approx$  20, utrinque hyalino-mucronata; in ramis  
*Coffeae* in Venezuela*C. callicarpa**\*C. Coffeae**C Perithecia culmicola.*Sporidia 1-septata, utrinque acuminata, subamygdaliformia vel acute  
ellipsoidea, 35-45  $\approx$  16-20; in culmis *Arundinariae* in Am. bor. *\*C. Longloisi***Clavis analytica specierum generis « Chaetosphaeria » (2)***A Perithecia denum collapsa.**§ sporidia 3-septata.*Status conidicus *Cladotrichum* conidiis 1-septatis; sporidia 25  $\mu$ .  
longa 3-septata; in ramis dejectis in Am. bor.*\*C. phaeostromoides*Status conidicus *Helminthosporium*; asci 60-70  $\approx$  10-12; sporidia 18-  
22  $\approx$  6-7; in ramis emortuis in Italia, Germania, Gallia et Ceylon*C. bilyalina*Hyphae steriles; sporidia fusoidea, cymbiformia; in *Rubo* in Gallia  
Belgio et Britannia*\*C. callimorpha*Hyphae steriles; sporidia hyalina; in ramis *Castaneae* in Italia*C. parvula*Hyphae fuscae, cutenulas conidiorum gerentes; sporidia 13-15  $\approx$  4-5;  
in ligno *quercino* in Gallia et Britannia*C. atrobarba**§§ Sporidia 4-vel pluriseptata.*Hyphae articulo ultimo subcupulato, in conidia, cuneata, 12  $\approx$  7, ab-  
eunte; sporidia 4-septata, fuscidula, 20-25  $\approx$  4-5; in ligno *Ulni* in  
Britannia*\*C. eupulifera*Hyphae setulosae steriles; subiculus fibrillosus, radiatus; sporidia  
4-septata 50  $\approx$  15, brunnea; in *Rubo* in Gallia*\*C. calostroma*Status conidicus *Helminthosporium*; sporidia 7-septata, 44-50  $\approx$  8-10,  
fusco-lutescentia; in ramis *Carpini* in Slavonia*\*C. pezizaeformis**B Perithecia non collapsa.**§ Byssus vel tomentum amoene colorata (h. e. non nigra).**† Sporidia triseptata.*Subiculum fulvum, breve; sporidia 35-38  $\mu$ . longa, fuliginea; in li-  
gno in Am. bor.*\*C. leonina*Subiculum rigidum, flavum; perithecia stromate piloso insidentia,  
sporidia 20  $\mu$ . longa; in radicibus *Betulae* in Am. bor.*\*C. pannicola*

(1) Generum monotypicorum vel species suas tantum ampletentium clavem analyticam saepe omisi.

(2) *C. exilem* (Schw.) Sacc. imperfecta diagnosi in clave inserere nequivit.

Subiculum brunneo-luteum; sporidia quadriguttata; in <i>Angelica</i> in Gallia	* <i>C. Angelicae</i>
Subiculum atro-rubiginosum; sporidia demum pallide fusca, 20-24 ≈ 4-6; in ligno putri in Am. bor.	* <i>C. rubiginosa</i>
Subiculum e filis rigidis, flavis efformatum; sporidia 20-25 μ. longa; in <i>Cyrilla</i> in Am. bor.	* <i>C. flavo-compta</i>
Subiculum griseolo-brunneum, ex hyphis longissimis formatum; sporidia 10-12,5 ≈ 6-5; in <i>doliis</i> vetustis in Am. bor.	* <i>C. longipila</i>
†† Sporidia 4-5-septata.	
Subiculum flavo-lanatum; sporidia 16 ≈ 18 μ. longa; in culmis <i>Mo-</i> <i>nocotyledonearum</i> in Ceylon	* <i>C. xanthotricha</i>
Subiculum brunneo-ferrugineum; sporidia 4-5-nucleata (forte demum 3-5-septata) 45-50 ≈ 8; in ramulis <i>Calluna</i> in Italia, Gallia et Bri- tannia	* <i>C. pileo-ferruginea</i>
§§ Byssus vel tomentum nigra.	
† Sporidia triseptata.	
α Sporidia apicibus hyalinis.	
Subiculum hyphoideum, corticolum; perithecia 360 μ. d., setis ob- tusis ornata; sporidia 16 ≈ 6; in cortice <i>Eucalypti</i> in California	* <i>C. ornata</i>
Subiculum crassum, densum, lignicolum; sporidia 25-30 ≈ 7-9; in ra- mis in Europa et Am. bor.	<i>C. phacostroma</i>
Subiculum floccosum, lignicolum; conidia, helicoidea; sporidia 13- 15 ≈ 3-4, saepe murali divisa; in lignis in Am. bor.	<i>C. parvicensa</i>
Subiculum laxum ex hyphis rigidis, conidiophoris formatum, ligni- colum; sporidia 13-15 ≈ 4-5; in ligno <i>quercino</i> in Gallia et Britannia	<i>C. innumera</i>
αα Sporidia concoloria.	
Subiculum crustaceum, capnodiaceum, epiphyllum; sporidia unisep- tata, 4-guttata, 12 ≈ 3; in foliis <i>Alangii</i> in Calcutta, Ind.	* <i>C. indica</i>
Subiculum laxum, helminthosporioideum, lignicolum; sporidia 1- dein 3-septata; in ligno <i>Carpini</i> in Slavonia	* <i>C. Saccardiana</i>
Subiculum pannosum, repens, caulicolum; sporidia 3-septata, 24 ≈ 7-7,5; in caule <i>Epilobii</i> in Belgio	* <i>C. Crepini</i>
Subiculum rigidum, ramicolum; sporidia 22-24 ≈ 8; ad ramos in Am. bor.	* <i>C. holophaea</i>
†† Sporidia 3-5-septata.	
Subiculum crustaceum; tomentum squamuoso-pulveraceum; spori- dia 20 ≈ 40 μ. longa; in ligno denudato in Am. bor.	* <i>C. squamulata</i>

**Clavis analytica specierum generis « Melanomma » (1)**

A Sporidia biseptata.

Perithecia sparsa vel subapproximata; asci 80 ≈ 6; sporidia 10 ≈ 5;  
in Rusco in Gallia

\**M. Brunaudii*

(1) *M. pyriostictum* Cooke (Sacc. Suppl. Syll. I. p. 808) et *M. inspissum* (Schw.) Cooke. (Sacc. I. c.) brevitate diagno-  
sum mihi dubia sunt et in clave inserere nequivi. *Trem. tornata* (B. et C.) Cooke (Sacc. I. e. 814) est follicula quare potius  
*Leptosphaeria* videtur.

*B Sporidia triseptata.*

§ Sporidia concoloria vel loculis extimis vix pallidioribus.

† Sporidia disticha (vel saltem superne disticha).

Perithecia gregaria, $\frac{1}{4}$ mm. d.; asci 45-55 $\approx$ 6-8; sporidia 10-12 $\approx$ 3-5; in ligno <i>pineo</i> in Fennia	<i>M. Pulviscula</i>
Perithecia gregaria, minuta, $\frac{1}{10}$ - $\frac{1}{7}$ mm. d.; asci 30-45 $\approx$ 8-10; sporidia 12-14 $\approx$ 4-5; in stromatibus <i>Hypoxyli</i> in Am. bor.	<i>M. Commonsii</i>
Perithecia sparsa vel gregaria, $\frac{1}{4}$ mm. d. asci 60-90 $\approx$ 6-8; sporidia 14-18 $\approx$ 4-5; in ligno <i>Abietis</i> et <i>Pistaciae</i> in Italia et Gallia	<i>M. Sylvanum</i>
Perithecia sparsa vel gregaria, $\frac{1}{4}$ mm. d.; asci 50-55 $\approx$ 7-8; sporidia 12-14 $\approx$ 3-4; in <i>Sambuco</i> et <i>Erythrina</i> in Italia, Gallia, Britannia Belgio et Am. bor.	<i>M. fuscidulum</i>
Perithecia sparsa $\frac{1}{4}$ - $\frac{1}{6}$ mm. d.; asci 50-60 $\approx$ 10-12; sporidia 15-18 $\approx$ 5-7; in ramis <i>Salicis</i> in It. bor.	<i>M. minutum</i>
Perithecia gregaria, $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; asci 80-90 $\approx$ 10-12; sporidia 20-22 $\approx$ 4-5; in ligno <i>pineo</i> et <i>lonicerino</i> in Fennia	<i>M. dissectum</i>
Perithecia gregaria $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; asci 90-100 $\approx$ 12; sporidia 22-26 $\approx$ 5; in ligno <i>Sorbi</i> in Fennia	<i>M. Holmskjoldii</i>
Perithecia gregaria $\frac{1}{3}$ mm. d.; asci 100-120 $\approx$ 12-14; sporidia 21-25 $\approx$ 7-9; in ramis <i>Salicis</i> in Fennia	<i>M. cinereum</i>
Perithecia gregaria vel sparsa, $\frac{1}{3}$ mm. d.; asci 90-100 $\approx$ 8-11; sporidia 20-24 $\approx$ 6-8; in ramis <i>Aceris</i> et <i>Tamaricis</i> in Italia et Gallia	<i>M. melium</i>
Perithecia $\frac{1}{5}$ - $\frac{1}{4}$ mm. d.; asci 70-80 $\approx$ 12-15; sporidia 18-20 $\approx$ 6-8; in asso <i>pin o</i> in Germania	<i>M. buellioides</i>
Perithecia sparsa vel dense gregaria, $\frac{1}{8}$ - $\frac{1}{2}$ mm. d. asci 80-100 $\approx$ 10-14; sporidia 25-30 $\approx$ 6-8; in ligno vetusto arborum in fere tota Europa	<i>M. pertusum</i>
Perithecia sparsa; asci clavati; sporidia 16 $\approx$ 5; in ligno <i>pineo</i> in Tyrolia	* <i>M. Heugleri</i>
Perithecia sparsa vertice impressa; asci 88 $\approx$ 10; sporidia 20 $\approx$ 5; in ligno <i>pineo</i> in Helvetia	* <i>M. sparsum</i>
Perithecia sparsa 200-300 $\mu$ . d.; asci 160-170 $\approx$ 30-32; sporidia 34-38 $\approx$ 14-16; in radicibus <i>Castaneae</i> in Apennino sup.	* <i>M. Gibellianum</i>
Perithecia sparsa vel gregaria; asci teretes; sporidia 15 $\mu$ . longa; in fragmentis <i>Coryli</i> in It. bor.	* <i>M. Verrucaria</i>
Perithecia gregaria vel crustaceo-congesta 200-300 $\mu$ . d.; asci 68-92 $\approx$ 10-13; sporidia 18-27 $\approx$ 6-7; in fructibus calycibusque <i>Dryalis</i> in Suecia	* <i>M. Dryadis</i>
Perithecia sparsa; asci clavati; sporidia 25-30 $\approx$ 8; in ramis <i>Fraxini</i> in Britannia	* <i>M. lunarium</i>
Perithecia sparsa; asci 75 $\approx$ 10; sporidia 16-23 $\approx$ 5-7; in ligno <i>Populi</i> in Gallia	* <i>M. Roumegueri</i>
Perithecia sparsa vel gregaria, 110-130 $\mu$ . d.; asci 40-50 $\approx$ 8-10; sporidia 10-12 $\approx$ 3-4; in <i>Diatrype Stigma</i>	* <i>M. parasiticum</i>
Perithecia subcaespitosa; asci clavati; sporidia 25 $\approx$ 6; in <i>Pino</i> in Am. bor. (?)	* <i>M. ramicolum</i>

- Perithecia subsparsa,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 140-150  $\approx$  12-14; sporidia 40-52  $\approx$  8 appendiculata; in culmis *Bambusae* in Malacca *M. tornatum*
- Perithecia sparsa conica 1-1 $\frac{1}{2}$  mm. d.; asci . . . . .; sporidia 45-48  $\approx$  9-11 in ligno Ceylon *M. Vesuvius*
- Perithecia sparsa.  $\frac{1}{2}$  mm. d.; asci 150-170  $\approx$  18-22; sporidia 36-42  $\approx$  10; in *Salice* in Am. bor. *M. Langloisii*
- †† Sporidia monosticha.
- Perithecia laxe gregaria  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 110-120  $\approx$  9-11; sporidia 16-18  $\approx$  6-7; in ligno *Sorbi*, *Ulmi*, *Alni* etc. in Fennia, Tyrolia et Am. bor. *M. sanguinarium*
- Perithecia conferta,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  9-11; sporidia 13-16  $\approx$  6-7; in ramis *Rhamni* et *Punicae* in Gallia *M. Granati*
- Perithecia gregaria  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 70-80  $\approx$  10-12; sporidia 12-14  $\approx$  5-6; in *Pruno* et *Betula*, in fere tota Europa *M. Aspegrenii*
- Perithecia subsparsa,  $\frac{1}{3}$  mm. d.; asci 100-115  $\approx$  14-16; sporidia 20-23  $\approx$  7-8; in ligno *pineo* in Britannia et *populino* in Am. bor. *M. surrectum*
- Perithecia sparsa vel in corticis rimis caeptitose nidulantia; asci cylindracei; sporidia 12  $\approx$  4; in *Pruno* in Germania *\*M. subsparsum*
- Perithecia discreta, 400  $\mu$ . d.; asci 90-100  $\approx$  7-8; sporidia 16-17  $\approx$  6-6,2; in *Acero* in It. bor. *\*M. Cubonianum*
- Perithecia sparsa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 80-90  $\approx$  7-9; sporidia 15-18  $\approx$  4-5; in cortice *Aceris* in Fennia *M. erraticolum*
- Perithecia dense gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  8-10; sporidia 15-17  $\approx$  4-6; in lignis in fere tota Europa et Am. bor. *M. Pulvis-pyrius*
- Perithecia dense gregaria,  $\frac{1}{2}$  mm. d.; asci 120-130  $\approx$  7-9; sporidia 17-20  $\approx$  5-7; in *Rhododendro* in Tyrolia, Styria, Italia et Belgio *M. Rhododendri*
- Perithecia 2-8-congregata; asci cylindracei; sporidia 10  $\approx$  6; in *Rhododendro* in Germania *\*M. rhododendrophilum*
- Perithecia dense gregaria  $\frac{1}{3}$  mm. d.; asci 80-90  $\approx$  8-9; sporidia 18-20  $\approx$  4-5; in ramulis *Rhamni*, *Hippophaes* et *Populi* in It. bor. *M. alpinum*
- Perithecia caespitosa vel sparsa; asci 96  $\approx$  12; sporidia 16  $\approx$  6; in ramis *Salicis* in Germania *\*M. Hendersoniae*
- Perithecia subgregaria; asci 128  $\approx$  8; sporidia 10  $\approx$  4; in cortice *Fagi* in Germania et ad corticem *Bomplandiae* et *Cascarillae* in crusta *Lichenum* in Am. bor. *\*M. porphyrostomum*
- Perithecia . . . . .; asci cylindracei; sporidia 14  $\approx$  6; in ligno *Fagi* in Germania *\*M. seminudum*
- Perithecia gregaria; asci 4-spori; sporidia 20  $\approx$  10; in nucleo fructus *Amygdali* in Algeria *\*M. pyrenogenum*
- Perithecia densiuscula aggregata, 180-250  $\mu$ . d.; asci 75-110  $\approx$  6-8; sporidia 12-15  $\approx$  5-5,5; in ramis *Pernetiae*, *Ribis* etc. in tota Fuegia Am. austr. *\*M. australe*
- Perithecia acervulata, 0,4 mm. d.; asci . . . . .; sporidia 21-24  $\approx$  6-9; in *Rubo* in Fennia *\*M. rubinum*
- Perithecia  $\frac{2}{3}$ -1 mm. d.; asci 120-140  $\approx$  13-16; sporidia 22-30  $\approx$  9-12; in *Theobromate Cacao* in Africa occ. *\*M. Henriquesianum*

- Perithecia gregaria, 0,3-0,4 mm. d.; asci cylindracei; sporidia 18-  
22  $\approx$  8; in *Salice* in Slavonia \**M. taphrinoides*
- Perithecia gregaria, 0,5 mm. d.; asci tenues; sporidia 18-21  $\approx$  4-5;  
in ligno putri in Hollandia \**M. hendersonioides*
- Perithecia 200-250  $\mu$ . d. ostiolis e latere compressis; asci cylindra-  
cei 85-95  $\approx$  10; sporidia ut videtur monosticha, 18-20  $\approx$  4-5; in ra-  
mis *Mayteni* in Fuegia Americae austr. \**M. lophiostomoides*
- §§** Sporidiis loculis extimis pallidioribus vel hyalinis.
- †** Sporidia disticha vel subdisticha.
- Perithecia gregaria,  $1\frac{1}{3}$ - $1\frac{1}{2}$  mm. d.; asci 120-130  $\approx$  12-15; sporidia  
28-30  $\approx$  7-8; in ligno *Fraxini* in Britannia *M. anglieum*
- Perithecia gregaria vel sparsa  $1\frac{1}{3}$ - $1\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  18-20;  
sporidia 28-32  $\approx$  9-11; in trunculis *Globulariae* et *Medicaginis*, at-  
que ad asseres *pineos* in It. bor. et Germania *M. dubiosum*
- Perithecia gregaria,  $1\frac{1}{3}$ - $1\frac{1}{2}$  mm. d.; asci 40-45  $\approx$  8-12; sporidia 14-16  
5-6 (in var. *majus* 22-24  $\approx$  7-9); in putaminibus *Olearum* et in nu-  
cibus *Caryae* in It. bor. et Am. bor. *M. nuclearium*
- Perithecia sparsa,  $1\frac{1}{4}$ - $1\frac{1}{3}$  mm. d.; asci 75-90  $\approx$  12-15; sporidia 20-2  
 $\approx$  6-7; in corticibus in Abissinia *M. Passerinianum*
- Perithecia subsparsa,  $\frac{1}{4}$  mm. d.; asci 150-170  $\approx$  10-12; sporidia 25-  
28  $\approx$  8; in assere ripario (*pineo?*) in Germania *M. p'eurostomum*
- Perithecia conferta,  $\frac{1}{3}$  mm. d.; saepe subcylindrica,  $\frac{1}{2}$  mm. alta;  
asci 140-160  $\approx$  18  $\approx$  20; sporidia 30-40  $\approx$  10; in corticibus in Australia *M. congestum*
- Perithecia sparsa vel parce gregaria; asci 125-160  $\approx$  16; sporidia 20-  
25  $\approx$  8-10; in cortice *Betulae* in It. bor. \**M. Curestiae*
- ††** Sporidia monosticha.
- Perithecia sparsa, mycelio basi cincta,  $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$   
10-14; sporidia 20-23  $\approx$  5-6; in cortice *Betu'ae* in Sibiria *M. subdispersum*
- Perithecia innata, conica; asci ..; sporidia 40  $\approx$  8; in ligno in Ceylon \**M. agnoegystis*
- Perithecia hinc inde subaggregata,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d. asci 130-140  $\approx$  10;  
sporidia 70  $\approx$  7; in ramis *Salicis* in Gallia \**M. trunecatulum*
- Perithecia superficialia; asci 135  $\approx$  15; sporidia 25  $\approx$  10; in radicibus  
*Pruni* in Gallia \**M. rupefortense*
- Perithecia dense gregaria, circ. 1 mm. d.; asci 150-160  $\approx$  8-10; spo-  
ridia 14-16  $\approx$  7-8; in putamine *Persicae* in Madeira \**M. Fritzii*
- Sporidia pluriseptata.
- §** Sporidia 4-5-septata.
- †** Sporidia concoloria.
- a** Sporidia disticha.
- Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 160-170  $\approx$  14-17; sporidia 35-38  
 $\approx$  8-10; in ligno *Pini* in Fennia *M. hydrophilum*
- Perithecia sparsa vel gregaria,  $\frac{1}{2}$  mm. d.; asci 170-190  $\approx$  20-25;  
sporidia 28-35  $\approx$  11-13; in corticibus *Oleae* in Italia, Austria, Gallia  
et Germania *M. Olearum*
- Perithecia  $\frac{1}{3}$  mm. d.; subinde ligno immersa; asci 110-120  $\approx$  18-20;  
sporidia 32-34  $\approx$  10-12; in ligno *Quercus*, *Mori* et *Tiliae* in Italia *M. Passerinii*

- Perithecia subcongesta, 300-350  $\mu$ . d.; asci 85-90  $\times$  12-13; sporidia 22-25  $\times$  6.5; in *Salvia?* in Am. bor. \**M. occidentale*
- Perithecia subsparsa 0.3-0.5 mm. d.; asci . . . . ; sporidia (disticha?) 13-18  $\times$  5-6; in ramulis *Viburni* in Fennia \**M. crypticum*
- Perithecia sparsa  $1\frac{1}{2}$ - $3\frac{1}{4}$  mm. d.; asci 73-80  $\times$  18-20; sporidia 22-27  $\times$  6-7; in cortice *Artemisiae* in Am. bor. \**M. tetonense*
- Perithecia conferta; asci longe stipitati, clavati; sporidia 5-6-septata, oblongo-cylindracea; in ramulis *Fraxini* in Gallia \**M. Fraxini*
- b Sporidia monosticha.
- Perithecia sparsa 1 mm. d.; asci 105-115  $\times$  10-12; sporidia 18-22  $\times$  7-8; in corticibus in Malacca *M. clypeatum*
- Perithecia sparsa; asci cylindracei; sporidia monosticha, 4-septata, 10  $\times$  6-7; in corticibus in Borneo \**M. Beccarianum*
- $\ddagger$  Sporidia loculis extimis pallidioribus, subhyalinis.
- Perithecia sparsa,  $1\frac{1}{2}$  mm. d.; asci 160-175  $\times$  18-24; sporidia 38-42  $\times$  14-16; in ligno *Quercus* in It. bor. *M. mundum*
- §§ Sporidia 7-9-septata.
- $\dagger$  Sporidia disticha.
- Perithecia sparsa,  $1\frac{1}{4}$  mm. d.; asci 100-110  $\times$  12-14; sporidia 28-30  $\times$  4-5; in ligno *Quercino* in Am. bor. *M. pachyaseum*
- Perithecia gregaria  $1\frac{1}{3}$ - $1\frac{1}{2}$  mm. d.; asci 115-125  $\times$  12; sporidia 46-56  $\times$  6; in ramis *Baccharidis* in California *M. seminis*
- Perithecia gregaria vel sparsa,  $1\frac{1}{2}$ - $2\frac{1}{3}$  mm. d.; asci 220-240  $\times$  30-35; sporidia 85-95  $\times$  16-20; in lignis et corticibus, in Germania, Ardennae et America *M. callicarpum*
- Perithecia subsparsa  $1\frac{1}{2}$ - $3\frac{1}{4}$  mm. d.; asci 160-180  $\times$  18-24; sporidia 40-42  $\times$  11-13; in cortice adhuc vegeto *Cerasorum* in It. bor. *M. Lichenopsis*
- Perithecia sparsa vel gregaria,  $1\frac{1}{2}$  mm. d.; asci 150-180  $\times$  20-30; sporidia 40-50  $\times$  12-14; in ramis *Pini*, *Berberidis*, *Rhamni*, *Crataegi* in Germania et Gallia. *M. megalosporum*
- Perithecia  $1\frac{1}{4}$  mm. d.; asci 160-170  $\times$  50-55; sporidia 8-septata. . . ! in ligno secto in Belgio \**M. fallax*
- Perithecia gregaria,  $1\frac{1}{4}$ - $1\frac{1}{2}$  mm. d.; asci tereti-clavulati; sporidia 26-30  $\times$  6; in ligno *Populi* \**M. populinum*
- $\ddagger$  Sporidia monosticha.
- Perithecia sparsa, 400  $\times$  600  $\mu$ . d.; asci 150-200  $\times$  14; sporidia 7-9-septata, septis crassis, nigris, 30-40  $\times$  10-12; in ramis *Escalloniae* in Am. austr. \**M. nigriseptum*

#### Clavis analytica specierum generis « Rhynchosphaeria »

A Species minores.

§ Sporidia 3-septata

Perithecia gregaria  $1\frac{1}{5}$ - $1\frac{1}{4}$  mm. d.; asci 80-90  $\times$  12-15; sporidia 18-20  $\times$  6-7; in ramis *Citri* in It. bor.

*R. longicollis*

- Perithecia gregaria  $\frac{1}{3}$  mm. d.; asci 35-45  $\times$  6; sporidia 10-13  $\times$  3; in culmis *Arundinis* in It. bor. *R. ceratophora*  
 Perithecia gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 70-100  $\times$  12-15; sporidia 18-20  $\times$  5-6; in ligno putri in Belgio *R. ambigua*

§§ Sporidia 5-septata.

- Perithecia sparsa; asci 70  $\times$  6; sporidia 18-20  $\times$  4-5; in stipitibus *Nipa* in Borneo *R. Cesatianum*

B Species maiores.

- Perithecia dense gregaria, 1 mm. d.; ostioli usque 5 mm. longi; asci 120-150  $\times$  14-18; sporidia 60-70  $\times$  8, septemseptata; in ligno putri in Ceylon

*R. Irpex*

**Clavis analytica generis « Sporormia » (1)**

A Sporidia tetramera.

§ Species minores (h. e. sporidia usque 65  $\mu$ . longa).

Sporidia inter 25-35  $\mu$ . longit; et 4-6  $\mu$ . crassit; perithecia  $\frac{1}{10}$ - $\frac{1}{3}$  mm. d.

<i>S. Notarisii</i>
<i>S. leporina</i>
<i>S. minima</i>
<i>S. pulchella</i>
<i>S. leptosphaeroides</i>
* <i>S. Brassicæ</i>
* <i>S. elegans</i>
<i>S. ambigua</i>
<i>S. lageniformis</i>
<i>S. intermedia</i>
<i>S. grandispora</i>
* <i>S. fuegiana</i>
* <i>S. patagonica</i>
* <i>S. obliquisepta</i>
* <i>S. australis</i>
* <i>S. cannabina</i>

Sporidia inter 40-65  $\mu$ . longitudinis et 7-13  $\mu$ . crassitudinis; perithecia usque  $\frac{1}{2}$  mm. d.

§§ Species maiores (h. est sporidia 66 et ultra  $\mu$ . longa).

Sporidia 85-110  $\times$  18-22; asci 280-300  $\times$  38-40; in fimo *ovino* in It. bor. et Germania

*S. Spegazzinii*

Sporidia 120-140  $\times$  20-22; asci 260-300  $\times$  50-60; in fimo *ovino* et *vacino* in Sellandia, It. bor. et Moravia

*S. gigantea*

B Sporidia pentamera vel heptamera.

Sporidia 80  $\times$  16-17, quinquelocularia; in fimo *Cuniculorum* in Hollandia

*S. pentamera*

Sporidia 42  $\mu$ . longa septemlocularia; in fimo *Capreolorum* in Germania

*S. vexans*

Sporidia 72-80  $\times$  18-22, septemlocularia; in fimo *Cuniculorum* et *Anserum* in Thuringia, Moravia, Spitzbergia, Fennia et Am. bor.

*S. heptamera*

(1) Genus hoc species minores valde affines amplectitur; carum tantum sectiones in clave disposui.

*C* Sporidia octomera.

§ Species minores.

† Asci longe stipitati.

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 115-125  $\approx$  14-18 (p. sp.) sporidia 42-45  $\approx$  9; in fimo *suino*, *caprino* et *Tetraonis* in Germania, Britannia, et Italia

*S. octomera*

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 160-180  $\approx$  22-26 (p. sp.) sporidia 55-60  $\approx$  10-12; in fimo *leporino*, rarius *ovino*, in Moravia

*S. corynespora*

Perithecia sparsa, vel adproximata; asci 108-120  $\approx$  20 (p. sp.) sporidia 40-44  $\approx$  8; in ligno *populeo* putri in It. bor.

\**S. ticinensis*

†† Asci breviter stipitati.

Perithecia sparsa, 220-250  $\mu$ . d.; asci 140-180  $\approx$  18-21; sporidia 50-60  $\approx$  8-10; in fimo *vaccino* in Germania

*S. commutata*

Perithecia immersa sparsa (?); asci 160-165  $\approx$  21; sporidia 45  $\approx$  7; in fimo *ovino* in Gallia

\**S. octoloculata*

Perithecia plus minus gregaria, 180-220  $\mu$ . d.; asci 120-150  $\approx$  18-21; sporidia 33-40  $\approx$  7-9; in fimo *leporino* et *ovino* in Germania

\**S. pascua*

§§ Species majores.

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 160-180  $\approx$  28-32; sporidia 80-95  $\approx$  14-16; in fimo *leporino* in Belgio

*S. affinis*

Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 200-220  $\approx$  40-45; sporidia 110-120  $\approx$  13-15; in fimo *leporino* in Moravia

*S. insignis*

Perithecia gregaria,  $\frac{3}{4}$ -7 mm. d.; asci 136  $\approx$  24; sporidia 72  $\approx$  9; in ligno in liquido ammoniacali macerato in Germania

\**S. gigaspora*

Perithecia sparsa, 420  $\mu$ . d.; asci 280-290  $\approx$  31-40; sporidia 5-6-7-8-  
mera, 62-75  $\approx$  14-19; in fimo *Cuniculorum* in Thuringia

\**S. variabilis*

*D* Sporidia 9-plurilocularia.

§ Sporidia in asco parallelo stipata.

Perithecia sparsa,  $\frac{1}{10}$ - $\frac{1}{8}$  mm. d.; asci 70-80  $\approx$  16-18; sporidia 46-50  $\approx$  4, 15-locularia; in fimo *vaccino* in Italia, Germania et America bor.

*S. fimetaria*

§§ Sporidia 1-3-sticha.

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. d.; asci 170-200  $\approx$  20-24 (p. sp.) sporidia 60-76  $\approx$  8-9, 12-14-cellularia; in fimo *Cuniculorum* in Belgio

\**S. Marchaliana*

Perithecia sparsa vel laxe gregaria, 350-450  $\mu$ . d.; asci 140-150  $\approx$  25-30; sporidia 45-65  $\approx$  5-6, 11-13 cellularia; in fimo *Bereniclae antarcticae* in Am. austr.

\**S. antaretica*

Perithecia sparsa (?) 500-600  $\mu$ . alta, asci 240-260  $\approx$  18-21 (p. sp.) sporidia 70-90  $\approx$  9-11, 13-15-locularia; in fimo *Cuniculorum* in Austria

\**S. immersa*

Perithecia sparsa,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d.; asci 250-342  $\approx$  50-60; sporidia 10-13 locularia, 112-152  $\approx$  14-16; in fimo *vaccino* in Am. bor.

\**S. herculea*

**Clavis analytica specierum generis « Stuartella »****A Sporidia triseptata.**

Perithecia sparsa vel gregaria, et confluentia,  $\frac{1}{2}$  mm. d.; asci 150-160  $\approx$  14-16; sporidia 38-42  $\approx$  8-10; in ligno *Salicis*, *Ribis*, *Louceriae* et *Quercus* in Gallia et Italia *S. formosa*

**B Sporidia pluriseptata.**

Perithecia gregaria, maiuscula  $\frac{3}{4}$  mm. d.; asci clavato-cylindracci; sporidia 40-50  $\approx$  8-10; in ligno decorticato in Britannia \**S. Carlylei*

Perithecia dense gregaria, ovata, 330  $\mu$ . d.; asci 130  $\approx$  22; sporidia septata « (tri-vel quinquespata, vel amplius?) » 35-45  $\approx$  11-15; in caulis *Artemisiae* in Am. bor. \**S. suleata*

**Clavis analytica specierum generis « Kalmusia »****A Sporidia distica.****§ Asci longe stipitati.**

Perithecia sere  $\frac{1}{2}$  mm. d.; asci 73-80  $\approx$  12-15 (p. sp.); sporidia 19-20  $\approx$  5-6; in caulis *Sambuci* in Moravia *K. Ebuli*

Perithecia subgregaria, parvula; asci 60-70  $\approx$  8-10 (p. sp.); sporidia 15  $\approx$  5; in ramis *Fici* in It. bor. \**K. Fici*

**§§ Asci subsessiles.**

Perithecia  $\frac{1}{8}$  mm. d.; asci 55-65  $\approx$  10-12; sporidia 12-15  $\approx$  6-7, haud raro muriformia; in ligno *Juniperi* in Am. bor. *K. inusta*

**C Sporidia monosticha.**

Perithecia sparsa primitus pulvere rubro conspersa; asci cylindracei; sporidia 22  $\approx$  8; in ligno in insula Socotra Afr. orient. \**K. rubro-nigra*

Perithecia sparsa vel approximata; asci 7-12  $\approx$  7, mox diffluentes; sporidia 15-20  $\approx$  5; in ramis *Abietis* in Gallia \**K. Abietis*

Perithecia sparsa; asci ....; sporidia (monosticha?) plurilocularia; in ligno *Populi*, *Fraxini*, etc. in Suecia et Italia \**K. Eutypa* (1)

**Clavis analytica specierum generis « Thyridaria »****A Sporidia triseptata.****§ Sporidia monosticha.**

Perithecia acervulata vel sparsa,  $\frac{1}{8}$ - $\frac{1}{2}$  mm. d.; asci 110-120  $\approx$  12-14; sporidia 23-28  $\approx$  8-10; in cortice ramorum *Broussonetiae*, *Albiziae*, *Rhois*, *Juglandis* et *Mori* in It. bor. *Th. incrustans*

Perithecia acervulata, sursum rubro-lateritia,  $\frac{1}{8}$  mm. d.; asci 80-100  $\approx$  7-9; sporidia 16-19  $\approx$  5-7; In ramis *Ulni*, *Aesculi*, et *Ailanthi* in Britannia Gallia ed Hungaria *Th. rubro-notata*

(1) Mibi dubia.

Perithecia valsiformiter acervulata; asci 100-110 $\approx$ 7-9; sporidia 15-18 $\approx$ 4-6; in ramis <i>Sambuci</i> in Fennia	<i>Th. Sambuci</i>
Perithecia gregaria, ostiolis rubro-notatis $1/3$ - $1/2$ mm. d.; asci 80-90 $\approx$ 5-6; sporidia 14 $\approx$ 4; in ramis <i>Aceris</i> in Gallia	* <i>Th. delognensis</i>
§§ Sporidia disticha.	
Perithecia stromate tecta, $1/4$ - $1/3$ mm. d.; singula vel acervulata; asci 50-55 $\approx$ 10-12, stipitata; sporidia 15-17 $\approx$ 4-6; in caulibus <i>Comptoniae</i> in Am. bor.	<i>Th. Comptoniae</i>
Perithecia acervulata, $1/3$ mm. d.; asci 45-55 $\approx$ 8-10; sporidia 14-16 $\approx$ 5; in ramis <i>Meliae</i> in Am. bor.	<i>Th. eutypoides</i>
Perithecia vix acervulata, vel sparsa, $1/3$ mm. d.; asci 90-110 $\approx$ 16-20; sporidia saepe continua, 20-26 $\approx$ 4-5; in cortice <i>Fraxini</i> in Am. bor.	<i>Th. Fraxini</i>
Perithecia in quoque stromate 6-20 acervulata, $1/3$ - $1/2$ mm. d.; asci 75 $\approx$ 1; sporidia 15-20 $\approx$ 6-7; in cortice <i>Tiliae</i> (?) in Am. bor.	* <i>Th. Texensis</i>
B Sporidia 5-septata.	
Perithecia rubro-pruinosa, acervulata, $1/3$ - $1/2$ imm. d.; asci 95-105 $\approx$ 9-12; sporidia 16-20 $\approx$ 5-6, subinde septulis longitudinalibus accedentibus; in ramis <i>Pruni</i> in Fennia	<i>Th. pulveracea</i>

#### Clavis analytica specierum generis « Massarina »

A Species minores (h. e. sporidia usque 27  $\mu$ . longa)

§ ramicolae.

Perithecia sparsa vel subgregaria; asci 60-65 $\approx$ 10; sporidia 12-14 $\approx$ 3-5-4; in ramis <i>Pini</i> in It. bor.	<i>M. microspora</i>
Perithecia gregaria, 300 $\mu$ . d., nucleo albo farcta; asci 60-70 $\approx$ 12-14; sporidia 20-24 $\approx$ 4-6; in ramis <i>Tiliae</i> in Germania	<i>M. micacea</i>
Perithecia sparsa vel acervata, $1/4$ mm. d.; asci 80-90 $\approx$ 12-16; sporidia 22-24 $\approx$ 5-6; in ramis <i>Carpini</i> in Germania	<i>M. microcarpa</i>
Perithecia $1/3$ - $1/2$ mm. d.; molliuscula, gregaria, epidermide nigrescente tecta; asci 85-95 $\approx$ 10-12; sporidia 18-20 $\approx$ 4-5; in ramis <i>Rosarum</i> in Germania	<i>M. polymorpha</i>
Perithecia sparsa vel subinde 1-3 acervulata, cupuliformia (ut in <i>Ditopelia</i> ) fere $1/2$ mm. d.; asci 65-70 $\approx$ 15-18; sporidia 20-22 $\approx$ 5-5; in <i>Alno</i> in Britannia	<i>M. alnicola</i>
Perithecia laxe gregaria, $1/3$ mm. d.; apice setulosa; asci 90 $\approx$ 15; sporidia 20 $\approx$ 8; in ramis <i>Cytisi</i> in It. bor.	<i>M. penicillata</i>

§§ foliicolae.

Perithecia gregaria $1/4$ mm. d., epidermide longitudinaliter fissâ tecta; asci 95-105 $\approx$ 17-24; sporidia 25-27 $\approx$ 8-10; in foliis <i>Xerophylli</i> in Am. bor.	<i>M. hysterioides</i>
B Species majores (h. e. sporidia 28 et amplius $\mu$ . longa).	
Perithecia gregaria, $1/4$ mm. d.; asci 95-105 $\approx$ 18-23; sporidia 32-34 $\approx$ 10-12; in ramis <i>Corni</i> in Germania	<i>M. Corni</i>

Perithecia saepe gregaria, $\frac{1}{4}$ mm. d.; asci 130-140 $\approx$ 14-17; sporidia 28-32 $\approx$ 8-10; in ramis <i>Fagi</i> in Gallia, Germania, Italia et Britannia	<i>M. eburnea</i>
Perithecia sparsa, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 120-130 $\approx$ 18-20; sporidia 30-32 $\approx$ 12-15; in ramulis <i>Coryli</i> in It. bor.	<i>M. eburnoides</i>
Perithecia gregaria, $\frac{3}{4}$ mm. d., coriacea, crassa, asci 100-110 $\approx$ 18-20 (p. sporif.); sporidia 28-32 $\approx$ 7-8; in cortice <i>Fagi</i> et <i>Aceris</i> in Gallia	<i>M. lunulata</i>
Perithecia gregaria vel dense sparsa, $\frac{1}{3}$ - $\frac{1}{2}$ mm. d.; coriacea, asci 85-95 $\approx$ 14-18; sporidia 26-30 $\approx$ 7-8; in ramis <i>Myricae</i> in Am. bor.	<i>M. Myricae</i>

### Clavis analytica specierum generis « Metasphaeria »

**A** Sporidia biseptata vel verisimiliter demum triseptata.

§ species minores, (h. e. sporidiis usque 28  $\mu$ . longis.)

Perithecia in greges minutos sociata, 300-400 $\mu$ . d.; asci 60-70 $\approx$ 8; sporidia 12-14 $\approx$ 3-4, tri-quadriguttata; (An immatura?) in <i>Trollio</i> ad Plenji maris glacialis	<i>M. Trollii</i>
Perithecia sparsa, minima, $\frac{1}{10}$ mm. d.; asci 35-38 $\approx$ 8; sporidia 12-14 $\approx$ 3 $\frac{1}{2}$ -4 uniseptata (an demum triseptata?) in foliis <i>Leersiae</i> , in It. bor.	<i>M. Leersiae</i>
Perithecia subgregaria, $\frac{1}{9}$ - $\frac{1}{7}$ mm. d.; asci 40-45 $\approx$ 8; sporidia 12-14 $\approx$ 3, uni-(an demum tri-) septata; in involucris <i>Castanearium</i> in It. bor.	<i>M. involucralis</i>
Perithecia subsparsa, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 60 $\approx$ 12; sporidia 14-18 $\approx$ 5-6, continua vel biseptata; in foliis <i>Cocos</i> , Demerara	<i>M. cocogena</i>
Perithecia subgregaria, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 60-70 $\approx$ 10-12; sporidia 17-19 $\approx$ 5-6, bi-(an demum tri-) septata; in <i>Hyperico</i> in Helvetia	<i>M. ocellata</i>
Perithecia sparsa $\frac{1}{7}$ - $\frac{1}{5}$ ; asci 80-90 $\approx$ 15-18; sporidia 20-24 $\approx$ 6-7; uni-(an demum tri-) septata; in foliis <i>Graminum</i> in It. bor.	<i>M. anaritmoides</i>
Perithecia minuta sparsa; asci lineari-subclavati; sporidia 6 $\approx$ 2, biseptata; in caulibus <i>Boehmeriae</i> « Calcutta »	<i>M. Boehmeriae</i>
Perithecia punctiformia; asci clavati; sporidia breviter fusoidea (parva?); in <i>Lycopodio</i> in Am. bor.	* <i>M. Lycopodii</i>
Perithecia gregaria, asci cylindracei, 60-70 $\approx$ 9-10; sporidia 4-guttata, 16-17 $\approx$ 3-4; in thallo <i>Physmatis</i> in Germania	* <i>M. leptogiophila</i>

§§ Species majores, h. e. sporidiis 30 et amplius  $\mu$ . longis.

Perithecia sparsa; asci 100-110  $\approx$  12-15; sporidia eximie biconoidea (an demum 3-5-septata) muco obvoluta, 25-30  $\approx$  5, (sine muco); in caulibus *Sambuci* in It. bor.

*M. ambigua*

**B** Sporidia distincte triseptata.

§ In Acotyledoneis parasitaceis.

Perithecia in soros collecta, $\frac{1}{6}$ - $\frac{1}{5}$ mm. d.; asci 50-60 $\approx$ 12-14; sporidia 27-30 $\approx$ 4-5; in frondibus vivis <i>Marattiae</i> in terra Cafrorum	<i>M. Caffra</i>
Perithecia solicola, sparsa, epi-et hypophylla; asci . . . ; sporidia 10-11 $\approx$ 2 $\frac{1}{2}$ ; in <i>Lycopodio</i> <i>Plegmaria</i> in Ceylon	* <i>M. Plegmariae</i>

- Perithecia punctiformia, dispersa; asci subcylindracei; sporidia 24-30  $\approx$  5-6; in thallo *Stereocaulonis* in Tyrolia \**M. Stereocaulorum*
- Perithecia 150  $\mu$ . d., solitaria; asci sexspori, piriformes; sporidia 19-21  $\approx$  7,5; in squamis thalli *Psorae* in It. bor. \**M. Psorae*
- §§ In Monocotyledoneis parasiticae.
- † Species minores, h. e. sporidiis usque 28  $\mu$ . longis.
- Perithecia gregaria  $1\frac{1}{8}$ - $1\frac{1}{6}$  mm. d.; asci 50-60  $\approx$  12-14; sporidia 15-18  $\approx$  3-4; in foliis *Musae* in Afr. occ. *M. Cumanella*
- Perithecia gregaria,  $1\frac{1}{6}$ - $1\frac{1}{4}$  mm. d.; asci 65-70  $\approx$  10-12; sporidia 12-15  $\approx$  5; in foliis *Typhae* in Germania *M. lacustris*
- Perithecia sparsa,  $1\frac{1}{6}$  mm. d.; asci 60-70  $\approx$  12-14; sporidia 20-22  $\approx$  6-8; in culmis *Pblaei* in Fennia (Adest forma *Poae* in *Poa* in Germania) *M. culmifida*
- Perithecia 2-3-congesta, 120-150  $\mu$ . d.; asci 40-45  $\approx$  8; sporidia 12-14  $\approx$  3; in foliis *Panicorum* in Am. bor. *M. Panicorum*
- Perithecia epiphylla, sparsa vel gregaria, 160-180  $\mu$ . d.; asci 55-65  $\approx$  9-11; sporidia 18-20  $\approx$  4; in *Lužula* in Tyrolia *M. Luzulæ*
- Perithecia laxe seriata,  $1\frac{1}{6}$ - $1\frac{1}{4}$  mm. d.; asci 45-55  $\approx$  8-9; sporidia 16-18  $\approx$  4; in foliis *Caricum* in It. bor. et Britannia (Adest var. *Luzulina* in *Lužula* in Fennia) *M. Cumana*
- Perithecia sparsa, 170-200  $\mu$ . d.; asci 75-85  $\approx$  12-14; sporidia 22-24  $\approx$  7; in foliis *Brachypodii* in Italia et Germania *M. Brachypodii*
- Perithecia epiphylla,  $1\frac{1}{3}$  mm. d.; asci 60-70  $\approx$  12; sporidia 20-23  $\approx$  4-5; in foliis *Bambusae*, Cayenna *M. fusariispora*
- Perithecia sparsa,  $1\frac{1}{6}$  mm. d.; asci 90  $\approx$  15; sporidia 25-28  $\approx$  5-6,5; in foliis *Airae* et *Sorgbi* in Britannia et Italia (Adest var. *Coccodes* in *Calamagrostide* in Fennia) *M. anarithma*
- Perithecia sparsa,  $1\frac{1}{3}$  mm. d.; asci 70-80  $\approx$  14-16; sporidia 22-25  $\approx$  7; in *Sabal* in Am. bor. *M. Palmetta*
- Perithecia gregaria; asci clavulati, 56  $\approx$  7; sporidia 14  $\approx$  2-5; in calaminis *Junci* in Nederlandia \**M. Junci*
- Perithecia confertim sparsa; asci 60  $\approx$  12-13; sporidia 20-25  $\approx$  6,5; in foliis et caulis *Iridis* in Algeria \**M. iridicola*
- Perithecia minutissima, in maculis rufis vel brunneo-castaneis; sparsa; asci 50-55  $\mu$ . longi; sporidia 20  $\mu$ . longa; in foliis *Iridis* in Gallia et Belgio \**M. Iridis*
- Perithecia subsparsa, minuta; asci tereti-clavulati; sporidia 4-guttata, 15-16  $\approx$  3,5; in foliis *Avenae* in Germania \**M. Avenae*
- Perithecia membranacea, 250-300  $\mu$ . d.; asci 150  $\mu$ . longi; sporidia 27  $\approx$  6; in *Oryza* in It. bor. \**M. Cattanei*
- Perithecia hypophylla, dense seriatim gregaria; asci 36  $\approx$  12; sporidia 4-guttata, 12-14  $\approx$  4-5; in foliis *Dactylidis* in Germania \**M. reeutita*
- Perithecia parva, sparsa; asci 80-100  $\approx$  10-12; sporidia 20-25  $\approx$  4; in *Sparganio* in Gallia \**M. Sparganii*
- Perithecia gregaria, majuscula; asci 70-75  $\approx$  14-16; sporidia 22-25  $\approx$  5-6; in caulis *Tofieldiae borealis* in Groenlandia \**M. borealis*

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci lineares, 70-80  $\times$  4-5; sporidia 12-16  $\times$  3; in vaginis *Panici* in Am. bor.

\**M. stenotheca*

† Species majores, (h. e. sporidiis 30 et amplius  $\mu$ . longis.)

Perithecia sparsa, 170  $\mu$ . d.; asci 84-90  $\times$  30-58; sporidia 33-11; in foliis *Graminum* in Tyrolia

*M. neglecta*

Perithecia sparsa vel seriata  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 55-10  $\times$  18-22; sporidia 40-42  $\times$  6; in *Panicum* in Am. bor.

*M. punctulata*

Perithecia subsparsa,  $\frac{1}{5}$  mm. d.; asci 115-125  $\times$  40-55; sporidia 35-40  $\times$  14-16; in foliis *Caricum* in Groenlandia

*M. macrotheca*

Perithecia sparsa vel gregaria,  $\frac{2}{3}$ - $\frac{1}{2}$  mm. d.; asci 110-120  $\times$  28-30; sporidia 40-44  $\times$  10-12; in calamis *Scirpi* in Spetzbergia et Gallia

*M. Scirpi*

Perithecia irregulariter sparsa,  $\frac{2}{3}$ - $\frac{3}{4}$  mm. d.; asci 150-170  $\times$  20-26; sporidia 58-65  $\times$  10-12; in culmis *Spartinae* in Am. bor.

*M. marina*

Perithecia sparsa vel subgregaria, 200  $\mu$ . d.; asci 120  $\times$  25; sporidia 40-48  $\times$  10-12; in calamis *Spartinae* in Belgio

\**M. mosana*

\$\$\$ In Dicotyledoneis parasitae.

† Species minores (h. e. sporidiis usque 28  $\mu$ . longis.)

a cauli-ramicolae.

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 95-110  $\times$  8-12; sporidia 15-18  $\times$  4-6; in ramis arborum variarum in Germania, Austria, Gallia et Am. bor.

*M. corticola*

Perithecia sparsa; asci 80-90  $\times$  12-14; sporidia 16-18  $\times$  5-6; in caulis *Umbelliferarum* in Britannia, Belgio et Am. bor.

*M. Thwaitesii*

Perithecia sparsa vel subgregaria,  $\frac{1}{5}$  mm. d.; asci 75-80  $\times$  10-12; sporidia 16-18  $\times$  4-5; in fructibus *Cupressi pyramidalis* in It. bor.

*M. Cyparissi*

Perithecia gregaria,  $\frac{1}{8}$  mm. d.; asci 80-90  $\times$  8-9; sporidia 17-20  $\times$  4-5; in caulis *Ferulae* in Algeria

*M. ferulina*

Perithecia sparsa,  $\frac{1}{8}$  mm. d.; asci 42-52  $\times$  8-10; sporidia 15-18  $\times$  3 $\frac{1}{2}$ -4; in foliis *Vincae* in Germania, Gallia, Suecia et Italia

*M. Vineae*

Perithecia sparsa, 300  $\mu$ . d.; asci 80-90  $\times$  10-12; sporidia 16-18  $\times$  8; in foliis *Empetri* in Helvetia, Germania et Italia

Perithecia subcutanea gregaria, 65-85  $\mu$ . d.; asci 36-40  $\times$  7-8; sporidia 12-14  $\times$  3-5; in sarmentis *Vitis* in Gallia

*M. pampinea*

Perithecia dense gregaria, 300  $\mu$ . d., epidermide atrata tecta, asci 60-70  $\times$  6-8; sporidia 9-11  $\times$  3-4; in sarmentis *Rubi* in Belgio

*M. clypeosphaerio* les

Perithecia sparsa vel leniter gregaria, 160  $\times$  200  $\mu$ .; asci 65-75  $\times$  12-14; sporidia 18-20  $\times$  4-6; in ramulis *Plantarium* var. in Italia, Gallia et Germania (Adest var. *Aquilegiae* in *Aquilegia*, Trento et Hungaria)

*M. sepincola*

Perithecia subsparsa, maculas dealbatas incolentia,  $\frac{1}{3}$  mm. d.; asci 80-90  $\times$  10; sporidia 16-20  $\times$  7; in ramis decorticatis *Fraxini* in Britannia

*M. dealbata*

Perithecia gregaria,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 60-70  $\times$  12-15; sporidia 18-22  $\times$  6-7; in baccis putr. *Juniperi* in Tirolia

*M. saprophila*

Perithecia sparsa vel gregaria,  $\frac{1}{8}$  mm. d.; asci 70-80  $\times$  12-14; sporidia 24-28  $\times$  6-8; in caulis *Desmodii* in Am. bor.

- Perithecia gregaria, 120-150  $\mu$ . d.; asci 70-80  $\approx$  7-8; sporidia 18-20  $\approx$  3-3,5; in sarmenis *Vitis* in It. bor. *M. socia*
- Perithecia minuta, subgregaria; asci 75-80  $\approx$  10-12; sporidia 18-22  $\approx$  5-6; in ramulis *Coryli* in Gallia *M. Coryli*
- Perithecia in matrice cruentata innato-erumpentia, 300  $\mu$ . d.; asci 120-140  $\approx$  21-13; sporidia 24-28  $\approx$  5,5-6; in caulinibus in Gallia *M. rubella*
- Perithecia sparsa,  $1\frac{1}{4}$  mm. d.; asci 90-100  $\approx$  8-10; sporidia 22-24  $\approx$  5-6; in ramulis *Fontanesiae* in It. bor. *M. Fontanesiae*
- Perithecia gregaria, 150-200  $\mu$ . d. ostiolo setoso; asci 100-14; sporidia 22-25  $\approx$  5,5-6; in sarmenis *Vitis* in It. bor. *M. chaetostoma*
- Perithecia gregaria,  $1\frac{1}{4}$ - $1\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  15-18; sporidia 25-28  $\approx$  7-9; in ramulis *Lonicerae* in Helvetia *M. helvetica*
- Perithecia sparsa,  $1\frac{1}{8}$ - $1\frac{1}{6}$  mm. d.; asci 70-80  $\approx$  15; sporidia 25-26  $\approx$  6-7; in *Aconito* in It. bor. *M. rupicola*
- Perithecia gregaria; asci 108-118  $\approx$  13; sporidia 28  $\approx$  6; in *Senecione* in Germania *\*M. Senencionis*
- Perithecia sparsa; asci clavati; sporidia 28-30  $\approx$  10; in *Artemisia* in Africa austr. *\*M. metuloidea*
- Perithecia sparsa, minuta; asci clavati; sporidia 15-18  $\approx$  4; in ramulis *Clematidis* et *Senencionis* in Africa *\*M. brachiata*
- Perithecia gregaria; asci 76  $\approx$  15; sporidia 20-25  $\approx$  5; in *Helianthemo* in Germania *\*M. Helianthemi*
- Perithecia dense sparsa; asci 28  $\approx$  10; sporidia 12  $\approx$  3; in *Euphorbia* in Sicilia *\*M. Sacculus*
- Perithecia gregaria vel sparsa, media magnitudine, depressa; asci 123  $\approx$  10; sporidia 16-20  $\approx$  8; in ramis *Carpini* in Germania *\*M. depressa*
- Perithecia parva, epidermide nigrificata tecta; asci cylindracei; sporidia 15  $\approx$  7,5; in caulinibus *Humuli* in Am. bor. *\*M. humulina*
- Perithecia sparsa; asci clavati vel subcylindracei; sporidia 3-septata chlorino-hyalina; in caulinibus *Gei* in Gallia (*Mihi dubia*) *\*M. Gei*
- Perithecia minuta; asci clavati 75  $\approx$  10; sporidia 20  $\approx$  5; in ramulis *Genistae tinctoriae* in It. bor. *\*M. tinctoria*
- Perithecia membranacea, sparsa vel approximata; asci 80-90  $\approx$  12; sporidia 25  $\approx$  8-9; in caulinibus *Spartii* in Gallia *\*M. Spartii*
- Perithecia sparsa vel subgregaria; asci 70-90  $\approx$  10; sporidia 15-20  $\approx$  4-5; in ramulis *Liriodendri* in It. bor. *\*M. Liriodendri*
- Perithecia sparsa; asci 40-62  $\approx$  10-12; sporidia 20  $\approx$  8; in cortice *Pruni* in It. bor. *\*M. Peridermii*
- Perithecia  $1\frac{1}{2}$ - $1\frac{3}{4}$  mm. d., interdum 2-3-unita; asci 80-115  $\approx$  12-15; sporidia 18-22  $\approx$  7-9; in cortice *Taxodii* in Am. bor. *\*M. cavernosa*
- Perithecia gregaria, 250  $\mu$ . d.; asci 75-80  $\mu$ . longi (pars sporifera 40  $\approx$  12); sporidia 20-22  $\approx$  3,5-4,5; in trunco *Platani* in Am. bor. *\*M. rubida*
- Perithecia laxe gregaria,  $1\frac{1}{4}$  mm. d.; asci clavulati; sporidia 15-20  $\approx$  6; in ramis *Carpini* in Slavonia *\*M. subsimilis*
- Perithecia 0,2-0,3 mm. d., gregaria vel sparsa ostiolo lato, depre-

- sione orbiculari oriente; asci clavati, 120-140  $\times$  15-18; sporidia 21-28  $\times$  10-12; in cortice in Venezuela  
*b* foliicolae.
- Perithecia dense sparsa, 130  $\mu$ . d.; asci 70-80  $\times$  12-14; sporidia 18-20  $\times$  4-5; in *Hedera* in Gallia, Germania, Italia, Belgio et America bor. \**M. annulata*
- Perithecia sparsa, minuta; asci 35-40  $\times$  8-10; sporidia 12-15  $\times$  5; in foliis *Cassiopea* in Groenlandia *M. helicicola*
- Perithecia sparsa vel gregaria, 180-200  $\mu$ . d.; asci 52-60  $\times$  10-12; sporidia 22-25  $\times$  4-5; in *Arabide alpina* in Irlandia et Groenlandia *M. Arabidis*
- Perithecia in macula arescente, 100-120  $\mu$ .; asci 60-70  $\times$  10-12; sporidia 18-20  $\times$  5-7; in *Hedera* in Britannia, Italia, Belgio, Suecia et Hollandia *M. Hederae*
- Perithecia semiimmersa, 150  $\mu$ . d.; asci 60-70  $\times$  12-16; sporidia 20-24  $\times$  6-7,5; in *Xerophyllum* in Am. bor. *M. Xerophylli*
- Perithecia 90-100  $\mu$ . d., remote sparsa, in maculis albidois, fuligineo marginatis; asci 90-100  $\times$  10-11; sporidia 20-22  $\times$  6-7; in *Lauro nobili* in It. bor. et Lusitania *M. nobilis*
- Perithecia sparsa, 150  $\mu$ . d.; asci 138  $\times$  17-23; sporidia 20-24  $\times$  6-7; in *Carlina* in Moravia *M. Cynaracearum*
- Perithecia epiphylla, minutissima; asci tereti-fusoidei; sporidia 22-24  $\times$  4-5; in foliis *Acerum* in Gallia \**M. Acerum*
- Perithecia vix papillata; asci clavati; sporidia quandoque quadrisep-tata, 23-24  $\times$  6; in foliis *Abietum* in California Am. bor. \**M. Acuum*
- Perithecia in macula brunneâ congregata, conico-depressa; asci 45  $\times$  10; sporidia 15  $\times$  4; in foliis *Erodio palustris* in Gallia \**M. palustris*
- Perithecia globoso-convexa; asci 135  $\times$  8-9; sporidia 17  $\times$  6; in pagina infer. foliorum *Ilicis* in Gallia \**M. Lieuryana*
- Perithecia hypophylla, aggregata, 0,25 mm. d.; asci 40-50  $\times$  6-8; sporidia 9-11  $\times$  2-2,5; in foliis *Eucalypti* in Lusitania \**M. Molleriana*
- Perithecia gregaria; asci clavati; sporidia elliptico-lanceolata, 20  $\times$  8; in foliis *Hederae* in Am. bor. \**M. hederaefolia*
- †† Species majores, (h. e. sporidiis 30 et amplius  $\mu$ . longis.)*
- a* rami-caulicole.
- Perithecia gregaria,  $1\frac{1}{3}$  mm. d.; asci 95-105  $\times$  12-13; sporidia 35-37  $\times$  4; in caulibus *Euphrasiae* in Germania *M. coniformis*
- Perithecia subgregaria,  $1\frac{1}{5}$  mm. d.; asci 100-110  $\times$  12-14; sporidia 48-50  $\times$  4-6; in caulibus *Erianthi* in Fennia *M. affinis*
- Perithecia  $1\frac{1}{3}$  mm. d.; asci 90-100  $\times$  11-14; sporidia 26-30  $\times$  6-7; in *Galiis* in Gallia *M. Galiorum*
- Perithecia sparsa vel laxe gregaria,  $1\frac{1}{2}$  mm. d.; asci 90-100  $\times$  8-10; sporidia 28-33  $\times$  4-5  $\frac{1}{2}$ ; in caulibus *berbaceis* in Britannia, Gallia et Carol. *M. complanata*
- Perithecia minuta,  $1\frac{1}{8}$  mm. d.; asci 80  $\times$  8; sporidia 30  $\times$  4; in *Lathyrus* in It. bor. *M. Lathyri*
- Perithecia semiimmersa, coriaceo-carbonacea; asci 100-110  $\times$  18; sporidia 26-32  $\times$  6-7,5; in ramulis *Coryne* in It. bor. et Styria *M. Fiedlaecri*

Perithecia gregaria; asci 105  $\times$  18; sporidia 44  $\times$  8; in *Senecionibus*  
in Germania et Helvetia \**M. macrospor*

Perithecia sparsa, majuscula; asci 60-67  $\times$  12-14; sporidia 25-33  $\times$  4;  
in ramulis *Louicerae* \**M. Lonicerae*

b folicolae.

Perithecia sparsa, 300-400  $\mu$ . d.; asci 105-115  $\times$  12-14; sporidia ap-  
pendiculigera, 28-32  $\times$  7-8; in *Populo* in Fennia *M. immunda*

Perithecia subcongesta, globosa; asci clavati vel cylindracei; spor-  
idia 30-35  $\mu$ . longa; in petiolis *Piri* in Am. bor. \**M. Semen*

c Sporidia 4-septata.

§ cauli-ramicolae vel culmicolae.

a perithecia glabra.

Perithecia gregaria vel subsparsa,  $\frac{1}{4}$  mm. d.; asci 65-75  $\times$  12-14;  
sporidia 18-22  $\times$  6-7; in caulis *Inulinae* in Algeria *M. Inulinae*

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 60-70  $\times$  20-24; sporidia 32-34  $\times$  8;  
in ramis *Abietis* in Am. bor. *M. squamata*

Perithecia dense vel densissime gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 75-85  
 $\times$  15-18; sporidia 22-25  $\times$  6-7; in ramis et foliis *Araucariae*, *Sa-*  
*rothanini*, *Rhoiodendri*, *Evonymi* in California *M. californica*

Perithecia innata, 150  $\mu$ . d.; asci 60-70  $\times$  12; sporidia 20-22  $\times$  5; in  
foliis *Citri* etc. in Algeria. (Adsumt var. *Marcucciana* in culmis  
*Ampelodesmi* in Sardinia; var. *calamina* in *Arundine* in Algeria;  
var. *epipteridea* in stipitibus *Pteridis* in Am. bor. var. *Debeauxii*  
in *Phoenice* in Am. bor.; et var. *anisometra* in caulis ramuli-  
sque variis in Am. bor. Italia et Algeria *M. papulosa*

Perithecia sparsa minuta, 150-200  $\mu$ . d.; asci 65-75  $\times$  10-12; spor-  
idia 25-28  $\times$  4; in caule *Convallariae* in Belgio, Germania, Helvetia  
et Italia *M. Bellyneckii*

Perithecia ut in *M. papulosa*; asci longiores; sporidia saepe 5-sep-  
tata; in rachide *Phoenicis* in It. bor. \**M. rachidis*

Perithecia sparsa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 100-110  $\times$  15-18; sporidia 25-  
30  $\times$  7-8; in *Salsola Kali* in Gallia *M. Kali*

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 75-85  $\times$  12-14; sporidia 28-32  $\times$   
8-10; in aculeis *Rosae caninae* in It. bor. *M. Caninae*

Perithecia simplicia, sphaericо-depressa demum late perforata; asci  
100  $\times$  14-20; sporidia 30  $\times$  10; in culmis *Arundinaceis* in Gallia \**M. Craterium*

Perithecia minuta; asci 70-110  $\times$  13-15; sporidia 3-4-septata, 30  $\times$  6-5;  
in caulis *Primulae* in Shina \**M. primulicola*

Perithecia punctiformia; asci breves; sporidia 3-4-septata; in foliis  
*Hyperici* in Nova Zelandia (*Mihi dubia*) \**M. cryptospila*

Perithecia sparsa, circ. 200  $\mu$ . d.; asci 65-75  $\times$  11-13; sporidia 22-24  
 $\times$  4-5; in *Allio* in Serbia (aff. *Met Bellyneckii* sed minor) \**M. minor*

b Perithecia apice fasciculo setarum instructa.

Perithecia sparsa  $\frac{1}{4}$  mm. d.; asci 100-110  $\times$  14-16; sporidia 26-29  $\times$  7-9;  
in caulis ramisque *Chondrillae* in Italia bor., Germania, et Am.  
bor. (Adest var. *xerophila* in *Silene* et *Lycopside* in Gallia et Hollandia) *M. trichostoma*

## §§ foliicolae.

- Perithecia innata, 150 µ. d.; asci 60-70 ± 12; sporidia 20-22 ± 5; in *Citro*, *Hedera* et *Smilaci* in Algeria (Adsunt var. *Marcucciana* in culmis *Ampelodesmi* in Sardinia; var. *calamina* in *Arundine mauitan*. in Algeria, var. *epipteridea* in stipidibus *Pteridis* in Am. bor. var. *Deheauxii* in *Phoenice* in Liguria et var. *anisometra* in caulinibus ramulisque plantarum variar. in America bor. in Italia et Algeria Perithecia dense val densissime gregaria,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 75-85 ± 15-18; sporidia 22-25 ± 6-7; in foliis et ramulis *Araucariae*, *Sarothamni*, *Rhododendri*, *Erythronii* in California *M. papulosa*
- Perithecia secus nervos primarios sparsa, 250-260 µ. d.; asci 60-70 ± 23, e basi ventricosa sursum attenuati; sporidia inaequaliter didyma, parte superiori 12-14 ± 6-7, inferiori 8-9 ± 4,5-5; in *Smilace* in Coimbra (Mihi videter *M. papulosa*) *M. californica*
- \**M. nervisequa*

## D Sporidia transverse 5-6-septata.

## § In Acotyledoneis parasitiae.

- Perithecia minutissima; asci oblongi; sporidia 22-26 ± 4; in squamis *Pannariae Lepidiolae* in It. bor. *\*M. Lepidiolae*

## §§ In Monocotyledoneis parasitiae.

- Perithecia globosa, 150 µ. d.; asci 99-150 µ. longi; sporidia fusiformi-nodosa, 30 ± 6; in culmis foliisque *Oryzae* in It. bor. *\*M. Oryzae*
- Perithecia 2-3-gregaria, vel solitaria, nudo oculo *Pucciniam aemulantia*; asci 60-65 ± 7-8; sporidia 18-20 ± 3-4; in foliis *Caricis* in It. bor. *\*M. puccinioides*
- Perithecia sparsa; asci clavati; sporidia (sec. icon.) 20 µ. longa; in cortice *Pandani* in insula Radack *\*M. Fur.*
- Perithecia sparsa, dein cum epidermide tota aufugentia; asci clavati; sporidia monosticha, (sec. icon.) 28-30 µ. longa; in cortice *Pandani* in insula Radack *\*M. profuga*
- Perithecia minutissima, conferte gregaria; asci 66 ± 22; sporidia 20-21 ± 3-4; in folio putri *Carludovicae* in Venezuela *\*M. palmicola*
- Perithecia crebre sparsa vel subgregaria; asci elongato-fusiformes, vel obclavati; sporidia 15-17,6 ± 5, apicibus acutis, 2-1,5 µ. crassis; in caulinibus *Geitonoplesii* in It. med. *\*M. plutyspora*
- Perithecia minuta, epiphylla, sparsa; asci clavati; sporidia 30-35 ± 6; in foliis *Acori* in Britannia *\*M. acorella*
- Perithecia subsparsa, compresso-globosa; asci 70-75 ± 16-22; sporidia 18-24 ± 5-6; in seminibus vix maturis *Oryzae* in Friuli It. bor. *\*M. albescens*

## \$\$\$ In Dicotyledoneis parasitiae.

## † Perithecia glabra.

- Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 80-90 ± 8-10; sporidia 26-30 ± 4-5; in ramis *Piri* in Am. bor. *M. subcutanea*
- Perithecia gregaria, 150-180; asci 80-90 ± 14-16; sporidia 20-24 ± 5-6; in *Foeniculo* in Am. bor. *M. brunnea*
- Perithecia sparsa, 300 µ. d.; asci 120-130 ± 70-75; sporidia 65-70 ± 19-22; sexseptata; in caule *Genistae* in Carniola *M. gigantaspora*

- Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci 150-160  $\approx$  18-20; sporidia 32-35  $\approx$  8-10; in caule exsiccato in It. bor. *M. torulispora*
- Perithecia sparsa, depresso-globosa; asci 90-120  $\approx$  15-18; sporidia 22-26  $\approx$  6-8; in caulibus *Chondrillae* in Germania *\*M. eburnea*
- Perithecia minuta; asci ....; sporidia 3-5-septata, 23-25  $\mu$ . longa; in ramulis *Staphyleae* in Am. bor. *\*M. staphylina*
- Perithecia gregaria, 0,2-0,3 mm. d.; asci cylindracei; sporidia 6-guttata; in ramis decorticatis *Vitis* in Slavonia *\*M. slavonica*
- Perithecia minuta, vix emersa; asci 112  $\approx$  15; sporidia 25-30  $\approx$  5-6; in ramulis *Forsythiae* in It. bor. *\*M. Forsythiae*
- Perithecia foliicola, in maculis suborbicularibus, rufido-brunneis, 4-10 mm. d., innato-erumpentia, 75  $\mu$ . d.; asci 50-60  $\approx$  8-10; sporidia 20-22  $\approx$  3; in foliis *Machurae* in It. bor. *\*M. Machurae*

**†† Perithecia vertice fasciculo setarum instructa.**

- Perithecia sparsa,  $\frac{1}{3}$  mm. d.; asci 65-75  $\approx$  12-14; sporidia 20-23  $\approx$  8-9; in caulibus herbarum in Am. bor. *M. stictostoma*
- Perithecia gregaria; asci 120-140  $\approx$  18-20; sporidia 25-37  $\approx$  10; in sarmensis *Vitis* in It. bor. *M. Cerletti*
- Perithecia  $\frac{1}{5}$  mm. d.; asci 90-100  $\approx$  18-20; sporidia 26-31  $\approx$  7-8; in caulibus *Origani* in Belgio *\*M. Origani*
- Perithecia  $\frac{1}{5}$  mm. d.; asci teretes; sporidia 36-48  $\approx$  3, dense 18-20-guttata; in cortice *Acerum* in Slavonia. (*Mih. dubia*) *\*M. Robergia*

**E Sporidia 7-pluriseptata.**

**§ In Monocotyledoneis parasiticae.**

- Perithecia sparsa,  $\frac{1}{7}$ - $\frac{1}{5}$  mm. d.; asci 60-70  $\approx$  20-24; sporidia ovoidae, 20-24  $\approx$  8-9; in *Juncus* in Gallia *M. crassiuscula*
- Perithecia sparsa, fere astoma, 150-180  $\mu$ . d.; asci 55-65  $\approx$  10-12; sporidia 25-28  $\approx$  5-6; in foliis *Bromeliae serrae* (vulgo *Caraguatá*) in Am. aust. *M. Caraguatá*
- Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 120-130  $\approx$  18-22; sporidia 28-32  $\approx$  8; in *Scirpo* in Tirolia *M. scirpina*
- Perithecia sparsa vel hinc inde gregaria,  $\frac{1}{4}$  mm. d.; asci 100-120  $\approx$  14-18; sporidia 32-38  $\approx$  6-7; in tela e *Phormio* contexta in Gallia *M. Roumegueri*
- Perithecia subgregaria ostiolo subinde lophiostomaceo, vix  $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$  12-14; sporidia 28-32  $\approx$  6-7; in *Zea*, *Panico* et *Sabal* in It. bor. et Am. sept. *M. hyalospora*
- Perithecia minuta, globulosa; asci ....; sporidia 35-45  $\approx$  6,6-7; in foliis *Phormii* in Nova Zelandia *\*M. Lindsayana*
- Perithecia sparsa, 180-200  $\mu$ . d.; asci 100-110  $\approx$  8-10; sporidia 19-22  $\approx$  4; ad vaginas *Poae* in maritimis in Am. austr. *\*M. insularis*

**§§ In Dicotyledoneis parasiticæ.**

- Perithecia crebre parsa; sci eximie clavati; 80-100  $\approx$  12; sporidia 25-30  $\approx$  5; in sarmensis *Vitis* in It. bor. *\*M. sarmenticola*
- Perithecia sparsa e matrice latiuscula denigrata erumpentia, 250-300  $\mu$ . d.; asci 75-100  $\approx$  17-20; sporidia 10-13-septata, 38-50  $\approx$  7-8; in culmis *Moliniae* *\*M. nigro-tingens*

**Clavis analytica specierum generis « Sphaerulina »**

**A** Species minore (h. e. sporidia usque 30  $\mu$ . longa.)

§ Sporidia ovoidea vel ellipsoidea.

† Asci saccati.

α Sporidia triseptata.

Perithecia in soros collecta, superficialia, 60-90  $\mu$ . d.; asci 50-55  $\approx$  20-25; sporidia bi-septata 18-20  $\approx$  10-12; in foliis *Primulae* in Helvetia

*S. primulicola*

Perithecia minutissima; asci 45-75  $\approx$  22-24; sporidia 22-25  $\approx$  6-8; in baccis *Juniperi* in Tyrolia

*S. baccharum*

Perithecia sparsa, 0,2 mm. d.; asci 60-70  $\approx$  30-38; sporidia 25-30  $\approx$  10-15; in caulibus *Trifolii* in Tyrolia ad glacies aeternas

*S. subglacialis*

β Sporidia saepius vel demum quadri-quinqueseptata.

Perithecia gregaria; asci 38-45  $\approx$  22-24; sporidia 16-20  $\approx$  6-7; in caulis *Potentillae* in Islandia

*S. Potentillae*

Perithecia gregaria, 90-100  $\mu$ . d.; asci roseolati 40-50  $\approx$  12-15; sporidia 16-20  $\approx$  5-6, subinde murali divisa; in sarmentis *Rubi*, et ramis *Rosae* et *Corni* in Italia, Germania, Britannia et Gallia,

*S. intermixta*

Perithecia sparsa vel subgregaria; asci 35-63  $\approx$  12-15 (subinde clavati) sporidia 12-15  $\approx$  4-5; in ramis *Coriariae* in It. bor. (Videtur aff. *S. intermixtae*)

\**S. Coriariae*

Perithecia subapproximata; asci 37-50  $\approx$  15-18; sporidia 3-5-septata, 12,5  $\approx$  2,5; in ramis *Pini* in Gallia. (Videtur aff. *S. intermixtae*) \**S. Pini*

†† Asci cylindracei vel clavati.

Perithecia gregaria,  $1\frac{1}{6}$ - $1\frac{1}{4}$  mm. d.; asci 45-55  $\approx$  10-12; sporidia 14-16  $\approx$  6-8; in ramulis *Ceanothi* in California

*S. Ceanothi*

Perithecia minutissima  $1\frac{1}{6}$ - $1\frac{1}{8}$  mm. d., gregaria, in massam atram consociata; asci 40-50  $\approx$  10-14 (subinde piriformes); sporidia 16-18  $\approx$  5-6; in gluminis *Iunci* in Tirolia

*S. inquinans*

Perithecia gregaria,  $1\frac{1}{8}$ - $1\frac{1}{6}$  mm. d.; asci 45-55  $\approx$  10-12; sporidia 15-17  $\approx$  5-6; in pag. super. folior. *Taxi* in Am. bor.

*S. taxicola*

Perithecia subglobosa, epiphylla; asci clavato-fusoidei; sporidia oblongo-cymbiformia, triseptata; in foliis *Liinear* in Britannia

\**S. Leightoni*

Perithecia sparsa vel laxe gregaria; asci 62-70  $\approx$  10-12,5; sporidia 17,5  $\approx$  5; in ramulis *Camelliae* in Am. bor.

\**S. Camelliae*

Perithecia minuta, gregaria; asci 75-120  $\approx$  12; sporidia 5-7-septata 22-30  $\approx$  7,5-8,5; in *Sambuco* in Am. bor.

\**S. sambucina*

Perithecia plerumque gregaria, minuta; asci octospori; sporidia oblonga 1-3-septata; in *Cetraria* in Britannia et Fennia

\**S. cetraricola*

§§ Sporidia fusoidea vel cylindracea, 5-septata.

Perithecia sparsa, 120  $\mu$ . d.; asci 35-45  $\approx$  10-12; sporidia 16-20  $\approx$  3-4; in foliis *Scabiosae* in Gallia

*S. Boudieriana*

Perithecia sparsa, 110  $\mu$ . d.; asci 44-55  $\approx$  12-14; sporidia 22-26  $\approx$  3-4; in caulibus *Succisae* in Gallia

*S. umbilicata*

Perithecia aggregata; minuta, 90-100 $\mu$ . d.; asci 60-80 $\times$ 8-10; sporidia 28-30 $\times$ 3-4; in foliis <i>Quercus</i> et <i>Fagi</i> in fere tota Europa et Amer. (Adsunt f. <i>serograpta</i> quoque in <i>Quercu</i> in Algeria et Gallia austr., et f. <i>Fraxinea</i> in foliis <i>Fraxini</i> in It. bor.)	<i>S. myriadea</i>
Perithecia gregaria; asci 70 $\times$ 8-9; sporidia 28-30 $\mu$ . longa; in caulis <i>Arabiidis</i> in Islandia	* <i>S. islandica</i>
Perithecia 120-150 $\mu$ . d., in maculis albo-griseis sparsa; asci 40-50 $\times$ 6-7; sporidia 13-14 $\times$ 5; in <i>Gilia</i> in Patagonia	* <i>S. Giliae</i>
Perithecia approximata, perexigua; asci cito disfluentes; sporidia oblongo-fusoidea 12-15 $\times$ 3-5; in ramis <i>Staphyleae</i> in Gallia	* <i>S. Staphyleae</i>
Perithecia sparsa; asci 45 $\times$ 9-12; sporidia 15 $\times$ 2-3; in foliis <i>Caricis</i> in Japonia	* <i>S. Caricis</i>
Perithecia sparsa; asci subsessiles; sporidia 20-24 $\times$ 4; in frondibus <i>Trichomanis</i> in Australasia	* <i>S. assurgens</i>
Perithecia sparsa, minima; asci clavati; sporidia 12 $\times$ 2,5; in foliis <i>Todeae</i> in Nova Zelanda	* <i>S. Todeae</i>
<b>B</b> Species majores (h. e. sporidiis 40 et ultra $\mu$ . longa).	
Perithecia sparsa, 300 $\mu$ . d.; asci 160-190 $\times$ 80-90; sporidia 56-72 $\times$ 22-30; in foliis <i>Campanularum</i> in Carniola. (Adest var. <i>callista</i> in caulis <i>Alsines</i> in Tyrolia)	<i>S. pachyasca</i>
Perithecia sparsa, 200 $\mu$ . d.; asci 130-50; sporidia 60 $\times$ 15; in <i>Ranunculo</i> in Nowaja Semlja	<i>S. Annae</i>

#### Clavis analytica specierum generis « Hypospila »

**A** Sporidia distincte bi-triseptata.

§ Perithecia collo longiusculo, obliqua praedita.

Perithecia subsparsa, epidermide utrinque bullatim inflata tecta; asci 100-115  $\times$  10-14; sporidia 48-55  $\times$  4-6; in foliis *Salicis* in Groenlandia

*H. groenlandica*

Perithecia sparsa, epidermide utrinque bullatim inflata tecta; asci 65-80  $\times$  10-12; sporidia 20-22  $\times$  4-5; in foliis *Quercus* in fere tota Europa et Am. bor.

*H. Pustula*

§§ Perithecia collo brevi vel obsoleto.

Perithecia dense sparsa, demum concava; asci 60-65  $\times$  10-13; sporidia 18-22  $\times$  4-5; in foliis *Carpini* in Germania

*H. Rehmii*

**B** Sporidia uniseptata (imperfecte evoluta?)

Perithecia convessa, parenchymate nigrificato immersa; asci 50-60  $\times$  10-12; sporidia 11-13  $\times$  3-4; in foliis *Quercus* in fere tota Europa

*H. bifrons*

Perithecia minuta, crusta tenui vix manifesta, tecta; asci 58-68  $\times$  7-9; sporidia 10-12  $\times$  5; in foliis *Quercus* in Germania et Britannia

*H. immunda*

**Clavis analytica specierum generis « Bombardia » (1)**

**A** Perithecia verticaliter evoluta, ovoidea, fasciculata, levia.

Asci 120-140  $\approx$  9-12 (p. sp.); sporidia tota 40-50  $\mu$ . longa, parte ovoidea et cauda continua; in lignis in fere tota Europa et America bor.

*B. fasciculata*

**B** Perithecia conoidea, setuligera, sparsa.

Asci 155-165  $\approx$  14-17, subsessiles; sporidia tota 55-70  $\approx$  5-6; parte ovoidea 3-septata, cauda 4-septata; in ligno *quercino* in It. bor. et Germania (?)

*B. ambigua*

**Clavis analytica specierum generis « Lasiosphaeria » (2)**

**A** Perithecia mycelio nigro cincta vel tecta.

† Sporidia continua.

§ Perithecia parce villosa.

Perithecia gregaria,  $\frac{1}{2}$  mm. d.; basi tantum pilis radiantibus pallidis cincta; asci 120-140  $\approx$  12-16; sporidia 32-34  $\approx$  6-8; in ramis *Sorbi* in Fennia

*L. sorbina*

Perithecia subsparsa,  $\frac{1}{8}$ - $\frac{1}{2}$  mm. d., verrucosa; asci 85-95  $\approx$  14-16; sporidia 18-22  $\approx$  5-6; in ligno *pineo* in Am. bor.

*L. solaris*

Perithecia gregaria rugosa, setis parcis cincta,  $\frac{1}{4}$  mm. d.; asci 100-110  $\approx$  15-18; sporidia 30-34  $\approx$  6; in ramulis *Andromedae*

*L. sublanosa*

Perithecia caespitosa, stromate nigro inserta,  $\frac{1}{3}$  mm. d.; asci 125-130  $\approx$  25-30 (p. spor.) sporidia 50-55  $\approx$  1-12; in corticibus « Caffenna »

*L. pseudo-bombarda*

Perithecia gregaria vel aggregata, parce breviterque setosa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 80-90  $\approx$  12-15; sporidia 28-34  $\approx$  3,5-4, in caudam abrupte attenuata; in ligno *Padi?* in Fennia

*L. breviseta*

Perithecia sparsa vel gregaria,  $\frac{1}{2}$  mm. d.; pilis brevibus laxe obsita; asci 100-110  $\approx$  10-12 (p. spor.), sporidia 32-35  $\approx$  4-5, pallidissime lutescentia; in ligno *Betulae* et *Pinorum* in Germania et Helv.

*L. caudata*

Perithecia sparsa,  $\frac{1}{8}$  mm. d., longiuscula setigera, byssو caretia; asci 125-140  $\approx$  12-15; sporidia 48-50  $\approx$  4-5; in squamis *Pini* in Gallia

*L. vialis*

Perithecia sparsa, absque subicolo, pilis patentissimis tecta; asci 136  $\approx$  17; sporidia 65  $\mu$ . longa, hyalina; in ramis *Laricis* et *Rubi* in Germania et Britannia

\**L. felina*

§§ Perithecia dense villosa, (h. e. byssо, vel mycelio atro, denso tecta.)

Perithecia gregaria, setis dematiaceis tecta, sursum calva,  $\frac{1}{2}$  mm.

(1) Huc verisimiliter adscribendae sunt: *Lasiosphaeria Janus* et *L. subambigua* quas examinare nequivi.

(2) Mihi videntur expellendae: *L. erinaea*, *L. Sphagnorum*, *L. cirrhostoma*, *L. calva*, *L. nitrosa*, *L. acinosa*, *L. chloronema*, *L. papilionacea*, *L. setosa*.

- d.; asci 105-115  $\approx$  12-15; sporidia 32-36  $\approx$  5-6; in ligno *Carpini* et *Pinorum* in fere tota Europa *L. strigosa*
- Perithecia subsparsa,  $1\frac{1}{3}$ - $1\frac{1}{2}$  mm. d.; asci 110-170  $\approx$  16-18; sporidia 55-65  $\approx$  4-5; in lignis mollissimis *Fagi*, *Coryli* etc. in Suecia, Germania, Italia, Gallia et Belgio *L. erinita*
- Perithecia gregaria, circiter 2 mm. d., ostiolo crasse quadrigibbosus; asci 170-200  $\approx$  18-20 (p. spor. 120-150  $\mu$ . longa) sporidia 34-38  $\approx$  8-11; in ramis *Tsugae* *Pattoniaeae* in Am. bor. *L. stuprea*
- Perithecia sparsa vel conferta, tomento-villosa; asci elongati; sporidia linearia viridulo-flava (continua?) 40-50  $\mu$ . longa; in ligno et foliis dejectis in Am. bor. *\*L. intricata*
- Perithecia confluentia, undique pilis tecta, tomento laxo cincta; asci . . . . ; sporidia flexuosa, nucleata hyalina, 30-32  $\mu$ . longa; in linguis *cariosis* in Am. bor. *\*L. emergens*
- †† Sporidia :-pluriseptata.
- a Sporidia cylindracea.
- § Perithecia villo fere carentia, vel parce vestita.
- Perithecia stipata, basi parum villosa,  $1\frac{1}{3}$  mm. d., astoma, rugosula; asci 140-160  $\approx$  8-10; sporidia 18-22  $\approx$  4; in truncis liguisque in fere tota Europa et Am. bor. *L. spermoides*
- Perithecia gregaria, vel subsparsa, ligno semiimmersa,  $1\frac{1}{2}$  mm. d.; asci 165-175  $\approx$  16-18; sporidia 55-60  $\approx$  5-6, demum pallide virescenti flaveola; in ligno mucido *Betulae* in Fennia *L. immersa*
- Perithecia gregaria, atro-villosa, asci clavati; sporidia cylindracea, superne inflata, dein uniseptata, 50  $\approx$  10, loculo infero denique evanido et tum ellipsoidea, 25  $\approx$  10; in frustulis ligneis in Gallia (Vix huius generis; aptius *Bombardia*) *\*L. subambigua*
- Perithecia gregaria vel sparsa  $1\frac{1}{2}$  mm. d., pilis deficientia; asci 22  $\approx$  12; sporidia cylindracea seu subfusiformia, 5-7-septata, 80  $\approx$  6, dilutissime fusca; in truncis *Pini* in Helvetia *\*L. Fuckelii*
- Perithecia setis exiguis paucis, conspersa vel subglabra,  $1\frac{1}{2}$  mm. d.; asci 150  $\approx$  15; sporidia 50-55  $\approx$  5, triseptata apice, paullulo incarnata, fuscescentia; in ligno putri in Belgio *\*L. rhynchospora*
- §§ Perithecia villo copioso vel setis tecta.
- a Sporidia semper hyalina vel subhyalina.
- Perithecia subsparsa,  $1\frac{1}{5}$  mm. d.; asci 150-160  $\approx$  19-20; sporidia 65-70  $\approx$  5-6; conidia helicoidea 30-33  $\mu$ . d.; in terra, in scobe et frustulis ligneis in Britannia *L. helicoma*
- Perithecia sparsa, superne setulis in annulum membranaceum, flabelliforme, deflexum coalitis ornata, 0,1 mm. d.; asci 150  $\approx$  15-17; sporidia 60-105  $\approx$  5-6, chlorino-hyalina, 13-17-septata; in cortice vetusto in Minas Geraes, Sítio *\*L. annulata*
- b Sporidia primo hyalina dein fuscescentia.
- Perithecia dense gregaria,  $1\frac{1}{2}$  mm. d.; asci 160-170  $\approx$  16-18; sporidia 65-75  $\approx$  6-8, diu hyalina dein fusco-umbrina; in truncis putridis in fere tota Europa et Am. bor. *L. hispida*

Perithecia dense acervata, byssso densâ tecta;  $1\frac{1}{2}$  mm. d.; asci 160-175  $\approx$  14-17; sporidia 55-60  $\approx$  4-6; in ligno putri in fere tota Europa (Cfr. etiam var. *hirsuta*)

*L. Rhacodium*

Perithecia globoso-ovoidea dense piligera,  $\frac{1}{4}$  mm. d.; asci . . . . . jam resorpti; sporidia 65-70  $\approx$  5-6, hyalino-fuscidula (senescentia); in *Hypoxylo parasitica* « Cuba »

*L. actinodes*

Perithecia sparsa, dense hirsuta; asci 155  $\approx$  18; sporidia 55-70  $\approx$  4-5 diu hyalina continua, dein 1-septata, dilutissime fusca; in *Fraxino*, *Ulice* et *Pteride* in Belgio

\**L. elegans*

Perithecia sparsa,  $\frac{3}{4}$  mm. d.; asci 150  $\approx$  12; sporidia 50-60  $\approx$  4-5; in squamis *Abietis* « Malmedy prope Rhenan » Aptius ut var.

*L. Rbacodium* habenda et var. *hirsutae* propinquia

\**L. rufiseda*

Perithecia sparsa libera  $\frac{1}{2}$ - $\frac{3}{4}$  mm. d., pilis rigidis undique hirsuta; asci 140  $\approx$  14; sporidia 42-48  $\approx$  4-5, triseptata base sensim attenuata (ut in *L. caudata*) fuscidula; in ramulis decorticat. in Belgio. (Adest var. *sarmentorum* in *Vitalba* quoque in Belgio) \**L. subcaudata*

b Sporidia fusoidea.

§ Perithecia villo parco vestita.

Perithecia sparsa,  $\frac{1}{2}$  mm. d., basi pilis ramosis parcis cincta; asci 80-90  $\approx$  12-14 (p. spor.); sporidia 30-32  $\approx$  5-6, lutea; in chorda putri prope « Dublin »

*L. Keithii*

Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 120-130  $\approx$  12-14; sporidia 30-40  $\approx$  6-7, pallidissime fuscidula, loculis extimis hyalinis; in ligno *dejecto* in Am. bor.

*L. caesariata*

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 150-160  $\approx$  16-20; sporidia 48-52  $\approx$  6-8 rufo-fuliginea, loculis extimis hyalinis; in truncis in Ceylon

*L. hemipsila*

Perithecia solitaria, minuta; asci clavati 90-100  $\approx$  10; sporidia 6-7 locularia, 30  $\approx$  4, hyalina, elongata, utrinque acuminata; in trunco *Quercus* « Ausburg »

\**L. Britzelmayri*

Perithecia gregaria, minuta, parce piligera; asci 85  $\mu$ . longi; sporidia 3-5-septata, 15  $\mu$ . longa, hyalina; in lignis putrescentibus in Britannia

\**L. paucipilis*

Perithecia conferta vel sparsa, semiimmersa, subiculo byssino basi cincta,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 75  $\approx$  12-15; sporidia longe fusiformia, 3-5-septata, 45-60  $\approx$  4, dilutissime flava; in basi foliorum *Stipae* in Gallia

\**L. Stipae*

Perithecia superficialia, demum late perforata, 240  $\mu$ . d., mycelio repente cincta; asci 135  $\approx$  15; sporidia demum 3-septata, fusco-olivacea, 35-50  $\approx$  10-15, oblongo-ovata; in foliis *Sphagni* in Gallia \**L. Sphagni*

§§ Perithecia villo denso vestita.

Perithecia sparsa,  $\frac{1}{2}$  mm. d., pube dementiaceâ fuligineâ tecta; asci . . . . . non visi; sporidia 38-40  $\approx$  6-7; in *Muscis* in It. bor.

*L. muscicola*

Perithecia sparsa  $\frac{1}{4}$  mm. d.; setulis undique tecta; asci 80-90  $\approx$  7-8; sporidia 18-22  $\approx$  3-4; in ramulis *Catalpae* in It. bor.

*L. Caput-Medusae*

Perithecia byssso densâ, atrâ insidentia dein cupulata,  $\frac{1}{3}$  mm. d.; asci 135-145  $\approx$  20-25; sporidia 50-56  $\approx$  7-9; in truncis in Am. bor.

*L. Pezizula*

*B* Perithecia villo sulphureo, viridulo vel griseo tecta.

† Sporidia continua.

§ Sporidia ovoidea.

Perithecia pruina griseâ (*stannea*) tecta, dense conferta,  $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$  7-8; sporidia 14-16  $\approx$  5-6; in lignis *Quercus* et *Fagi* in Suecia

*L. stannea*

§§ Sporidia cylindracea, saepe utrinque in appendiculam producta.

Perithecia subsparsa vel gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 150-170  $\approx$  12-16; sporidia 38-44  $\approx$  4-5. In lignis putridis in fere tota Europa Am. bor. et Australia

*L. ovina*

Perithecia sparsa,  $\frac{1}{2}$  mm. d.; asci 180-200  $\approx$  12-15; sporidia 52-56  $\approx$  4-5; in culnis *Phalaridis arundinaceae* in Gallia

*L. Libertiana* (1)

Perithecia gregaria,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. d.; asci 170-180  $\approx$  15-18; sporidia 56-60  $\approx$  4-6; in trunco decorticato *Robiniae* in It. bor.

*L. sulphurella*

Perithecia 200-250  $\mu$ . d., contextu necriaceo, lanugine candida mox diffluente tecta; asci 140-150  $\approx$  8; sporidia 40-45  $\approx$  4, triguttata, hyalina; in fragmentis ligneis in It. bor. (Monte-Cavallo)

*L. Montis-Cuballi*

†† Sporidia pluriseptata.

Perithecia laxe gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 300-320  $\approx$  22-24; sporidia 160-185  $\approx$  9-11; in cortice in « Australia »

*L. larvispora*

Perithecia erumpentia, deinde superficialia, tomento denso, viridulo tecta, 2-3-subconnata; asci clavati vel cylindracei; sporidia cylindracea, triseptata, loculis duobus centralibus fere globosis, hyalinis, 35-45  $\approx$  7,5-10; in ligno *fagineo* in Am. bor.

*L. viridicoma*

Perithecia gregaria, furfuracea; asci.... non visi; sporidia 50  $\mu$ . longa, quasi eis *Bombardiae fascic.* similia (An hujus generis?). In ligno putri « Ceylon »

*L. Janus*

### Clavis analytica specierum generis « *Acanthostigma* »

*A* Sporidia continua vel 1-2-septata.

Perithecia 75-100  $\mu$ . d.; superficialia, collapsa, setulis nigris divergentibus pulchre vestita; asci angusti fusoides; sporidia 62-75  $\mu$ . longa, plasmate subinde medio partito (An demum pluriseptata?) in lignis in Am. bor.

\**A. pulchritum*

Perithecia minima, globosa, pilis brevibus tecta; asci ovoidei 4-6 spori, 45  $\approx$  10; sporidia 40  $\approx$  4, unicellularia? (An demum pluricellularia?) in *Vaccinio* in Tyrolia

\**A. erysiphoides*

Perithecia globosa, undique pilis longis, simplicibus tecta; asci clavati; sporidia ovoideo-elongata, bisepata; in foliis ramulisque pineis subnive

\**A. niveale*

*B* Sporidia triseptata.

§ Species thallicolae.

(1) Potius var. *L. ovinae* habenda.

Perithecia sparsa, minuta,  $\frac{1}{6}$ - $\frac{1}{4}$  mm. d.; asci 70-80  $\times$  12-15; sporidia 17-20  $\times$  6-7; in thallo *Peltigerae* in Helvetia

*A. Peltigerae*

§§ Lignicolae vel corticolae.

Perithecia sparsa vel lenissime gregaria 150-180  $\mu$ . d.; asci 25-30  $\times$  10-12; sporidia 9-11  $\times$  3-3,5; in ramis *Fagi* in Patagonia (Anaptis sub *Chaetosphaeria censendum*?)

\**A. imperspicuum*

Perithecia conferta, 90-120  $\mu$ . d.; asci 75  $\times$  8-9; sporidia 18-20  $\times$  4; in ramis *Fagi* in Gallia

\**A. punctiforme*

Perithecia subsparsa,  $\frac{1}{4}$  mm. d.; asci 90-100  $\times$  12-14; sporidia 25-30  $\times$  5-7; in ramis decorticatis in It. bor.

*A. affine*

§§ Follicolae vel caulincolae.

Perithecia sparsa, inaequalia; asci 70  $\times$  10; sporidia 13-15  $\times$  2-2,5; in foliis *Sequoiae* in California

\**A. Sequoiae*

Perithecia hypophylla, sparsa, 150-200  $\mu$ . d.; asci obovati, 4-6-spori; sporidia 15-16  $\times$  3-3  $\frac{1}{2}$ ; in foliis *Magnoliae* in Am. bor.

\**A. saecardiooides*

Perithecia epiphylla 300-600  $\mu$ . d.; subastoma; asci 60  $\times$  10; sporidia 12  $\times$  3; in foliis *Hederae* in Gallia

\**A. Hederae*

Perithecia globulosa, minuta, apice pertusa; asci 50  $\mu$ . longi; sporidia fusoides, fumoso-grisea, 15-20  $\mu$ . longa, continua mox 2-3-septata; in foliis *Abietis* in Bavaria

\**A. parasiticum*

Perithecia sparsa vel subgregaria, circ. 0,1 mm. d.; setis usque 0,4 mm. longis, flexuosis ornata, asci 7-90  $\times$  8-9; sporidia disticha guttata vel triseptata; in caulibus *Urticae* in Fennia

\**A. longisetum*

Perithecia superficialia, subglobosa,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. d.; asci 75-100  $\times$  7-10; sporidia 20-25  $\times$  4-5; in caulibus *Cirsii* et *Artemisiae* in Am. bor.

\**A. occidentale*

○ Sporidia quinqueseptata.

§ Thallicolae.

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{4}$  mm. d.; asci 60  $\times$  10-11; sporidia 24-26  $\times$  3-4; in thallo *Tapesiae* in Algeria bavarica

*A. byssophilum*

§§ Ligni-vel corticolae.

Perithecia subsparsa,  $\frac{1}{3}$  mm. d.; asci 10-120  $\times$  6-8; sporidia 30-34  $\times$  4-5; in cortice *Betulae* in Fennia

*A. fennicum*

Perithecia sparsa,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. d.; asci 90-100  $\times$  18-22; sporidia 40-44  $\times$  5-7; in *lignis* in Am. bor.

*A. Clintonii*

Perithecia subgregaria,  $\frac{1}{4}$ - $\frac{1}{5}$  mm. d.; asci 65-75  $\times$  10-12; sporidia 22-25  $\times$  4-5; in *ligno putri* in It. bor. et Am. bor.

*A. perpusillum*

Perithecia subgregaria, minuta, 100-120  $\mu$ . d.; asci 40-50  $\times$  12-14; sporidia 22-26  $\times$  3-3  $\frac{1}{2}$ ; in ligno decorticato *Salicis* in It. bor.

*A. revocatum*

Perithecia laxe gregaria,  $\frac{1}{12}$ - $\frac{1}{10}$  mm. d.; asci 80-85  $\times$  15-16; sporidia 50-60  $\times$  4-4  $\frac{1}{2}$ ; in culmis *Triticis* in It. bor.

*A. pygmaeum*

Perithecia minuta, globosa, lenticularia; 150-200  $\mu$ . sparsa, epiphylla; asci 50  $\times$  18-19; sporidia 35  $\times$  6-5,7. Ad folia *Eugeniae* in Brasilia

\**A. guaraniticum*

§§ Culmicolae.

Perithecia sparsa,  $\frac{1}{4}$  mm. d.; asci 50-60  $\times$  8-9; sporidia 32-36  $\times$  2  $\frac{1}{2}$ -3; in culmis *Graminum minorum* in It. bor.

*A. hispidulum*

▷ Sporidia 7-pluriseptata.

Perithecia gregaria, $\frac{1}{4}$ mm. d.; asci 90-100 $\approx$ 10-14; sporidia 7-9-septata 42-46 $\approx$ 4-5; in ligno udo in Am. bor.	<i>A. Scopula</i>
Perithecia sparsa, 120-130 $\mu$ . d.; asci 110-120 $\approx$ 14-16; sporidia 50-56 $\approx$ 5-7, dein 7-9-septata; in lignis <i>quercinis</i> et <i>fagineis</i> in Helvetia et It. bor. (Adest var. <i>brachysporum</i> in <i>Quercu</i> in It. bor.)	<i>A. minutum</i>

**Clavis analytica specierum generis « Zignoëlla »**

*A* Sporidia imperfecte evoluta (continua, guttata; an demum septata?)

§ Sporidia monosticha.

Perithecia gregaria, $\frac{1}{6}$ mm. d.; asci 45-50 $\approx$ 4-5; sporidia 6-8 $\approx$ 2-3; in ligno vetusto <i>Hypophaës</i> in Fennia et Germania	<i>Z. pygmaea</i>
Perithecia gregaria vel hic inde sparsa, $\frac{1}{6}$ - $\frac{1}{5}$ mm. d.; asci 85-95 $\approx$ 6-7; sporidia 12 $\approx$ 5; in ligno <i>fagineo</i> putri in Belgio	<i>Z. groenendalensis</i>
Perithecia $\frac{1}{4}$ mm. d.; gregaria; asci . . . ; sporidia 25-30 $\approx$ 10-12; in lignis in Am. bor. (ascis ignotis in sectione incerta)	<i>Z. latericolla</i>
Perithecia gregaria, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; asci 52 $\approx$ 8; sporidia 4-guttata, 12 $\approx$ 4; in truncis <i>Fagi</i> in Germania	* <i>Z. aterrima</i>
Perithecia minuta, gregaria; asci 40 $\approx$ 45; sporidia 8 $\mu$ . longa; in stromate <i>Diatrypellae quercinae</i> in Britannia	* <i>Z. ostioloides</i>
Perithecia semiimmersa, globosa, tandem cupulari-aperta, dece- denta; asci 150 $\approx$ 15-20; sporidia 70 $\approx$ 7, denique medio septata; in ramis <i>Ilicis Aquifolii</i> in Hollandia et Gallia. (An e genere amovenda?)	* <i>Z. insculpta</i>
Perithecia sparsa vel hinc inde 2-4-gregaria, 350-400 $\mu$ . d.; asci 150-206 $\approx$ 10-14; sporidia mono-vel disticha, 6-blasta 45-48 $\approx$ 5-6; in ramis <i>Pernettiae</i> in Fuegia	* <i>Z. leptosperma</i>
Perithecia sparsa; asci cylindracei; sporidia (ut videtur monosticha) 12 $\approx$ 4, continua; in cortice interiore <i>arborum</i> in Australia (An hujus generis?)	* <i>Z. subcorticalis</i>
§§ Sporidia disticha vel tristicha.	
Perithecia sparsa, oblique evoluta, $\frac{1}{4}$ mm. d.; asci 80-100 $\approx$ 7-9; sporidia 30-32 $\approx$ 4; in cortice <i>Salicis</i> in Suecia	<i>Z. obliqua</i>
Perithecia sparsa, $\frac{1}{5}$ - $\frac{1}{4}$ mm. d.; asci clavati; sporidia 16-20 $\approx$ 4-5; in ramis <i>Rosae</i> in Britannia	<i>Z. rhodobapha</i>
Perithecia conferta, stromate insidentia, collapsa, $\frac{1}{3}$ mm. d.; asci 70-80 $\approx$ 8-11; sporidia 20-25 $\approx$ 4-5; in ligno in Germania	<i>Z. Archeri</i>
Perithecia $\frac{1}{4}$ mm. d., gregaria; asci . . . non visi; sporidia 25-30 $\approx$ 10-12; in lignis in Am. bor. (Aspis ignotis, in sectione incerta)	<i>Z. latericolla</i>
Perithecia gregaria; asci clavati; sporidia 22-28 $\approx$ 6; in sarmentis <i>Vitis</i> in Slavonia	* <i>Z. Vitis</i>
Perithecia gregaria; asci cylindracei; sporidia subdisticha, quadri- nucleata, (34-36 $\approx$ 12 sec. icon.) In <i>putaminibus</i> in Helvetia (?)	* <i>Z. Dubyî</i>
Perithecia sparsa, minutissima; asci 30 $\approx$ 6-7; sporidia 7 $\approx$ 2-3, tri- nucleata; in lignis, quae purpureo tingit, in Borneo	* <i>Z. tingens</i>

- Perithecia sparsa vel laxe gregaria, 220-350  $\mu$ . d.; asci 110-120  $\approx$  6-7; sporidia 50-60  $\approx$  2-4, crasse 6-guttata; in ramis *Berberidis ilicifoliae* in Islandia \**Z. longispora*
- Perithecia sparsa vel hinc inde 2-1-gregaria, 350-400  $\mu$ . d.; asci 150-206  $\approx$  10-14; sporidia disticha vel monosticha, 45-48  $\approx$  5-6, 6-blasta; in ramis *Pernettiae* in Fuegia \**Z. leptosperma*
- Perithecia gregaria,  $1\frac{1}{2}$  mm. d.; asci 94-14  $\approx$  18; sporidia 32-40  $\approx$  5-7, 4-6-guttata; in trunco *Carpini* in Slavonia \**Z. sociabilis*
- Perithecia 0,3 mm. d.; asci subcylindracei; sporidia (ut videtur disticha) 7  $\approx$  4, continua; in ramis decorticatis in Britannia (An hujus generis?) \**Z. dealbata*
- †† Species majores (h. est sporidiis 30 et amplius  $\mu$  longis).
- Perithecia vix gregaria,  $1\frac{1}{3}$  et fere  $1\frac{1}{2}$  mm. d.; asci 140-160  $\approx$  16-18; sporidia 34-36  $\approx$  9-11; in ramis decorticatis *Salicis* in Gallia *Z. sequanica*
- Perithecia  $1\frac{1}{2}$  mm. d.; subsparsa; asci 200  $\approx$  10; sporidia 30  $\approx$  6; in ligno corrupto in Am. bor. *Z. macrasca*
- Perithecia sparsa,  $1\frac{1}{3}$ - $1\frac{1}{2}$  mm. d.; asci . . . non visi; sporidia (monosticha?) 24-30  $\approx$  6-7; in ligno *Salicis* in Gallia. (Ascis ignotis in sectione incerta) \**Z. salicicola*
- §§ Sporidia disticha.
- † Species minores (h. est sporidiis usque 28  $\mu$  longis).
- Perithecia gregaria,  $1\frac{1}{3}$  mm. d.; asci 45-50  $\approx$  10-12; sporidia 16-18  $\approx$  6-7,5; in ligno putri in Am. bor. *Z. exigua*
- Perithecia seriata,  $1\frac{1}{5}$  mm. d.; asci 60-75  $\approx$  6-8; sporidia 16-18  $\approx$  3; in lignis in Britannia *Z. seriata*
- Perithecia dense gregaria, 100-120  $\mu$ . d.; asci 70-80  $\approx$  15-17; sporidia 17-19  $\approx$  7-8; in cortice *P. puli* in Gallia *Z. punctiformis*
- Perithecia sparsa,  $1\frac{1}{3}$  mm. d.; asci 70-80  $\approx$  10-12; sporidia 18-22  $\approx$  5-6; in ramis *Pineis* in Britannia *Z. oblitterans*
- Perithecia subsparsa,  $1\frac{1}{4}$  mm. d.; asci 50-60  $\approx$  10; sporidia 16-18  $\approx$  5-6; in cortice *Oleae* in It. bor. *Z. herbana*
- Perithecia crustaceo-conservata,  $1\frac{1}{8}$ - $1\frac{1}{7}$  mm. d.; asci 55-65  $\approx$  7-8; sporidia 20-22  $\approx$  3-4; in ligno *Pini* in Fennia *Z. crustacea*
- Perithecia  $1\frac{1}{8}$ - $1\frac{1}{7}$  mm. d.; asci 50-60  $\approx$  10-12; sporidia 17-19  $\approx$  5; in ligno *Piceae* in Fennia *Z. translucens*
- Perithecia sparsa,  $1\frac{1}{3}$  mm. d.; asci 95-105  $\approx$  10-12; sporidia 22-25  $\approx$  4-5; in cortice in Sinis *Z. Maingayi*
- Perithecia sparsa, saepe ostiolo crasso, cylindraceo instructa,  $1\frac{1}{4}$  mm. d.; asci 80  $\approx$  19; sporidia 17-20  $\approx$  6-7; in asceribus *Pineis* in Am. bor. *Z. soluta*
- Perithecia gregaria, basi ligno insculpta vel crusta stromatica tecta,  $1\frac{1}{4}$ - $1\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  6-7; sporidia 18-20  $\approx$  3,5; in truncis ramisque *Rosae* in It. bor. *Z. eutypoides*
- Perithecia sparsa,  $1\frac{1}{9}$ - $1\frac{1}{7}$  mm. d.; asci 55-65  $\approx$  9-11; sporidia 16-19  $\approx$  5-5; in ligno vetusto in Fennia *Z. minutissima*
- Perithecia subsparsa,  $1\frac{1}{4}$ - $1\frac{1}{3}$  mm. d.; asci 60-70  $\approx$  10-12; sporidia 16-18  $\approx$  4-5; in ligno *Lonicerae* in Iura Helvetiae *Z. Jurana*

- Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 65-75  $\approx$  15-16; sporidia 24-27  $\approx$  7-8; in ligno *Pini* in Helvetia *Z. Morthieri*
- Perithecia dense gregaria,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  9-12; sporidia 25-28  $\approx$  4-5; in ligno et cortice *Coryli*, *Quercus* et *Betulae* in fere tota Europa et Am. bor. (adest var. *rumsalensis* in ligno *quercino* in Fennia) *Z. ovoida*
- Perithecia irregularia,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 100-110  $\approx$  10-12; sporidia 25-28  $\approx$  5-6; in *Moro* in Gallia *Z. Mori*
- Perithecia gregaria vel sparsa obtuso-conica,  $\frac{1}{2}$  mm. d.; asci 124  $\approx$  8; sporidia 28  $\approx$  4; in ramis *Sambuci* in Germania *\*Z. conica*
- Perithecia conferta; asci 88  $\approx$  8; sporidia 20  $\approx$  6; in ligno *quercino* in Germania *\*Z. papillata*
- Perithecia sparsa, 0,4 mm. d.; asci 100-110  $\approx$  11-12; sporidia 18-26  $\approx$  6; in ligno *Populi* in Fennia *\*Z. emergens*
- Perithecia majuscula; asci cylindracei; sporidia (disticha?) 25-30  $\approx$  8-10; in cortice *Sequoiae* in Am. bor. *\*Z. Sequoiae*
- Perithecia laxiusculae 3-10-aggregata, 200-250  $\mu$ . d.; asci 90-100  $\approx$  9-12; sporidia 16-20  $\approx$  5-6; in trunco *Fagi* in Patagonia *\*Z. patagonica*
- Perithecia sparsa vel hinc inde laxe gregaria, 180-200  $\mu$ . d.; asci 75-80  $\approx$  6-7; sporidia 16-17  $\approx$  3-3,5; in ligno *Fagi* in Suecia *\*Z. australis*
- Perithecia sparsa, 0,2-0,4  $\mu$ . d.; asci 75-95  $\approx$  9-12; sporidia 18-22  $\approx$  4-6; in ligno *pineo* in Lapponia rossica *\*Z. Oudemansi*
- Perithecia  $\frac{1}{6}$  mm. d.; asci 50  $\approx$  6-7; sporidia 12-15  $\approx$  2  $\frac{1}{2}$ -3; in ligno *Vaccini* in Am. bor. *\*Z. subvestita*
- Perithecia sparca vel hinc inde gregaria, 350-400  $\mu$ . d.; asci 55-65  $\approx$  15-20; sporidia 19-20  $\approx$  6-7; in truncis *fagineis* in Fuegia *\*Z. fuegiana*
- Perithecia sparsa vel gregaria hysteriformia; asci clavato-cylindracei; sporidia 35  $\approx$  8; in ligno *quercino* in Am. bor. *\*Z. querceti*
- Perithecia sparsa vel gregaria, 400  $\mu$ . d.; asci clavati, mox evanidi; sporidia 20-30  $\approx$  5; in truncis *Fagi* in Fuegia *\*Z. antarctica*
- Perithecia late et dense gregaria,  $\frac{1}{5}$ - $\frac{1}{2}$  mm. d.; asci clavulati; sporidia 20-22  $\approx$  4-5; in ligno *Carpini* in Slavonia *\*Z. Haynallii*
- Perithecia dense gregeria,  $\frac{1}{5}$ - $\frac{1}{3}$  mm. d.; asci tereti-clavulati; sporidia 20  $\approx$  6; in ligno putri in Slavonia *\*Z. ramenticola*
- $\dagger\dagger$  Species majores (hoc est sporidiis 30 et amplius  $\mu$ . longis).
- Perithecia gregaria vel vix sparsa immersa,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. d.; asci 150-160  $\approx$  18-20; sporidia 34-36  $\approx$  6-7; in assere *pineo* in Fennia *Z. immersa*
- Perithecia gregaria,  $\frac{1}{3}$  mm. d.; asci 135-145  $\approx$  10-12; sporidia 26-32  $\approx$  5-6; in ligno *Aceris* in Am. bor. *Z. atrella*
- Perithecia gregaria,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 105-120  $\approx$  16-18; sporidia 32-35  $\approx$  6-8; in cortice *Ulmi* et *Salicis* in Rhenogovia *Z. corticola*
- Perithecia sparsa,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci . . . non visi; sporidia (disticha?) 24-30  $\approx$  6-7; in ligno *Salicis* in Gallia (Ascis ignotis, in sectione incerta) *\*Z. salicicola*
- C* Sporidia 4-pluriseptata.
- §* Sporidia disticha.

† *Perithecia gregaria*

- Perithecia gregaria* (rarius subsparsa)  $\frac{1}{3}$  mm. d.; asci 60-70  $\approx$  12-14; sporidia quadrisepata, 22-24  $\approx$  1; in cortice *Betulae* in Sibiria *Z. nitidula*
- Perithecia gregaria*, saepe collapsa,  $\frac{1}{3}$  mm. d.; asci 120-130  $\approx$  12-15; sporidia 5-7-septata, 40-45  $\approx$  5-7; in *corticibus et lignis* in Britannia *Z. collabens*
- Perithecia laxe gregaria*,  $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  9-11; sporidia quinquesepata, 20-25  $\approx$  5-7,5, in ligno *quercino* in It. bor. *Z. fallax*
- Perithecia dense gregaria*,  $\frac{1}{3}$  mm. d.; asci 100-110  $\approx$  12-14; sporidia 5-septata, 26-32  $\approx$  5-6; in ligno *quercino* in It. bor. *Z. dolichospora*
- Perithecia subgregaria*,  $\frac{1}{6}$  mm. d.; 100-110  $\approx$  7-9; sporidia 5-7-septata, 36-40  $\approx$  2,5-3; in ligno *fagineo* in It. bor. *Z. macrospora*
- Perithecia subgregaria*, basi setis rigidis cincta; asci 60-100  $\approx$  15-20; sporidia 30-33  $\approx$  5-6, 9-pluriseptata; in ligno carioso in Abyssinia \**Z. intermedia*

†‡ *Perithecia sparsa* vel subsparsa.

- Perithecia sparsa*,  $\frac{1}{3}$  et fere  $\frac{1}{2}$  mm. d.; verrucosa; asci 120-130  $\approx$  15-20; sporidia 32-35  $\approx$  8-10; in ligno *Oleae* in It. bor. *Z. Hanburyana*
- Perithecia sparsa*,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d.; asci 90-100  $\approx$  16-19; sporidia 36-40  $\approx$  8-9; in cortice *Populi* in Gallia *Z. populinæ*
- Perithecia sparsa*,  $\frac{1}{3}$  mm. d.; asci 90-100  $\approx$  15-17; sporidia 58-63  $\approx$  6-7, pluriseptata; in petiolis *Astrocaryi* in Brasilia *Z. Astrocaryi*
- Perithecia sparsa* vel laxe gregaria,  $\frac{1}{3}$ - $\frac{1}{4}$  mm. d., ostiolo longisculo; asci 150-160  $\approx$  10-12; sporidia 27-28  $\approx$  6-7, pseudo-quinque-septata; in assere fabrefacto in Amer. merid. \**Z. incerta*
- Perithecia discreta* vel sparsim gregaria; asci 160-180  $\approx$  11; sporidia 5-8-nucleata, 25-28  $\approx$  7-8; in ligno arborum *Quercus* in Oelandia \**Z. sexnucleata*
- Perithecia sparsa*, vel parce coalescentia,  $\frac{2}{3}$  mm. d.; asci 150-180  $\approx$  20; sporidia 5-7-septata 60-65  $\approx$  6,5; in caudicibus *Quercus* in Gallia \**Z. megalospora*
- Perithecia solitaria*, minuta; asci 90-100  $\approx$  10; sporidia 5-10-septata; 28-35  $\approx$  3,5-4; in trunco *Quercus* in Germania \**Z. Britzelmayri*
- Perithecia sparsa*,  $\frac{1}{2}$  mm. d.; asci cylindracei; sporidia 5-7 septata, 40  $\approx$  4; in ligno nudo in Australia \**Z. australica*

## §§ Sporidia monosticha.

- Perithecia sparsa*,  $\frac{1}{3}$  mm. d.; asci 150-170  $\approx$  9-10; sporidia pluriseptata 30-33  $\approx$  6-7; in ramulis decorticatis *Fraxini* in It. bor. *Z. nematasea*
- Perithecia sparsa* vel vix gregaria, usque fere 1 mm. d; asci 240-260  $\approx$  10; sporidia pluriseptata, 30-33  $\approx$  8; in ramis *Oleae* in Algeria *Z. scalaris*

**Clavis analityca specierum generis « Calospora » (1)**

A Species sporidiis utrinque appendicula auctis.

§ Sporidia triseptata.

*Perithecia* corticola, circumdata, 4-12 in quoque stromate; asci 75-(1) Clavis generum *Winterella*, *Gnomoniopsis*, *Grypotoderis*, *Melanops* etc., quia monotypicorum, omittuntur.

- 90  $\approx$  14-16; sporidia 25-28  $\approx$  6-8; in ramis *Aceris* in Britannia,  
Gallia, Germania et Hollandia *C. Platanoidis*
- Perithecia subcircinata; stroma disco erumpente, ostiolis exsertis;  
asci ampli; sporidia ex elliptico-fusoidea; in ramis *Pruni* in Ger-  
mania (Mili dubia: sec. cl. De Not. vix diversa a *C. Platan.*) \**C. capsularis*
- Perithecia in stromate transversim erumpente; asci . . . non visi;  
sporidia oblonga subinde una extremitate latiora, 25  $\mu$ . longa;  
in ramis *Cerasi* in Am. bor. \**C. pensylvanica*
- Perithecia irregulariter circinantia, stromate corticali tecta; asci . . .  
non visi; sporidia triseptata; in cortice ramorum *Coryli* in Ardennis \**C. secedens*
- Perithecia pauca, collis una erumpentibus, apice stellatis; asci . . .  
non visi; sporidia fusiformia, brevia; in ramis *Rhois* in Am. bor. \**C. gemmata*
- Perithecia stromate corticali, valsoideo immersa, circinantia; asci  
90-105  $\approx$  15; sporidia fusoidea, 24-27  $\approx$  6-7, demum triseptata; in  
ramulis junioribus, gelu tactis, *Fraxini* in Belgio \**C. minuta*
- Perithecia globosa, 4-12 et ultra, absque stromate, aggregata, acer-  
vulos valsiformes efficientia; asci 125  $\approx$  25; sporidia 45-55  $\approx$  12;  
in ramis *Quercus* in Gallia (Affinis videtur *C. capsularis*) \**C. arauasiaca*
- Perithecia subcircinaria, in pustulas subcorticales collecta; 125-  
150  $\approx$  17-18; sporidia 35-45  $\approx$  7-8; in ramulis *Quercus* in It. bor. \**C. ambigua*
- §§ Sporidia quinqueseptata.**
- Perithecia in stromate conoideo vario, majuscule, ostiolis longiu-  
sculis; asci 55-70  $\approx$  9-11; sporidia 32-36  $\approx$  3-4 (et usque 40  $\mu$ .  
longa); in truncis *Rhois* in Am. bor. \**C. rhoina*
- B Sporidia mutica.**
- Perithecia stromate fuscidente immersa; asci 50-55  $\approx$  9-11; spori-  
dia 15-17  $\approx$  4, saepe uniseptata; in truncis ramisque *Rhois* in  
Am. bor. *C. aculeans*
- Perithecia in acervulos conicos, erumpentes collecta; asci 140-150  
 $\approx$  16-18; sporidia 58-65  $\approx$  8-10; in ramis *Quercus* in Gallia, Bri-  
tannia, Germania, Belgio et Italia *C. longipes*



# REPERTORIUM SECUNDUM MATRICES

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## GENERA DUBIA VEL EXCLUDENDA

Aglaospora id ac Pseudovalsa; Trematosphaeria id. ac Melanomma: Winteria inter *Dicyosperas* censendum. Mihi dubia sunt Lophiella et Melanops.

# INDEX ALPHABETICUS SYNONYMICUS

## Sphaeriacearum Phaeo-et Hyalophragmiarum <sup>(1)</sup>

(Species charactere italicico sunt genuinae et in *Iconibus illustratae*. Species asterisco notatae, sed non cursive impressae, verisimiliter sunt genuinae, sed eas examinare nequivi. Nomina cursive impressa sunt *synonyma*. Species asterisco notatae et cursive impressae sunt e genere amovendae vel ex orbe mycetum expellendae, quia valde dubiae. Numeri romani tabulam, in qua species adumbrata est, indicant.)

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