

LICHENUM ITALIAE MERIDIONALIS MANIPULUS QUINTUS,
QUEM COLLEGIT ET ORDINAVIT A. JATTA.

In hoc Manipulo enumerantur:

I. Lichenes lecti:

1. a Prof. J. C. Giordano et ab Arch. S. Pomodoro in Lucania;
2. a Prof. A. Savastano in montibus Stabianis;
3. a Prof. Fr. Solla in insulis Pelagiis;
4. a Bar. V. Cesati in R. Horto Botanico neapolitano;¹
5. a Prof. F. Balsamo in agro neapolitano;
6. a me ipso in Apulia, Licola, Paesto, alioque.

II. Lichenes recogniti:

1. in Herbario C.^{mi} F. Briganti, quod apud Scholam Agrariam in urbe Portici asservatur;
2. in Herbario G. Gasparrini, in R. Universitate Papiae.²

III. Perpauci in praecedentibus Manipulis omissi.

In distributione et enumeratione specierum methodum in Manipulis hucusque editis institutam non mutamus. Quae sequuntur ad *Bibliographiam* addenda.

Ad Lichenographiae Neapolitanae notitiam

Addenda nova.

(Cfr. Man. I, p. 5-11; II, p. 5; et IV, p. 108)

(1874). Ex mandato Administratorum Provinciae Campaniae Prof. N. TERRACCIANO in annis 1871, 1872, 1873 et 1874 nonnullas explevit peregrinationes per diversa ejusdem provinciae loca, et dein suas observationes botanicas in quatuor exposuit relationes editas annis 1872, 1873, 1874 et 1878 (*Caserta*). A. diligentissime stirpes omnes in suis peregrinationibus lectas

¹ Lichenum horum jam notitiam dedimus in opusculo: *Reliquiae Cesatiane per F. Balsamo, A. Jatta, G. C. Giordano*; Rend. della R. Acc. di Sc. Fis. e Mat. di Napoli, fasc. terzo, 1885.

² Recentionem lichenum Herbarii Gasparrini edidimus in *Rivista Italiana di Scienze Naturali*, pubblicata per cura del Circo'lo degli Aspiranti Naturalisti, anno I, fasc. primo, 1885, Napoli.

enumerat, nec praetermittit lichenes, quorum in I^a Relatione enumerantur species CX; in II^a, XXII; in III^a, IX; ac ideo species CXXI, majore ex parte communes. Tamen istae dumtaxat in Italiae meridionalis partibus visae a nobis non sunt: 1. *Phlyctis agelaea* Ach., 2. *Pertusaria fallax* Mass., 3. *Pyrenula pinguis* Ach., 4. *Physma omphalarioides* Anzi, 5. *Amphiloma lobulatum?*, 6. *Verrucaria maculiformis?*, quae forsitan ex parte sunt excludendae.

(1875). Naturam chemicam lichenum investigans Prof. E. PATERNÒ, anno 1875, notitiam *acidi usnici* primus dedit, quem ex *Usneae* resolutione obtinuit (*Gazz. ch. ital.* tom. IV, p. 113), formulamque ita expressit: $C_{18}H_{16}O_7$.

(1876). Item *acidum atranoricum* in *Lecanora atra* Hds. simul cum Professore OGLIAROLO invenisse anno sequente annuntiavit (*Gaz. ch. it.* VII, 289).

(1878). Et his aliam in ephemeride laudata dissertationem adjecit anno 1878 (*Gazz. ch. it.* XIII), in qua Professoris O. HESSE, qui pridem *acidum carbousnicum* invenerat, formulamque declaraverat $C_{18}H_{18}O_8$ (*Annalen der Chemie und Pharmacie* CXXXVII, p. 241) scripta recensuit, et *acidum carbousnicum* idem esse cum *acido usnico* asseveravit.

(1880). Dein Prof. E. PATERNÒ aliud scripsit opusculum in Actis R. Accad. Lyncaeorum anno 1880, cum titulo: *Notizie sui costituenti chimici dello Stereocaulon vesuvianum* Pers.; ut quaereret quomodo *acidus atranoricus*, qui in *Lecanora atra* Hds. inventus est, etiam et *Stereocaulone vesuviano* Pers. extraheretur.

Et cum eo anno Prof. M. COPPOLA edidisset opusculum e titulo: *Contribuzione alla storia chimica dello Stereocaulon vesuvianum* Pers., in quo substantiam describit quamdam acidulam, resinosa, in aqua, in alcoole, in aethylaethere solubilem ac ad $179^\circ - 181^\circ$ fusilem, cum formula $C_2H_3O_2$, et ad *acidum succinicum* proximam, Prof. E. PATERNÒ in suo libello: *Notizia sui costituenti chimici dello Stereocaulon vesuvianum* Pers. eodem anno edito hanc substantiam, quam Professor COPPOLA primus vidit, non tamen acidum sub actione aetheris obtentum, sed salem esse deprehendit.

(1882). Et anno 1882 ipse Professor COPPOLA in epistola ad Professore PATERNÒ se scribit in suspicionem inductum, quod

substantia resinosa *Stereocaulonis vesuviani* Pers. non aliud sit, quam *acidi atranorici* alteratio quaedam ab actione diuturna *hydratis calcici* effecta.

Sed dein Prof. PATERNO opus edidit in Actis R. Accademiae Romanae Lyncaeorum, anno 1882, sub titulo: *Ricerche sull'acido usnico e sopra altre sostanze estratte dai licheni*, quod procul dubio maximi est momenti ad chemicam compositionem lichenum illustrandam. A. refert ad *acidum usnicum acidum cladonicum* a Doct. STENHOUSE in anno 1850 inventum, et *acidum β usnicum* a se ipso una cum Professore OGLIAROLO e *Le-canora atra* Hds. extractum. Atque ut derivata ex *acido usnico* enumerat et describit:

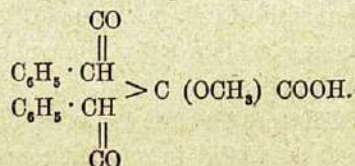
1. *Decarbousneinam*, $C_{17}H_{18}O_6$;
2. *Acidum decarbousnicum*, $C_{18}H_{16}O_5$;
3. *Acidum pirousneticum*, $C_{11}H_{14}O_6$;
4. *Usnetulum*, $C_{13}H_{13}O_4$;
5. *Acidum pirousnicum*;
6. *Usneolum*, $C_{10}H_{12}O_3$;
7. *Acidum usnolicum*, $C_{27}H_{24}O_{10}$;
8. *Anilidem usnicam*, $C_{23}H_{21}O_6N$.

Characteres delineat principales acidi cujusdam sub actione alcoholis fervidi extracti a *Physcia parietina* Schaer., quem vocat *acidum physcicum*, ejusque in studium incumbere cum Professore SCHICHILIONE promittit.

Investigationes *acidi atranorici* cum Professore OGLIAROLO inceptas prosequens, ipsum inveniri in *Stereocaulone vesuviano* Pers. et in *Cladonia rangiforme* Schaer. affirmat, et ejus formulam ita declarat: $C_{19}H_{18}O_8$. Characteres chemicos derivatorum examinat, idest: 1. *acidi atranorinici* ($C_9H_{10}O_4$), et 2. *acidi atrarici* ($C_{10}H_{10}O_8$).

Cum *atranorico* novum acidum detegit quem, adscripta formula $C_{14}H_{18}O_8$, *rangiformicum* appellat.

Denique Doctoris SPIEGEL opinioni adstipulatur de chimica *acidi vulpici* compositione, quam probat hujusmodi formula:



Ad Conspectum literaturae lichenologicae neapolitanae
Addenda nova.

(Cfr. Man. I, pag. 12)

1. BRIGANTI (D^r *Franciscus*) Piante tintorie del Regno di Napoli distribuite in tavole sinottiche. Memoria presentata al R. Istituto d'Incoraggiamento nella tornata 14 gennaio 1836, Napoli 1842.

2. TORNABENE (*Franciscus*) Lichenographia sicula, auctore Francisco Tornabene, Benedectino Cassinensi, Catinae, Typ. Academiae Joenae apud Felicem Sciuto, 1849.

3. TERRACCIANO (*Prof. Nicolaus*) I^a, II^a, III^a e IV^a Relazione intorno alle peregrinazioni botaniche fatte per disposizione della Deputazione Provinciale di Terra di Lavoro in certi luoghi della Provincia, Caserta, Tip. Nobili e C.^o 1872-1878.

4. PATERNÒ (*E.*) Sull'acido usnico (Gazzetta Chimica Italiana vol. VI, Palermo 1875).

5. PATERNÒ (*E.*) et OGLIAROLO Sull'acido atranorico (Gazzetta Chimica Italiana, vol. VII, Palermo 1876).

6. PATERNÒ (*E.*) Sull'acido carbousnico di HESSE come sostanza analoga dell'acido usnico (Gazzetta Chimica Italiana, vol. XIII, Palermo 1878).

7. PATERNÒ (*E.*) Notizie sui costituenti chimici dello *Stereocaulon vesuvianum* Pers. (Atti della R. Accademia dei Lincei, Roma, Aprile 1880).

8. COPPOLA (*Prof. Mich.*) Contribuzione alla Storia Chimica dello *Stereocaulon vesuvianum* Pers. (Gazzetta Chimica Italiana, vol. X, fasc. I, Palermo 1880).

9. PATERNÒ (*E.*) Notizia sui costituenti chimici dello *Stereocaulon vesuvianum* Pers. (Gazzetta Chimica Italiana, vol. X, f. 3, Palermo 1880).

10. COPPOLA (*Mich.*) Lettera al *Professore Emmanuele Paternò* (Gazzetta Chimica Italiana, tom. XII, fasc. IV, Palermo 1882).

11. PATERNÒ (*Em*) Ricerche sull'acido usnico e sopra altre sostanze estratte dai licheni (Atti della R. Accademia dei Lincei, vol. XII, anno CCLXXIX, serie 3^a, Roma 1882).

PROSPECTUS SPECIERUM.

Fam. I. USNEAE.

(Man. III, 201; IV, 109)

Gen. I. **Usnea** Dill.

(Man. I, 14; III, 201; IV, 109)

1. USNEA BARBATA L.

α *ceratina* Ach. Univ. 619. Cfr. Man. IV, 109. — Exs. Arnd. Jur. 905.

Ad truncos prope Neapolim (Hrb. Gasparrini).

β *plicata* Ach. Cfr. Man. III, 201. — Exs. Arnd. Jur. 573, 908.

Ad truncos *Aspromonte* (Hrb. Gasparrini).

2. U. CORNUTA (Fw.) Krb. Prg. 2. — *Usnea barbata* var. *cornuta* Nyl. Syn. 269. — Exs. Rbh. L. E. 667.

Ad truncos et rupes in insula Inarime, *S. Nicola* (Hrb. Gasparrini).

Gen. II. **Bryopogon** Lnk.

(Man. I, 16; IV, 110)

1. BRYOPOGON JUBATUM var. *canum* Ach. Cfr. Man. IV, 110. —

Exs. Schaer. LH. 496; Arnd. Jur. 913, 914.

Ad truncos in prov. neap. (Hrb. Briganti).

Gen. III. **Chlorea** Nyl.1. CHLOREA SOLEIROLII Duf. Schaer. En. 180. Cfr. Man. I, 15. var. *arborea* Nob.

Thallo fruticuloso, erecto, scrobiculoso longitudinaliter ruguloso ergescente.

Ad truncos in sylvis Lucaniae *M. Raparo* (J. C. Giordano).

Obs. Forsan est referenda ad *Chloream cladonioidem* Nyl. Syn. 276, quam non vidi. Formam typicam *Chloreae Soleirolii* Duf. legit. cl. Gussone in insula Inarime ad rupes *valle Frassitelli sotto San Nicola* (Guss. Hrb.).

Gen. IV. **Evernia** Ach.

(Man. I, 23; III, 203; IV, 111)

1. EVERNIA PRUNASTRI L. Cfr. Man. IV, 111. — Exs. Arnd. Jur. 483.
Ad truncos in sylvis Lucaniae *M. Raparo* (Giordano); in prov. neap. (Hrb. Briganti).

Gen. V. **Ramalina** Ach.

(Man. I, 21; III, 202; IV, 110)

1. RAMALINA FRAXINEA L. Cfr. Man. IV, 110. — Exs. Schaer. LH. 491; Rbh. L. E. 248, 249.
Ad truncos in sylvis Lucaniae *M. Raparo* (Giordano); in Sicilia (Hrb. Gasparrini); in montibus stabianis, *Faito* (Savastano).
f. toeniata Ach. Meth. 259. Arnold Flora, 1884, 8.
Ad truncos in Sicilia (Todaro).
2. R. FARINACEA L. Cfr. Man. IV, 110.
Ad truncos in montibus stabianis *Faito* (Savastano).
3. R. MINUSCULA Nyl. Mon. Ram. 66. — Exs. Arnd. Jur. 575.
Ad truncos pirorum in Lucania *Chiaromonte* (Pomodoro).
4. R. POLLINARIA Ach. Cfr. Man. IV, 110. — Exs. Schaer. LH. 393; Rbh. L. E. 102, 893; Arnd. Jur. 738.
Ad truncos in sylvis *Astróni* prope Neapolim et in Lucania (Hrb. Gasparrini).
5. R. DURIAEI DNrs. — *Ramalina pollinaria* var. *Duriaei* DNrs. Gior. Bot. It. vol. II, p. 216. — Exs. Rbh. L. E. 960; Arnd. Jur. 915.
Ad ramulos et truncos in insulis Diomedeis (Hrb. Gasparrini); in insula *Linosà, M.° Rosso* (Solla).

6. R. ROSACEA Schaer. Mss. Hepp. Flecht. 356.
 Ad rupes in insula *Linosa*, *Monte Rosso* (Solla).
 Obs. Cl. Nylander ad *Ramalinam maciformem* Delile fl. de
 l'Égypte (XIX) p. 388, t. 53, f. 2, vel ad *Ramalinam ever-*
noidem Nyl. Prod. 47, hanc speciem refert.
7. R. THRAUSTA Nyl. Syn. 296. — Alectoriae sp. Ach. univ. 596;
 Alectoria sarmentosa var. thrausta Fr. L. E. exs. 267;
 Ram. calycaris var. thrausta Fr. L. E. 30; Evernia
 arenaria Fr. L. E. 23. — Exs. Arnd. Jur. 574.
 Ad truncos *Monte Rosso*, alioque in insula *Linosa* (*Vul-*
cano di ponente) (Solla).

Gen. VI. **Roccella** Bauh.

(Man. I, 20; IV, 111)

1. ROCCELLA TINCTORIA DC. Fl. fr. 2, p. 334; Schaer. En. 7. —
 Parmelia Roccella Ach. Meth. 274.
 In oris Cumae (Hrb. Gasparrini).

Fam. II. CLADONIEAE.

(Man. III, 203; IV, 111)

Gen. VII. **Stereocaulon** Schreb.

(Man. I, 15; II, 214; III, 302; IV, 111)

1. STEREOCAULON NANUM Ach. Cfr. Man. I, 15. — Exs. Schaer.
 LH. 588; Rbh. L. E. 490; Mass. L. I. 142.
 Ad rupes prope Catinam in Sicilia (Hrb. Gasparrini); ad
 tofos in R. Horto botanico neapolitano (Cesati).

Gen. VIII. **Cladonia** Hffm.

(Man. I, 15; II, 6; III, 203; IV, 111)

1. CLADONIA PUNGENS Krb. Cfr. Man. I, 16.
 var. *nivea* Flk.
 Ad terram *Monte Nuovo* (Hrb. Gasparrini).
 var. *flavoviridis* Flk.

- Ad terram in Sicilia et prope Neapolim (Hrb. Gasparrini).
2. C. RANGIFERINA L. Cfr. Man. I, 16.
 var. *sylvatica* Hffm. Fl. Germ. 114. — Exs. Rbh. L. E. 266-268; Mass. L. I. 192, 193; Lojka L. Hung. 118.
 Ad terram *Monte Nuovo* (Hrb. Gasparrini).
3. C. FURCATA Schaer. Cfr. Man. I, 16.
 var. *racemosa* Wahl. Cfr. Man. IV, 112. — Exs. Rbh. L. E. 278; Mass. L. I. 158.
 Ad terram *Monte Nuovo*, prope Neapolim (Hrb. Gasparrini); in insula *Lampedusa* (Solla).
 f. *recurva* Hffm. Cfr. Man. IV, l. c. — Exs. Rbh. L. E. 274.
 Ad terram *Solfatara* (Hrb. Gasparrini).
 var. *subulata* L. f. *stricta* Ach. Univ. 561; Arnold L. fr. Jur. 23 (Flora 1884).
 Ad terram in Aprutiis.
4. C. ENDIVIAEFOLIA Fw. Cfr. Man. I, 15. — Exs. Rbh. L. E. 281, 792.
 Ad terram in insula *Lampedusa* (Solla).
5. C. ALCICORNIS Leight. Cfr. M. I, l. c. — Exs. Schaer. LH. 455; Rbh. L. E. 279.
 Ad terram in *Sicilia*, *Monte Nuovo* (Hrb. Gasparrini).
6. C. SQUAMOSA Hffm. Cfr. Man. I, 17. — Exs. Schaer. L. H. 72-75, 278, 280; Mass. L. I. 217, 280; Rbh. 292-296; Arnd. Jur. 972.
 Ad terram in *Lucania* (Hrb. Gasparrini).
7. C. CHLOROPHAEA Flk. Cfr. Man. III, 204. — Exs. Schaer. LH. 266, 267.
 Ad terram prope Neapolim (Hrb. Gasparrini).
8. C. PYXIDATA L.
 var. *neglecta* Ach. Cfr. Man. IV, 112. — Exs. Arnd. L. I. 784.
 Ad terram in *Lucania* (Hrb. Gasparrini).
 var. *Pocillum* Ach. Cfr. Man. III, 204. — Exs. Mass. L. I. 129.
 Ad terram prope Neapolim (Hrb. Gasparrini).
9. C. FIMBRIATA Schaer.
 var. *scyphosa prolifera* Schaer. — Exs. Rbh. Cl. Eur. exs. XIII, 8-10.
 Ad terram prope Neapolim (Hrb. Gasparrini).

10. *C. OCHROCHLORA* Fw. Cfr. Man. I, 17. — Exs. Schaer. LH. 370, 371; Arnd. Jur. 983.

Ad terram et truncos cariosos in Lucania (Hrb. Gasparri).

Fam. IV. CALICIEAE Fr.

(Man. IV, 113)

Gen. IX. **Calicium** Pers.

(Man. II, 231; IV, 113)

1. *CALICIUM CURTUM* T. B. Brit. 148; Arnold L. Fr. Jur. 225.
Ad truncos vetustos Castanearum in insula Inarime.

Gen. X. **Sphinctrina** Fr.

(Man. II, 24)

1. *SPHINCTRINA TURBINATA* Pers. Tent. Fung. 59; Arnold L. Fr. Jur. 233. — Exs. Schaer. LH. 6; Loika L. Hung. 117.
Ad thallum *Pertusariae communis* DC. in sylvis Apuliae.

Fam. V. PARMELIEAE.

(Man. III, 205; IV, 113)

Sub-Fam. I. Cetrariaceae.

(Man. III, 205; IV, 113)

Gen. XI. **Cetraria** Ach.

(Man. I, 23; III, 205; IV, 113)

1. *CETRARIA ISLANDICA* Ach. Cfr. Man. I, p. 19. — Exs. Schaer. LH. 22; Rbh. L. E. 40, 132, 208; Mass. L. I. 102.
var. *platyna* Ach. Krb. Syst. 44.
Ad terram in sylvis *Aspromonte* (Hrb. Gasparri); in prov. neap. (Hrb. Briganti).

Sub-Fam. II. Peltigeraceae.

(Man. III, 205; IV, 114)

Gen. XII. **Peltigera** Willd.

(Man. I, 20; III, 205; IV, 114)

1. PELTIGERA CANINA L. Cfr. Man. IV, l. c. — Exs. Arnd. Jur. 321.
In montibus stabianis *Faito*; in prov. *Avellino* (Hrb. Gasparrini).
2. P. POLYDACTYLA Hffm. Cfr. Man. IV, l. c. — Exs. Schaer. LH. 30.
Ad terram muscosam in provinciis *Campobasso* et *Salerno*
(Hrb. Gasparrini).
3. P. HORIZONTALIS L. Man. IV, l. c. — Exs. Schaer. LH. 27.
Ad terram in *Lucania*; prope *Neapolim* (Hrb. Gasparrini).

Gen. XIII. **Nephroma** Ach.

(Man. I, 25; II, 215; III, 206; IV, 114)

1. NEPHROMA LAEVIGATUM Ach.
var. *papyraceum* Hffm. Cfr. Man. II, 6.
Ad terram in *Galabria* et *Lucania* (Hrb. Gasparrini).
2. N. TOMENTOSUM Hffm. Cfr. Man. IV, 206. — Exs. Rbh. L. E. 319.
Ad terram in *Lucania* (Hrb. Gasparrini).
3. N. LUSITANICUM Schaer. Cfr. Man. IV, 206. — Exs. Arnd. Jur. 479.
Ad terram muscosam et truncos in *insula Inarime*.

Gen. XIV. **Solorina** Ach.

(Man. II, 6)

1. SOLORINA SACCATA L. Cfr. Man. II, l. c. — Exs. Schaer. LH. 25;
Rbh. L. E. 54, 855; Mass. L. I. 126.
Ad terram muscosam *Portici* (Hrb. Gasparrini).

Sub-Fam. III. *Parmeliaceae* Hook.

(Man. III, 206; IV, 115)

Gen. XV. *Sticta* Schreb.

(Man. I, 16; III, 206; IV, 115)

1. *STICTA HERBACEA* Hds. Cfr. Man. IV, 115.
Ad terram muscosam in Calabria (Hrb. Gasparrini); in prov. neap. (Hrb. Briganti).
2. *S. AMPLISSIMA* Schaer. Cfr. Man. I, 21. — Exs. Schaer. LH. 559; Rbh. L. E. 189; Mass. L. I. 105.
Ad truncos in montibus stabianis *Fatto* (Savastano).
3. *S. PULMONARIA* L. Cfr. Man. I, 20.
Ad truncos in insula Inarime, alioque (Hrb. Gasparrini) in prov. neap. (Hrb. Briganti).

Gen. XVI. *Imbricaria* DC.

(Man. I, 21; II, 215; III, 207; IV, 115)

1. *IMBRICARIA TILIACEA* L. Cfr. Man. I, 21. — Exs. Schaer. LH. 359; Rbh. L. E. 929; Mass. L. I. 326, 329.
Ad truncos in Calabria, in prov. *Campobasso* (Hrb. Gasparrini); in viridariis *Portici* (Hrb. Briganti).
2. *I. PERLATA* L. Cfr. Man. I, 21. — Exs. Schaer. LH. 360; Rbh. L. E. 67, 962; Arnd. Jur. 655.
Ad truncos prope Neapolim (Hrb. Gasparrini); *Portici*, *Favorita* (Hrb. Briganti); in Lucania *Monte Raparo* (Giordano).
var. *ciliata* DC. Fl. fr. II, p. 403. — Exs. Arnd. Jur. 136.
Ad truncos in insula *Linosa*, *Monte Rosso* (Solla).
3. *I. SAXATILIS* L. Cfr. Man. I, 21. — Exs. Schaer. LH. 364, 488, 362, 363; Rbh. L. E. 349, 350; Arnd. Jur. 531.
Ad truncos in Lucania (Hrb. Gasparrini); *Monte Raparo* (Giordano); ad fagos in montibus stabianis (Savastano).
4. *I. CAPERATA* L. Cfr. Man. I, 22. — Exs. Rbh. L. E. 98; Mass. L. I. 20; Arnd. Jur. 740.
Ad truncos in Calabria et Lucania (Hrb. Gasparrini).

5. I. ASPERA Mass. Cfr. Man. III, 208. — Exs. Rbh. L. E. 66, 613; Mass. L. I. 13.
Ad truncos in montibus stabianis *Faito* (Savastano).
6. I. CONSPERSA Ehr. Cfr. Man. I, 22. — Exs. Rbh. L. E. 65; Anzi, L. m. rar. 109; Un. it. crypt. XVIII.
Ad rupes prope Catinam (Hrb. Gasparri); in prov. neap. (Hrb. Briganti).
7. I. PHYSODES L. Cfr. Man. I, 21. — Exs. Rbh. L. E. 186, 429, 793; Arnd. Jur. 257; Mass. L. I. 278.
Obs. Locus in Man. I, 22 notatus excludendus est.
8. I. FULIGINOSA (Fr.) Nyl. in Flora 1868, p. 346; Arnold, Flora 1884, 52. — Exs. Anzi, L. m. r. 114; Rbh. L. E. 902, 928; Arnd. Jur. 825.
Ad truncos castaneorum prope Neapolim et in Lucania.
var. *subaurifera* Nyl. in Flora 1873, pag. 22. — I. subaurifera Arnold, Flora 1884, pag. 53.
Ad truncos in Sardinia (Cabella); ad castaneas in Lucania.
9. I. SOREDIATA Ach. Univ. 406; Arnold, Flora 1884, 54. — I. demissa (Fw.) Krb. Syst. 80. Cfr. Man. III, 208. — Exs. Schaer. LH. 622; Lojka L. Hng. 17; Arnold, Jur. 743.
Ad rupes siliceas in Apulia *Murge*; ad Tiburtinum lapidem prope Paestum.
10. I. GLOMELLIFERA Nyl. Flora 1879, 223; 1881, 453. — Parm. Beloccana Mass. L. Ven. exs. XXVIII. — Exs. Arnold, Jur. 919.
Ad rupes siliceas in Apulia *Murge*.
11. I. BORRERI Turn. Cfr. Man. I, 22. — Exs. Schaer. LH. 361; Rbh. L. E. 184, 954; Mass. L. I. 107; Arnold, Jur. 739.
Ad olearum truncos *Monte Caramanico* (Jatta G.).

Gen. XVII. **Parmelia** Ach.

(Man. I, 30; II, 215; III, 208; IV, 116)

1. PARMELIA CILIARIS L. Cfr. Man. IV, 116.
Ad truncos in *Faito*, Lucania, et *Monte Nuovo* (Hrb. Gasparri); *Monte Raparo* (Giordano).

2. P. STELLARIS L. Cfr. Man. III, 208.
 var. *ambigua* Erh. Cfr. Man. III, 209. — Exs. Schaer. LH. 351.
 Ad truncos in Lucania (Hrb. Gasparrini), et Sardinia (Cabelli).
 var. *ascendens* Fw. Man. III, 1. c. — Anaptychia tenella Mass. Mem. 35. — Exs. Arnold, Jur. 920.
 Ad truncos prope urbem *Avellino* (Hrb. Gasparrini); ad vitem *Bosco tre case* (Savastano); *Portici*, et *Favorita* (Hrb. Briganti).
 f. *tubulosa* Wallr. Krb. Syst. 85. — P. stellaris, var. hispida Fr. — Exs. Schaer. LH. 562.
 Ad truncos in Lucania (Hrb. Gasparrini).
 var. *aipolia* Ehr. Krb. Syst. 85. — Exs. Schaer. LH. 350.
 Ad truncos in Lucania et prope Neapolim (Hrb. Gasparrini).
 var. *semipinnata* Schaer. Cfr. Man. III, 208.
 Ad truncos *Campobasso* et prope Neapolim (Hrb. Gasparrini).
3. P. EROSA (Borr.) Arnold, Ausflüg. Lich. in Tyrol. XVII. 549, Cfr. Man. IV, 118.
 Ad truncos muscosos prope Neapolim (Hrb. Gasparrini); ad truncos fagorum *Matese (Capo d'acqua)*.
4. P. PULVERULENTA Schreb. Cfr. Man. IV, 118.
 Ad fagos in montibus stabianis (Savastano).
 var. *angustata* Hffm. Cfr. Man. IV, 118.
 Ad muscos *Campobasso* (Hrb. Gasparrini).
 var. *grisea* Lmk. Cfr. Man. I, 23. — Exs. Rbh. L. E. 587.
 Ad truncos *Resina* (Hrb. Briganti); ad quercuum truncos *Monte Coppola* (Balsamo); *Massanello* in Lucania (S. Pomodoro).
 var. *adglutinata* Flk. Cfr. Man. I, 24. — Exs. Rbh. L. E. 687; Mass. L. I. 245.
 Ad folium *Peumi Boldu* in R. Hort. Bot. neapolit. (Cesati).
5. P. MUSCIGENA Ach. Univ. 1810, 472. — P. pulverulenta var. muscigena Nyl. Syn. 420; Fr. (Th.) Scand. 136. — Exs. Arnd. Jur. 64; Schaer. LH. 486.
 Ad rupes calcareo-siliceas in Apulia *Murge*.

6. P. OBSCURA Ehr. Cfr. Man. III, 209.
 var. *cyclosetis* Ach. Man. II, 215; III, l. c. — Exs.
 Schaer. LH. 355; Rbh. L. E. 461; Mass. L. I. 248.
 Ad truncum *Cydoniae vulgaris*, *Somma Vesuviana* (Savastano).
7. P. ASTROIDEA var. *Clementiana* Turf. Cfr. Man. IV, 117.
 Ad truncos *Portici* (Hrb. Briganti); in R. Hort. bot. neapolitano (Cesati).
8. P. ALBINEA Ach. var. *dimidiata* Nyl. Flora 1872, pag. 426. —
 Exs. Arnd. Jur. 272.
 Ad saxa silicea in Apulia *Murge*.

Gen. XVIII. **Physcia** Schreb.

(Man. I, 32; III, 210; IV, 119)

1. PHYSICIA PARIETINA L. Cfr. Man. I, l. c. — Exs. Arnd. L. Jur. 747; Mass. L. I. 31.
 Ad truncos et frutices in Lucania; prope Neapolim, et *Campobasso* (Hrb. Gasparrini); *S. Iorio* (Savastano); *Favorita*, *Portici*, *Resina* (Hrb. Briganti); in R. Hort. Neapolit. (Cesati).
 var. *aureola* Schaer. Cfr. Man. III, 210. — Exs. Mass. L. I. 31; Arnd. L. Jur. 65.
 Ad rupes vulcanicas in insula *Linosa* (Solla).
 var. *ectanea* Schaer. Cfr. Man. IV, 119.
 Ad rupes vulcanicas in insula *Lampedusa* (Solla).
2. P. CONTROVERSA Mass. Cfr. Man. III, 210.
 var. *pulvinata* Mass. Sched. crit. — Exs. Mass. L. I. 36.
 Ad juniperos in oris *Licola*.
3. P. VILLOSA Dub. Bot. gall. 611; Schaer. En. 10; Nyl. Syn. 407. — *Parmeliae* sp. Ach. Meth. 254; *Everniae* sp. Fr. L. E. 27; *Borrera solenaria* Ach. Univ. 505. — Exs. Rbh. L. E. 903.
 Ad frutices in insula *Linosa*, *Monte Rosso* (Solla).

Fam. VII. LECANOREAE *Fée.*

(Man. III, 211; IV, 120)

Sub-Fam. I. *Rinodineaceae.*

(Man. III et IV, l. c.)

Gen. XIX. **Pannaria** *Delis.*

(Man. I, 34; II, 216; III, 211; IV, 120)

1. PANNARIA RUBIGINOSA Thun.

var. *conoplea* Ach. Krb. Syst. 105. — *Pannaria coeruleo-badia* Mass. Ric. 111. — Exs. Schaer. LH. 369; Rbh. L. E. 478.

Ad truncos in Lucania (Hrb. Gasparrini).

2. P. PLUMBEA Lgthf. Cfr. Man. I, 25. — Exs. Schaer. LH. 564.

Ad truncos in Lucania *Monte Raparo* (Giordano).

3. P. LANUGINOSA Ach. Cfr. Man. IV, 120.

Ad muscos in R. Hort. Bot. neapolit. (Balsamo); Neapoli, *Campobasso* (Hrb. Gasparrini).

Gen. XX. **Candelaria** *Mass.*

(Man. I, 28; III, 212; IV, 120)

1. CANDELARIA VITELLINA Ehr. Cfr. Man. IV, 120.

Ad muscos in Lucania (Hrb. Gasparrini).

2. C. VULGARIS DC. Cfr. Man. I, 27.

Ad arbutorum truncos in R. Hort. Bot. Neapolitano; ad truncos in Lucania (Hrb. Gasparrini).

Gen. XXI. **Amphiloma** *Fr.*

(Man. I, 35; II, 216; III, 212; IV, 120)

1. AMPHILOMA PUSILLUM Mass. Cfr. Man. II, 216. — Exs. Rbh. L. E. 363; Mass. L. I. 99-101; Arnd. Jur. 383, 384, 489, 784.

var. *turgidum* Mass. Sched. 67. — Exs. Mass. L. I. 100;
Arnd. Jur. 383.

Ad rupes calcarias in Apulia *Ruvo*.

var. *pulvinatum* Mass. Sym. 13. — Amphiloma muro-
rum var. Hffm. Cfr. Man. I, 35. — Exs. Mass. L. I. 97.

Ad rupes calcarias in Apulia *Ruvo*.

2. A. MURORUM Hffm. Cfr. Man. IV, 120. — Exs. Mass. L. I.
93-98; Arnd. Jur. 989.

Ad Tiburtinum lapidem prope Paestum.

3. A. AUREUM Schaer. Cfr. Man. III, 213. — Exs. Arnd. Jur. 790.
Ad terram in Lucania (Hrb. Gasparrini).

Gen. XXII. **Ricasolia** Mass.

(Man. III, 213; IV, 121)

1. RICASOLIA SPADICEA Rbh. Flora 1850, 17.

Ad rupes in insula *Lampedusa* (Solla); et Paesto.

var. *Gennarii* Bagl. Cfr. Man. IV, 121.

Ad rupes et tofos calcarios in Apulia.

Obs. Specimina in insulis Petagnis lecta ac in Manipulo
IV, p. 121 enumerata ex parte ad formam typicam sunt
referenda.

2. R. OLIVACEA Bagl. Cfr. Man. IV, 121.

Ad rupes calcarias in Apulia *Ruvo*.

3. R. CESATHI Mass. Mem. 47. — Exs. Mass. L. I. 145.

var. *olivacea* Bagl. Com. cr. it. 1862, 121.

Ad rupes calcarias in Apulia *Bosco di Ruvo*.

var. *grisea* Bagl. Cfr. Man. IV, 121.

Ad rupes calcarias in Apulia *Bosco di Ruvo*.

Gen. XXIII. **Callopisma** DNrs.

(Man. I, 38; II, 320, 224; III, 214; IV, 121)

* *Eucalloptisma*.

(Man. III, l. c.; IV, l. c.)

1. CALLOPISMA AURANTIACUM Lgthf. Cfr. Man. IV, l. c. — Exs. Rbh.
L. E. 867; Mass. L. I. 241-244; Arnd. Jur. 69, 750, 922.

- var. *salicinum* Schaer. Cfr. Man. I, 38.
 Ad truncos quercuum in Aprutiis, et *Campobasso* (Hrb. Gasparrini).
 var. *holocarpum* Ehr. Cfr. Man. I, 38. — Exs. Arnd. Jur. 345.
 Ad fagos *Piano di Faito* (Savastano).
 var. *Oasis* Mass. Sched. cr. 134; Fr. (Th.) Scand. 178.
 — Exs. Mass. L. I. 240; Arnold, Jur. 69.
 Ad Tiburtinos lapides prope Paestum.
2. C. LUTEO-ALBUM Turn. Cfr. Man. IV, 121. — Exs. Mass. L. I. 232-236; Rbh. L. E. 109, 709; Arnd. Jur. 186, 225, 450, 829.
 Ad cortices in R. Hort. bot. neap. (Hrb. Cesati); prope Neapolim (Hrb. Gasparrini).
3. C. CERINUM Ehv. var. *aractinum* Fr. (Th.) Scand. 174.
 Ad rupes calcarias in Apulia *Murge*.
 var. *albisedum* Nyl. Scand. 144. — Cfr. Arnold Franck Jur., Flora 1884, 88.
 Ad truncos quercuum in *Apulia*.
4. C. RUBELLIANUM Ach. Cfr. Man. III, 214. — Exs. Arnd. Jur. 431.
 Ad rupes basalticas in oris *Licola*.
5. C. VARIABLE Pers. Cfr. Man. III, 215. — Exs. Rbh. L. E. 569, 794; Arnd. Jur. 492.
 Ad rupes calcarias in Lucania *Monte Raparo* (Giordano).
6. C. HAEMATITES Chaub. Cfr. Man. II, 10. — Exs. Rbh. L. E. 150, 643; Mass. L. I. 170; Arnd. Jur. 432.
 Ad cortices in R. Hort. bot. neapol. (Cesati).

** *Blastenia* Mass.

(Man. III, 215; IV, 122)

7. C. FERRUGINEUM Hds. Cfr. Man. IV, l. c.
 var. *saxicola* Mass. Cfr. M. IV, l. c.
 Ad tofos in insulis Petagnis, prope Brundusium; et in *Solfatara* (Hrb. Gasparrini).
8. C. PERCROCATUM Arnd. Exs. 924. — Exs. Lojka, Lich. Tyr. 10; Arnd. Jur. 924.
 Ad rupes prope Stabiam.

9. *C. ARENARIUM* Schaer. Cfr. Man. IV, 122.
 var. *leicholytum* Ach. Univ. 425; Arnd. Franck Jur.
 84 (Flora 1884). — Exs. Rbh. L. E. 707.
 Ad tofos calcarios in Apulia *Gravina*.

Gen. XXIV. **Placodium** Hill.

(Man. I, 36; II, 217; III, 216; IV, 122)

* *Euplacodium*.

(Man. III, l. c.; IV, l. c.)

1. *PLACODIUM PRUINIFERUM* Nyl. Lich. Luxbg. 368. — Exs. Arnd.
 Jur. 535.
 Ad tofos calcarios in Apulia *Gravina*; ad rupes calca-
 rias *Gargano* (Pedicino).

* *Psoroma* Ach.

(Man. III, 217; IV, 123)

2. *P. CRASSUM* Ach.
 var. *caespitosum* Sm. Cfr. Man. III, 217. — Exs. Rbh.
 L. E. 18, 242, 243; Mass. L. I. 72; Arnd. Jur. 2.
 Ad terram muscosam *Campobasso* (Hrb. Gasparrini).
3. *P. GYPSACEUM* Sm. Cfr. Man. I, 27. — Exs. Schaer. L. H. 344;
 Rbh. L. E. 241.
 Ad terram *Campobasso* (Hrb. Gasparrini).

Gen. XXV. **Lecanora** Ach.

(Man. III, 217; IV, 123)

** *Ochrolechia* Mass.

(Man. I, 41; II, 221; III, l. c.; IV, l. c.)

1. *LECANORA PALLESCENS* L. Cfr. Man. IV, l. c.
 Ad truncos in Lucania (Hrb. Gasparrini).
 var. *Parella* L. Cfr. Man. IV, l. c.
 Ad rupes *Sant'Agata di Massa* (Balsamo); in insula *Li-
 nosa* (Solla).

** *Eulecanora* Bagl.

(Man. III, 217; IV, 124)

2. L. SUBFUSCA Ach.

var. *distans* Ach. Cfr. Man. IV, 124.Ad cortices *Sant'Anastasia* prope Vesevum (Savastano);
prope Neapolim (Hrb. Gasparrini); in R. Hort. bot.
neapolit. (Cesati); *Monte Coppola* (Balsamo).f. *allophana* Ach. Cfr. Man. IV, 29.Ad truncos prope Neapolim (Hrb. Gasparrini); *Boscotrecase*
(Savastano); *Favorita* (Hrb. Briganti).var. *chlorona* Ach. Cfr. Man. II, 11. — Exs. Rbh.
L. E. 803; Arnd. Jur. 586; Lojka Tyr. 10.Ad truncos *Sant'Anastasia* prope Vesevum (Savastano);
in R. Hort. Bot. neap. (Hrb. Cesati).var. *geographica* Mass. Cfr. Man. III, 218.Ad cortices castaneorum prope Neapolim (Hrb. Gaspar-
rini).var. *campestris* Schaer.; Cfr. Man. III, 218.Ad rupes calcarias *Campobasso* (Hrb. Gasparrini).var. *argentea* Hffm. Cfr. Man. I, 28.Ad petiolum vetustum *Phoenicis dactyliferae* in R. Hort.
bot. neapolit. (Cesati).var. *glabrata* Ach. Krb. Syst. 140. — L. subfusca var.
laevigata Auct. — Exs. Schaer. LH. 309; Rbh. L. E.
213; Mass. L. I. 42.Ad truncum *Ceratoniae* in R. Hort. bot. neap. (Cesati).var. *maculiformis* Bagl. in Erb. crit. It. I, 934. ^{bis} —
Exs. Rbh. L. E. 727.Ad ramulos iuniperorum in oris *Licola*.var. *leucopsis* Hepp. Exs. 381. — Cfr. Arnold Franck
Jur. L., Flora 1884, 110. — Exs. Anzi L. m. r. 192.Ad rupes calcarias in Apulia *Ruvo*.2. L. ATRA Hds. var. *calcarea* Jatta. Cfr. Man. III, 218.

Ad rupes calcarias in Lucania (Hrb. Gasparrini).

3. L. INTUMESCENS (Rbh.) Krb. Cfr. Man. III, 218. — Exs. Rbh.

L. E. 916; Arnd. Jur. 273, 497.

- Ad truncos fagorum in montibus stabianis (Hrb. Gasparini).
4. L. PALLIDA Schreb. var. *albella* Hffm. Cfr. Man. III, 218.
Ad cortices in Sardinia (Cabella).
5. L. FLOTOWIANA Sprgl. Cfr. Man. III, 219. — Exs. Rbh. L. E. 747.
Ad arenarias in Lucania *Lagopesole*.
6. L. BADIA Pers. var. *microcarpa* Anzi. Cfr. Man. IV, 125.
Ad rupes in oris *Licola*.
7. L. CAESIO-ALBA Krb. Cfr. Man. II, 11.
var. *dispersa* Flk. Krb. Prg. 82. — Exs. Lojka L. Hung. 125.
Ad rupes calcarias in Apulia *Murge*.
8. L. PAEPALEA Ach. Syn. 165; Nyl. Scand. 162; Fr. (Th.) Scand. 245.
Ad rupes calcarias *Gargano* (Pedicino).
9. L. HAGENI Ach. Prod. 57.
var. *umbrina* (Ehr.) Mass. Ric. 10. — Exs. Arnd. Jur. 996^{bis}.
Ad rupes vulcanicas in insula Inarime.

*** *Zecra* Fr.

10. L. SORDIDA Pers. Cfr. Man. IV, 125.
Ad arenarias in Lucania *Lagopesole*.

Gen. XXVI. **Rinodina** Ach.

(Man. II, 221; III, 220; IV, 125)

1. RINODINA ALBANA Mass. Cfr. Man. II, 221. — Exs. L. E. 508; Mass. L. I, 216.
Ad juniperos in oris *Licola*.
2. R. EXIGUA Arch. var. *pyrina* Fr. (Th.). — R. *metabolica* Krb. Syst. 123. — Exs. Arnd. Jur. 994.
Ad truncos in insula *Linosa* (Solla).
3. R. ROBORIS Duf. Arnold. L. Frank. Jur., Flora 1884, 186.
Ad castaneas in Insula Inarime.
4. R. CAESIELLA Flk. Cfr. Man. III, 220. — Exs. Rbh. L. E. 78; Arnd. Jur. 161.
Ad rupes basalticas in oris *Licola*.

5. R. CONFRAGOSA Arch. Krb. Syst. 125. — *Parmelia atra* β *confragosa* Fr. L. E. 142.

Ad rupes vulcanicas et arenarias in insula Inarime et prope Paestum.

6. R. CALCAREA Hepp Flora 1860, 69; Arnold Flcra 1872, 38; 1884, 104. — Exs. Arnd. Jur. 161.

Ad rupes et tofos calcarios in Apulia *Ruvo*, *Gravina*.

Gen. XXVII. **Lecania** Mass.

(Man. I, 27)

1. LECANIA FUSCELLA Mass. Krb. Syst. 122. — Exs. Mass. L. J. 305-307; Rbh. L. E. 238, 239.

Ad cortices prope Neapolim.

Gen. XXXVIII. **Dirina** Fr.

(Man. I, 42; III, 222; IV, 127)

1. DIRINA CERATONIAE Ach. Cfr. Man. I, 30.

Ad truncos in insula *Linosa* (Solla).

2. D. REPANDA Ach.

var. *Basaltica* Jatta.

Thallus rimuloso-tartareus, cinerascens; areolis minutis, contiguis, in ambitu crassioribus. Apothecia minuta, confluentia, emersa, subturbinata, ac dein corrosa hypothecium nigrum monstrantia. Thecae et sporae speciei.

Obs. Differt a forma typica, primo visu, propter thallum obscure cinereum, minutissime rimulosum, atque apothecia minora.

Ad rupes vulcanicas et basalticas in Insula Inarime et in oris *Licola*.

Sub-Fam. II. *Urceolariaceae*.

(Man. III, 222; IV, 128)

Gen. XXIX. **Aspicilia** Mass.

1. ASPICILIA VERRUCOSA Ach. Univ. 339. — Arnd. L. Fr. Jur. (Flora 1884) 127. — Exs. Anzi, L. m. r. 211.

Ad muscos in montibus Aprutii.

2. A. CALCAREA L. var. *viridescens* Mass. Cfr. Man. IV, 128. — Exs. Mass. L. I. 263.
Ad rupes basalticas in oris *Licola*.
3. A. CINEREA L. Cfr. Man. IV, l. c. — Exs. Arnd. Jur. 622, 670.
Ad arenarias *Sant'Agata* (Balsamo).

Gen. XXX. **Petractis** Fr.

(Man. I, 52; IV, 128)

1. PETRACTIS EXANTHEMATICA Sm. Cfr. Man. IV, 128.
Ad Tiburtinos lapides prope rudera Paesti.

Gen. XXXI. **Hymenelia** Krph.

(Man. III, 222)

1. HYMENELIA COERULEA Krb. Cfr. Man. III, 222. — Exs. Arnd. Jur. 404.
Ad Tiburtinos lapides prope rudera Paesti; ad rupes calcareas in Lucania *Monte Raparo* (Giordano).
2. H. HYASCENS Mass. Geneac. 12; Beltr. Bass. 153; Krb. Prg. 114. —
Pyrenulae sp. Ach. Univ. 314. — Exs. Arnold, Jur. 36.
Ad rupes calcareas in Apulia *Murge*.
3. H. PREVOSTII (Fr.) Krb. Syst. 329.
f. *patellula* Arnd. — Exs. Arnd. Jur. 936.
Ad rupes calcareas in Apulia *Murge d'Attamura*.

Gen. XXXII. **Urceolaria** Ach.

(Man. I, 38; II, 23; III, 223; IV, 129)

1. URCEOLARIA OCELLATA Will. Cfr. Man. III, 223. — Exs. Rbh. L. E. 122; Mass. L. I. 140.
Ad Tiburtinos lapides prope Paestum.
2. U. SCRUPOSA Ach. Cfr. Man. IV, 129.
var. *vulgaris* Krb. Cfr. Man. IV, l. c.
Ad terram prope *Resina* (Hrb. Gasparrini).
var. *cretacea* Ach. Cfr. Man. I, 31. — Exs. Schaer. L. H. 291; Rbh. L. E. 637.

Ad terram, in Lucania (Hrb. Gasparrini).

var. *bryophila* Ach. Cfr. Man. I, l. c. — Exs. Schaer. L. H. 290; Rbh. L. E. 638; Mass. L. I. 150.

Ad muros in Lucania (Hrb. Gasparrini).

Gen. XXXIII. **Limboria** Ach.

(Man. II, 223)

1. LIMBORIA ACTINOSTOMA Ach. Cfr. Man. II, 223. — Exs. Schaer.

L. H. 573; Rbh. L. E. 435; Mass. L. I. 80, 81.

Ad rupes basalticas in oris *Licola*.

Gen. XXXIV. **Gyalecta** Ach.

(Man. I, 44; II, 223; IV, 129)

1. GYALECTA FLOTOWII Krb. Syst. 171. Arnold L. Frank Jur.

134. — Exs. Rbh. L. E. 622; Arnd. Jur. 94.

Ad truncos in R. Hort. bot. neapolit. (Cesati).

Sub-Fam. III. *Pertusariaceae*.

(Man. III, 223; IV, 129)

Gen. XXXV. **Pertusaria** DC.

(Man. I, 54; II, 232; III, 223; IV, 129)

1. PERTUSARIA COMMUNIS DC. Cfr. Man. IV, 130. — Exs. Mass.

L. I. 16.

var. *pertusa* L. Cfr. Man. IV, l. c.

Ad palum siccum in R. Hort. bot. neap. (Cesati); prope Neapolim (Hrb. Gasparrini); *Portici* (Hrb. Briganti).

2. P. LEIOPLACA Ach. Cfr. Man. IV, 129.

var. *Massalongiana* Beltr. — *Pertusaria Massalongiana* Beltr. Bass. 258; *Pert. leioplaca* Ach. Krb. Prg. 317.

— Exs. Rbh. L. E. 219.

Ad castanearum cortices prope lacum *Licola*.

3. *P. AMARA* Ach. Univ. 324. Nyl. Flora 1873, 22; 1874, 311;
Arnd. L. Fr. Jur. Flora 1884, 140. — Exs. Arnd. Jur.
886, 1000.

Ad cortices fagorum in montibus Stabianis *Faito* (Savastano); ad abietes in Lucania *Ruoti*.

Fam. VIII. LECIDEAE *Fr.*

(Man. III, 224; IV, 130)

Sub-Fam. I. *Psoraceae.*

(Man. III, l. c.; IV, l. c.)

Gen. XXXVI. **Thalloidima** *Mass.*

(Man. I, 45; II, 224; III, 224; IV, 130)

1. *THALLOIDIMA CANDIDUM* Wb. Cfr. Man. III, 224. — Exs. Rbh.
L. E. 12; Mass. L. I. 308.

Ad rupes calcareas in Lucania (Hrb. Gasparrini).

2. *T. VESICULARE* Hffm. Cfr. Man. III, 224. — Exs. Schaer. LH.
168; Rbh. L. E. 434; Mass. L. I. 274.

Ad terram muscosam in Lucania, et *Campobasso* (Hrb. Gasparrini).

var. *teretocarpum* Mass. Ric. 96. — Exs. Mass. L. I. 275.

Ad terram in Vesevo (Hrb. Gasparrini); et in Apulia *Ruvo*.

Gen. XXXVII. **Toninia** *Mass.*

(Man. II, 27; III, 225; IV, 131)

1. *TONINIA AROMATICA* Mass. Cfr. Man. IV, 131. — Exs. Arnd.
Jur. 592.

Ad Tiburtinos lapides prope rudera Paesti.

Gen. XXXVIII. **Psora** *Hffm.*

(Man. I, 44; IV, 130)

1. *PSORA LURIDA* Sm. Cfr. Man. IV, l. c. — Exs. Mass. L. I. 67.
Ad anfractos rupium calcarium in Apulia.

2. *P. DECIPIENS* Ehr. Cfr. Man. I, 45. — Exs. Schaer. LH. 164;
Rbh. L. E. 177.

Ad terram in Lucania *Monte Raparo* (Giordano).

Sub-Fam. II. Lecideaceae.

(Man. III, 225; IV, 131)

Gen. XXXIX. **Biatorina** Mass.

(Man. II, 30; III, 225)

1. *BIATORINA SAMBUCINA* Krb. Prg. 137; Tamburlini Ann. dell'Ist. bot. rom. I. (1884), pag. 24. Th. Fr. Scand. 295. — *Lecaniae* sp. Arnold, L. Fr. Jur. Flora 1884, p. 127.

Ad folia sicca *Agavis americanae* in R. Hort. bot. neapolit. (Cesati).

2. *B. RABENHORSTII* Hepp.

var. *turicensis* Hepp. Arnold, Flora 1884, 124. — *B. turicensis* Mass. Sched. crit. 93. — Exs. Mass. L. I. 149 A.

Ad rupes calcarias in Apulia *Ruvo*.

3. *B. ALOCYZA* Mass. Sym. 42. — Exs. Arnd. Jur. 263, 267.

Ad rupes calcarias in Apulia *Murge*.

4. *B. PRASINA* Fr. (Th.) Scand. 572.

var. *byssacea* Zw. Fr. (Th.) l. c.

Ad truncos fagorum in montibus Stabianis *Faito* (Savastano).

Gen. XL. **Biatora** Fr.

(Man. II, 225; III, 225; IV, 135)

1. *BIATORA TURFOSA* (Mass). Krb. Syst. 158.

Ad terram *Solfatarata* (Hrb. Gasparrini).

2. *B. MENDAX* Anzi Comm. Soc. Crit. It. III, p. 153. — Exs. Arnd. Jur. 821.

Ad abietes prope urbem *Avigliano* in Lucania.

Gen. XLI. **Bilimbia** DNtrs.

(Man. I, 46; II, 227; III, 226; IV, 132)

1. **BILIMBIA MILLIARIA** Fr.
var. *lignaria* Ach. Cfr. Man. I, 33. — Exs. Rbh. L. E. 582; Arnd. Jur. 167.
Ad truncos fagorum in montibus Stabianis *Faito* (Savastano).
2. **B. FAGINEA** Krb. Syst. 212. — *B. oparallacta* Mass. Sym. 45.
— Exs. Arnd. Jur. 49; Rbh. L. E. 535, 536, 602.
Ad cortices *Licola*.
3. **B. MELAENA** Nyl. Bot. not. 1853, 182; Arnold, L. Fr. Jur., Flora 1884, 181. — Exs. Arnd. Jur. 332.
Ad rupes muscosas in Apulia *Murge*.
4. **B. HYPNOPHILA** Ach. Cfr. Man. III, 226.
var. *microcarpa* Th. Fr. Scand. 376; Bot. not. 1863, pag. 9.
Ad muscos prope urbem *Campobasso* (Hrb. Gasparrini).

Gen. XLII. **Scoliciosporum** Mass.

(Man. II, 229; III, 230; IV, 134)

1. **SCOLICIOSPORUM HOLOMELAENUM** Flk. Cfr. Man. IV, 134.
Ad rupes *Solfatara*.

Gen. XLIII. **Lecidea** Ach.* *Lecidella* Krb.

(Man. I, 48; II, 227; III, 226; IV, 133)

1. **LECIDEA ENTEROLEUCA** Schaer. Cfr. Man. IV, l. c. — Exs. Arnd. Jur. 848.
Ad corticem alni *Boscotrecase* (Savastano); ad juniperos *Licola*; ad castaneas *Monte Coppola* (Balsamo); ad fagos *Piano di Faito* (Savastano); et *Campobasso* (Hrb. Gasparrini).

- var. *areolata* Fr. Krb. Prg. 217. — Lecidea enteroleuca
var. *melaleuca* Krb. Syst. 244; Beltr. Bass. 169.
Ad cortices juniperorum in oris *Licola*.
2. L. OLIVACEA Mass. Cfr. Man. III, 227.
Ad cortices juniperorum *Licola*; ad cortices castanearum
Boscotrecase (Savastano), *Cagliari* (Cabella): in R. Hort.
bot. neapol. (Cesati).
3. L. TURGIDULA (Fr.) Schaer. En. 130; Anzi Ctg. 82. — Exs.
Erb. crit. it. I, 1234; Rbh. L. E. 558, 809; Arnd.
Jur. 277.
Ad abietes prope urbem *Avigliano* in Lucania; ad *Phoe-*
nicis dactyliferae petiolum in R. Hort. bot. neapolit.
(Cesati).
4. L. GONIOPHILA Flk. Cfr. Man. IV, 133. — Exs. Lojka L. Hng.
158; Arnd. Jur. 119, 411.
Ad rupes calcarias in Apulia *Ruvo*; ad rupes vulcanicas
in Vesevo; ad arenarias *Sant'Agata* (Balsamo).
5. L. SABULETORUM Schaer. Cfr. Man. IV, 133.
Ad rupes vulcanicas in insula Inarime.
6. L. INSERENA Nyl. Flora 1869, 84. — Exs. Arnd. Jur. 757.
Ad saxa silicea in Apulia *Murge*.

** *Eulecidea* Bagl.

(Man. III, 227; IV, 134)

7. L. PSOROMOIDES Bagl. Cfr. Man. IV, l. c.
Ad rupes vulcanicas *Solfatara*.
8. L. PLATYCARPA Ach. Cfr. Man. IV, l. c.
Aa rupes calcarias *Gransasso*.
9. L. SOREDIZA Nyl., Flora 1873, 72; Arnd. Fr. Jur., Flora 1884,
163. — Exs. Arnd. Jur. 807, 1008.
Ad rupes *Sant'Agata di Massa* (Balsamo); in Vesevo,
et *Solfatara*; in insula *Linosa* (Solla).
10. L. LATYPEA Ach. Meth. Suppl. 10; Nyl. Scand. 217; Fr. (Th.).
Scand. 543. — L. *latypiza* Nyl. Flora 1873, 201; 1881,
187. — Exs. Schaer. LH. 193; Rbh. L. E. 722; Anzi
L. m. r. 268; Erb. cr. it. I, 686; Lojka L. Hng. 67.
Ad rupes calcarias in Apulia *Murge*.

11. L. CRUSTULATA Ach.

var. *meiospora* Nyl. Scand. 225. — Exs. Rbh. L. E. 81.
Ad rupes vulcanicas *Solfatara*.

Gen. XLIV. *Diplotomma* Fw.

(Man. III, 228; IV, 135)

* *Eudiplotomma*.

(Man. III et IV, l. c.)

1. DIPILOTOMMA POPULORUM Mass. Cfr. Man. IV, l. c.

Ad morum albam *Massa* (Balsamo).

2. D. ALBO-ATRUM Hffm. Cfr. Man. IV, 135. — Exs. Rbh. L. E. 489.

var. *epipollum* Ach. — Exs. Rbh. L. E. 99, 755; Mass.
L. I. 396.

Ad rupes basalticas in oris *Licola*.

var. *ambiguum* Ach. Univ. 161. — Arnold, L. Fr.
Jur. 196.

Ad rupes calcareo-siliceas in Apulia *Murge*.** *Rhizocarpon* Rmd.

(Man. III, 229; IV, 135)

3. D. ATRO-ALBUM Ach. Cfr. Man. IV, l. c. — Exs. Lojka L. Hng. 142; Arnd. Jur. 635, 851.

Ad rupes vulcanicas in insula *Inarime*.4. D. PETRAEUM Wlf. var. *soreumaticum* Fw. Krb. Prg. 231.Ad rupes in oris *Licola*.

5. D. DISTINCTUM Th. Fr. in Falk. Bleck. p. 16; Scand. 625.

Arnd., Flora, 1884, 200. — Exs. Arnd. Jur. 635.

Ad rupes arenarias in Lucania *Castello di Lagopesole*.Gen. XLV. *Buellia* DNrs.

(Man. III, 229; IV, 136)

1. BUELLIA PARASEMA Ach.

var. *rugulosa* Ach. Cfr. Man. IV, 33. — Exs. Rbh. L.
E. 934.

- Ad truncos prope Neapolim (Hrb. Gasparrini); in montibus Stabianis *Faito* (Savastano).
2. B. MARITIMA Bagl. var. *dispersa* Mass. — B. dispersa Mass. Sched. crit. 150; Cfr. Man. II, 16. — Exs. Mass. L. I. 360. Ad rupes basalticas in oris *Licola*.
3. B. ATHALLINA (Naeg.) Arnd. Flora 1874, 102; 1882, 143; 1884, 193. — Exs. Arnd. Jur. 228. Ad rupes calcarias in Apulia *Murge*.

Gen. XLVI. **Diploicea** Mass.

(Man. I, 31)

1. DIPLOICEA CANESCENS Dcks. Cfr. Man. IV, 106. Ad truncos in Lucania et prov. *Campobasso* (Hrb. Gasparrini); *Resina* (Hrb. Briganti).
2. D. EPIGAEA (Pers.) Krb. Syst. 175. — Lecideae sp. Schaer. En. 103. — Exs. Schaer. LH. 299, 300; Rbh. L. E. 343. Ad tofos in insulis *Petagne* prope Brundisium; ad rupes in insula *Ltnosa* (Solla).

Fam. IX. GRAPHIDEAE *Eschw.*

(Man. III, 231; IV, 137)

Gen. XLVII. **Opegrapha** *Hmb.*

(Man. I, 50; II, 230; III, 231; IV, 137)

1. OPEGRAPHA ATRA Pers. Cfr. Man. I, 35. — Exs. Schaer. LH. 516; Rbh. L. E. 34, 164, 973; Erb. cr. it. I. 203. Ad cortices prope Neapolim (Hrb. Gasparrini); ad corticem *Punicae Granati* in R. Hort. bot. neapolit. (Cesati). var. *phoenicicola* Jatt. Rend. dell'Ac. delle Sc. di Napoli (1855), 7.

Thallus pulverulentus, effusus, albus. Apothecia exilissima, stellata; primitus dispersa, ac dein congregata, maculas atras orbiculatas majores mentientia. Sporae in ascis ventricosas octonae, fusiformes, diam. 6-7plo longiores, hyalinae vel viridulae, 4-6 - loculares.

- Ad *Phoenicis* petiolum in R. Hort. bot. neapolitano (Cesati).
2. O. BULLATA Pers. Cfr. Man. IV, 138.
Ad cortices prope Neapolim (Hrb. Gasparrini); in R. Hort. bot. neap. (Cesati).
3. O. VARIA Pers. Cfr. Man. I-IV, l. c.
var. *pulicaris* Fr. Cfr. Man. IV, 138. — Exs. Arnold, Jur. 313.
Ad truncos prope Neapolim (Hrb. Gasparrini).
var. *notha* Ach. Cfr. Man. IV, 230.
f. *lichenoides* Schaer. En. 156. — O. *notha* var. *rimalis* Ach. Syn. 71. — Exs. Schaer. L. H. 283; Rbh. L. E. 163, 533.
Ad truncos prope Neapolim (Hrb. Gasparrini); ad *Quercus Suberis* truncum in R. Hort. bot. neap. (Cesati).
f. *cupressicota* Bagl. Cfr. Man. II, l. c.
Ad *Casuarinas* in R. Hort. bot. neapolit. (Cesati).
4. O. HERPETICA Ach. Cfr. Man. II, 230. — Exs. Rbh. L. E. 443, 583, 785.
Ad corticem *Punicae Granati* in R. Hort. bot. neapolit. (Cesati).
5. O. MOUGEOTII Mass. Cfr. Man. III, 232.
Ad rupes calcarias *Licola*.
6. O. GYROCARPA Fw.
var. *arenaria* Krb. Prg. 251. — *Opegrapha rupestris* Fr. L. E. 364; *Opegrapha saxatilis*; *tesserata* Schaer. En. 158.
Ad rupes prope rudera Paesti.

Gen. XLVIII. **Graphis** Ads.

(Man. I, 30)

1. GRAPHIS SCRIPTA Ach. Cfr. Man. I, 30.
var. *pulverulenta* Pers. Krb. Syst. 287. — Exs. Schaer. LH. 89; Rbh. L. E. 173.
Ad cortices prope Neapolim (Hrb. Gasparrini).
var. *serpentina* Ach. Krb. Syst. l. c. — *Graphis serpentina* Beltr. Bass. 272; *Graphis Iuglandis* Mass. Mem. 108. — Exs. Schaer. LH. 91; Rbh. L. E. 584.
Ad cortices prope Neapolim (Hrb. Gasparrini).

Gen. XLIX. **Arthonia** Ach.

(Man. I, 51; II, 231; III, 233; IV, 138)

1. **ARTHONIA VULGARIS** Schaer.*α astroidea* Ach. Cfr. Man. I, 51. — Exs. Arnd. Jur. 440.

Ad cortices in R. Hort. bot. neapolit. (Cesati).

β radiata Pers. Cfr. Man. IV, 233.Ad corticem *Magnoliae grandiflorae* in R. Hort. bot. neapolit. (Cesati).2. **A. LILACINA** (Ach.) Krb. Prg. 269. — Lecideae sp. Ach. Meth. 34; *Pyrenotheca stictica* * *lecidina* Fr. L. E. 453.Ad *Phoenixis* petiolum in R. Hort. bot. neapolitano (Cesati).3. **A. LURIDA** Ach. Schaer. En. 249; Anzi Ctg. 988; Mass. Mem. 114. — *Coniangii* sp. Krb. Syst. 298; *Coniangium vulgare* Fr. L. E. 278. — Exs. Schaer. LH. 17; Rbh. L. E. 402, 473.Ad juniperos *Licola*.*Fam. X. VERRUCARIEAE* Fr.

(Man. IV, 139 emend.)

*Sub-Fam. I. Endocarpaceae.*Gen. L. **Endocarpon** Edw.

(Man. I, 33; III, 211; IV, 139)

1. **ENDOCARPON MINIATUM** Ach.var. *papillosum* Anzi Ctg. 102. — End. *Mulinsii* in Rbh. L. E. 36.

Ad rupes calcarias in Lucania (Hrb. Gasparrini).

Gen. LI. **Endopyrenium** Fw.

(Man. II, 33; III, 211; IV, 139)

1. **ENDOPYRENIUM RUFESCENS** Mass. Cfr. Man. IV, 139. — Exs. Mass. L. I. 188; Rbh. L. E. 401.

Ad rupes calcarias et ad terram in Apulia *Ruvo*; ad terram prope Neapolim (Hrb. Gasparrini).

2. E. TRACHYTICUM (Hatzlinzcki) Krb. Prg. 305. — Exs. Rbh. L. E. 541.

Ad rupes et tofos calcarios in Apulia *Ruvo*, *Gravina*.

3. E. MICHELII Mass. Cfr. Man. II, 33. — Exs. Schaer. L. H. 115, 464.

Ad terram in Lucania (Hrb. Gasparrini).

Sub-Fam. II. Verrucariaceae.

Gen. LII. **Verrucaria** DC.

(Man. I, 52; II, 234; III, 236; IV, 139)

1. VERRUCARIA CONTROVERSA Mass. Cfr. Man. IV, 139. — Exs. Mass. L. I. 21, 195; Arnd. Jur. 170.

Ad muros in R. Hort. bot. neapolit. (Cesati).

2. V. TRISTIS Krph. Flora 1857, n° 24. — *Verrucaria diffracta* Anzi Ctg. 110. — Exs. Arnd. Jur. 364, 608, 898; Lojka L. Hung. 11.

Ad rupes calcarias in Apulia *Murge*.

3. V. MACROSTOMA (Duf.) Krb. Syst. 343. — Lithoiceae sp. Mass. Mem. 145. — Exs. Mass. L. I. 194.

Ad muros in R. Hort. bot. neapolit. (Cesati); ad tofos calcarios in Apulia *Gravina*, alioque.

4. V. VERONENSIS Mass. Ric. 175. — Exs. Mass. L. I. 8.

Ad muros in R. Hort. bot. neapolit. (Cesati).

5. V. CATALEPTA Schaer. En. 211; Krb. Prg. 369. — *V. alutacea* Krb. Syst. 342. — Exs. Schaer. LH. 284; Arnd. Jur. 1068.

Ad rupes prope Paestum.

6. V. VIRIDULA Schrad. Cfr. Man. II, 21. — Exs. Rbh. L. E. 875; Mass. L. I. 209; Arnd. Jur. 365, 897.

Ad tofos in R. Hort. bot. neapolit. (Cesati).

Obs. Locum in Man. II, l. c. notatum ut supra est corrigendum.

7. V. DOLOMITICA (Mass.) Krb. Prg. 362. — Amphoridii sp. Mass. Sym. 80; Beltr. Bass. 224.

var. *faveolata* Flk. — Exs. Arnd. Jur. 177.

Ad rupes calcarias in Apulia *Ruvo*.

8. V. DOLOSA Hepp. Arnd. Flora 1882, 141. — Exs. Arnd. Jur. 307.
Sporae oblongae 0,014-15 mm. lg.; 0,004 mm. lat. —
Arnd. L. Fr. Jur. 255.
Ad rupes vulcanicas *Solfatara*.
Obs. Ad hanc pertinet species in Man. IV, sub nomine
Verr. papillosa Ach. enumerata. Cfr. Arnold, Flora
1884, 255.
9. V. RUPESTRIS Schrad.
var. *calciseda* Schaer. Man. III, 236. — Exs. Arnd. Jur.
197, 309, 310, 311, 312.
Ad lapillos calcarios in R. Hort. bot. neapolitano (Cesati).
10. V. MURALIS Ach. Cfr. Man. III, 237. — Exs. Rbh. L. E. 408;
Arnd. Jur. 174.
Ad muros in R. Hort. bot. neapolitano (Cesati).

Gen. LIII. **Pyrenula** Ach.

(Man. I, 53; III, 236; IV, 140).

I. PYRENULA NITIDA Schrad.

- var. *nitidella* Schaer. Cfr. Man. IV, 140. — Exs. Rbh.
L. E. 86, 451.
Ad cortices in R. Hort. bot. neapolitano (Cesati).

Gen. LIV. **Sagedia** Ach.

(Man. I, 37; II, 20)

1. SAGEDIA AENEA Wallr. Cfr. Man. II, 21. — Exs. Schaer.
LH. 525.
Ad cortices in R. Hort. bot. neapolitano (Cesati).

Gen. LV. **Arthopyrenia** Mass.

(Man. I, 38; II, 22)

1. ARTHOPYRENIA ANALEPTA (Ach.) Krb. Cfr. Man. II, 22. — Exs.
Schaer. LH. 645; Rbh. L. E. 971; Mass. L. I. 185-
186; Arnd. Jur. 519.
Ad corticem *Magnoliae grandiflorae* in R. Hort. bot. nea-
politano (Cesati).

Gen. LVI. **Acrocordia** Mass.

(Man. I, 58; II, 50; III, 235)

1. ACROCORDIA MACROSPORA Mass. Cfr. Man. III, 235.

Ad rupes basalticas in oris *Licola*.

2. A. LIGUSTICA Mass. Symm. 83.

var. *purpurascens*. — Thallus eleganter areolatus, erythrogonimicus.Ad rupes basalticas *Licola*.Gen. LVII. **Polyblastia** Mass.

(Man. III, 234)

1. P. RUIFRAGA Mass. Symm. 100.

Ad tofos prope rudera Paesti.

Gen. LVIII. **Thelidium** Mass.

(Man. III, 235)

1. THELIDIUM CRASSUM Mass. Ric. 174. —
- Thelidium decipiens*

Krpplh. Lich. Bayr. 246; Thel. Hochstetteri Krb. Syst.

355; Amphoridium uberinum Mass. Symm. 78. — Exs.

Arnd. Jur. 30.

Ad tofos prope rudera Paesti.

2. T. DIABOLI Mass.

var. *aeneovinosum* (Anzi) Mass. Symm. 107. — Exs.

Arnd. Jur. 952.

Ad rupes basalticas *Licola*.

3. T. COERULESCENS n. sp.

Thallus effusus, subfarinosus, maculiformis, coeruleus. Apothecia primitus omnino immersa, dein prominentia, ostiolo tandem irregulariter protruso, aterrimo. Paraphyses articulatae, ramosae. Sporae in ascis saccatis, ventricosis, 6-nae, magnae, ellipsoideo-cymbiformes, tetrablastae, uno apice latiores, diam. medio fere 4-plo longiores, hyalinae.

Ad rupes calcarias in Apulia Ruvo.

Fam. XI. COLLEMEAE.

(Man. III, 238; IV, 141)

Sub-Fam. I. *Collemaceae* Fr.

(Man. III et IV, l. c.)

Gen. LIX. **Lecothecium** Trev.

(Man. II, 53; III, 241; IV, 143)

1. LECOTHECIUM CORALLINOIDES Hffm. Cfr. Man. IV, 143.
Ad rupes et ad terram prope rudera Paesti.

Gen. LX. **Synechoblastus** Trev.

(Man. I, 56; II, 236; III, 239; IV, 142)

1. SYNECHOBLASTUS VESPERTILIO Lgthf. Cfr. Man. IV, l. c.
Ad truncos fagorum in montibus Stabianis *Faito* (Savastano); prope Neapolim, et prov. *Avellino* (Hrb. Gasparrini).
2. S. RUGINOSUS Duf. Cfr. Man. IV, 142. — *Collema ruginosum* Schaer. En. 251; *Leptogium chloromelum* Nyl. Syn. 128.
Ad truncos in R. Horto bot. neapolitano (Cesati).
3. S. AGGREGATUS Fr. Cfr. Man. II, 23. — Exs. Schaer. LH. 410.
Ad truncos quercuum in Apulia *Ruvo*.
4. S. MULTIPARTITUS (Sm.) Krb. Prg. 421. — *Collematis* sp. Schaer. En. 258; *Lethagrium turgidum* Mass. Sched. 180; *Synechoblastus turgidus* Krb. Syst. 415; S. Mülleri Hepp. Anzi Ctg. 4. — Exs. Mass. L. I. 344; Schaer. L. H. 433; Rbh. L. E. 256.
Ad rupes calcarias in Apulia *Ruvo*.
5. S. CONGLOMERATUS Hffm. Cfr. Man. I, 39. — Exs. Schaer. L. H. 415, 499; Rbh. L. E. 254, 920; Mass. L. I. 112.
Ad truncos in Hort. bot. neapolitano (Cesati).
6. S. FLACCIDUS Ach. Cfr. Man. II, 23. — Exs. Rbh. L. E. 129; Arnd. Jur. 617.
Ad rupes *Caserta*, Neapoli (Hrb. Gasparrini).

Gen. LXI. **Leptogium** Fr.

(Man. I, 67; III, 240; IV, 142)

1. LEPTOGIUM CYANESCENS Schaer. Cfr. Man. III, 240.
Ad muscos Panormi (Hrb. Gasparrini).
2. L. LACERUM Ach. Cfr. Man. IV, 142. — Exs. Rbh. L. E. 74, 127.
Ad muscos prope Neapolim (Hrb. Gasparrini).

Gen. LXII. **Collema** Hffm.

(Man. I, 55; II, 236; III, 238; IV, 141)

1. COLLEMA LIMOSUM Ach. Cfr. Man. IV, 142. — Exs. Arnd. Jur. 155.
Ad terram in R. Horto bot. neapolit. (Cesati).
2. C. PULPOSUM Berh. Cfr. Man. IV, 141.
Ad terram muscosam prope Neapolim (Hrb. Gasparrini).
var. *granulatum* (Sw.) Krb. Syst. 405. — Collema pulposum, α vulgare, granulatum Schaer. En. 259. — Exs. Schaer. LH. 429; Mass. L. I. 343; Rbh. L. E. 678.
Ad muros et terram muscosam in R. Hort. bot. neapolit. (Cesati); in Apulia.
3. C. GRANOSUM Wlf. Cfr. Man. IV, 142. — Exs. Rbh. L. E. 354, 556; Mass. L. I. 215; Arnd. Jur. 867.
Ad terram muscosam in Lucania (Hrb. Gasparrini).
4. C. FURVUM Wlf. Cfr. Man. IV, 142. — Exs. Rbh. L. E. 126; Arnd. Jur. 336.
Ad terram et rupes muscosas in Lucania (Hrb. Gasparrini).
5. C. TENAX Sw. Cfr. Man. III, l. c. — Exs. Schaer. L. H. 427; Rbh. L. E. 588.
Ad muscos in Lucania (Hrb. Gasparrini).
6. C. CHEILEUM Ach. Cfr. Man. IV, 142. — Exs. Schaer. LH. 426; Arnd. Jur. 91.
Ad rupes et terram muscosam in Lucania (Hrb. Gasparrini).
var. *brutium* Jatt. Rev. Lich. Gasp. Rivista degli Aspiranti naturalisti, Nap. 1885, anno I, fasc. 1.

Thallus membranaceus, microphyllinus, imbricato-lobatus, dilute olivaceus; lobulis rotundatis, integerrimis, explanatis, adpressis, periphaericis in orbem dispositis. Apothecia parvula, centralia, immersa, disco dilute rufo, margine thalino, attenuato, crenulato. Paraphyses capillares, articulatae. Sporae in ascis elongato-clavatis 4-6nae, majusculae, ellipsoideae, diam. $2\frac{1}{2}$ - $3\frac{1}{2}$ plo longiores, constanter tetrablastae, e hyalino subviridescentes.

Ad terram muscosam in Calabria (Hrb. Gasparrini).

Obs. A forma typica *Collematis cheilei* Ach. thallo membranaceo, lobulis adpressis, rotundatis, explanatis, apotheciis minoribus immersis, disco dilute rufo, differt.

7. C. GLAUDESCENS Hffm. Cfr. Man. I, 39. — Exs. Schaer. LH. 430.

Ad terram muscosam *Palermo* (Hrb. Gasparrini).

8. C. CRISTATUM L. Cfr. Man. III, 239. — Exs. Schaer. LH. 417;

Rbh. L. E. 252; Mass. L. I. 340.

Ad terram in Lucania (Hrb. Gasparrini).

9. C. MULTIFIDUM Scop. Cfr. Man. III, 238.

var. *complicatum* Schl. Cfr. Man. III, 239. — Exs. Rbh. L. E. 890; Mass. L. I. 345.

Ad terram muscosam in Lucania (Hrb. Gasparrini).

var. *Jacobeaeifolium* Schl. Cfr. Man. III, l. c. — Exs. Rbh. L. E. 677.

Cum praecedente in Lucania (Hrb. Gasparrini).

10. C. PALMATUM Schaer. En. 254; Krb. Prg. 414. — Exs. Schaer.

LH. 650, 738; Arnd. Jur. 219.

Ad rupes prope Paestum.

Sub-Fam. II. Omphalariaceae.

(Man. III, 241)

Gen. LXIII. **Thyrea** Mass.

1. THYREA DECIPIENS Mass. Symm. 61; Krb. Prg. 431. — Colle-

matis sp. Nyl. Syn. 102. — Exs. Arnd. Jur. 158.

Ad rupes calcarias in Apulia *Bosco di Ruvo*.