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Lichenes Helvetici
eorumque stationes et distributio.

Scripsit

Ernestus Stizenberger,

Med. Dr.

Enumeratio systematica.*

CLASSIS LICHENUM.

Fam. I. — EPHEBACEI.

Trib. I. — SIROSIPHEI.

I. — Sirosiphon Kütz.

1. **S. saxicola** Naeg. in Kütz. *Spec. Alg.* p. 316, Nyl. *Port Nat.* p. 3.
Ad saxa prope Zürich (Naegeli).
2. **S. alpinus** Kütz. *Spec. Alg.* p. 316, Nyl. *Lapp.* p. 103.
Inter muscos in alpibus.
3. **S. ocellatus** (Dillw. t. 81) Kütz. *Spec. Alg.* p. 317, Schw. *Krypt.* 440.
In turfosis paludosis prope Konstanz (Stizenberger) et
in valle Engadin (Brügger).
4. **S. Crameri** Brügg. in *Bündn. Jahresb.* 1861/62 p. 267.
In turfosis vallis Engadin superioris (Brügger).

* Introductio et appendices anno proximo e prelo prodibunt.

(Sirosiphon)

5. **S. rugulosus** Kütz. *Spec. Alg.* p. 317.
Ad rupes humiditas prope Zürich (Naegeli).
6. **S. vestitus** Naeg. in Kütz. *Spec. Alg.* p. 318.
Prope Zürich (Naegeli).

II. — **Gonionema** Nyl.

7. **G. velutinum** (Ach. *Syn.* p. 329) Nyl. *Prodr.* p. 16, id. *Syn.* I p. 88, Hepp *Fl. E.* 713, 714.
Ad saxa montis Albula, prope St. Moritz et Pfäfers (Hepp), Stachelberg (Metzler), Guttannen (Schaeerer), supra Locarno (Baglietto), circa Varallo (Baglietto-Carestia).

III. — **Spilonema** Born.

8. **S. paradoxum** Born. in *Mem. Cherb.* 4 p. 226, t. 1, f. 2
Nyl. *Syn.* p. 89, id. *Scand.* p. 23.
Ad saxa siderolithica montis Salève (Müller).

Trib. II. — PYRENOPSEI.

I. — **Euopsis** Nyl.

9. **E. pulvinata** Schaer. *Spic.* p. 123, 193, id. *En.* p. 101 sub *Lecidea*, non *Pyrenopsis pulvinata* Fr. fil. in *Flora* 1866 p. 85.
Ad saxa granitica prope moles glaciales in alpibus: Sustenberg (Hooker), Grimsel et Gasterthal (Schaeerer).

II. — **Pyrenopsis** Nyl.

10. **P. subcooperta** Anzi *An.* p. 5.
Supra *Andraeam petrophilam* ad micoschistum talcosum in monte Sobretta (Anzi).
11. **P. (?) endoxantha** Anzi *An.* p. 5.
Ad pyritas prope Como (Anzi).

12. **P. sanguinea** Anzi *Neos.* p. 1, id. *Lang.* 474.

Ad saxa serpentinae prope Bormio (Anzi).

Vix differt a *P. fuscata* Nyl.

Trib. III. — HOMOPSIDEI.

Subtrib. I. — EPHEBEL.

I. — **Ephebe** (Fr.) Nyl.

13. **E. pubescens** (Ach. *L. U.* p. 610) Fr. *S. O. V.* p. 356, Nyl. *Syn.* I p. 90, Hepp *Fl. E.* 712, *Erb. critt.* 742, *Schw. Krypt.* 575.

Ad rupes roridas in alpihus frequens: circa Wallensee ad rupes Verrucano dictas (Hepp), Sustenberg (Hegetschweiler), St. Moritz (Hepp), in Valle di Sotto agri Bormienses (Anzi), ad saxa erratica montis Salève (Bernet), in Valle Intrasca prope lacum Verbanum (De Notaris), in Valsesia (Baglietto-Carestia).

Subtrib. II. — PHYLLISCOIDEI.

I. — **Phylliscum** Nyl.

14. **P. endocarpoides** Nyl. *Syn.* I p. 136, *Endocarpon phylliscum* Whlbn. in Ach. *Meth. suppl.* p. 25.

Ad rupes graniticas umbrosas circa aquas Masimo in Veltlin (Anzi).

15. * **P. Demangeonii** (Moug.-Mont. in *Ann. sc. nat.* 3, XII p. 291) Nyl. *Syn.* I p. 137, *Erb. critt.* 1245.

In Valsesia (Baglietto-Carestia).

(Pterygium)

Fam. II. — COLLEMACEI.

Trib. I. — LICHINEI.

I. — **Pterygium** Nyl.

16. **P. centrifugum** Nyl. in *Bull. Soc. Bot.* 1854 p. 328, id. *Syn.* I p. 92, Anzi *Lang.* 311.

Ad saxa umbrosa calcis primitivae in Valle di Dentro agri Bormiensis (Anzi), prope Engelberg et Kandersteg (Metzler), in monte Salève et supra Vallon d'Arveran in monte Reculet (Müller).

17. **P. agglutinatum** (Anzi *Lang.* 268) Nyl. *in lit.*

Ad rupes graniticas valde declives humiditas et umbras ab Oleae regione usque in regionem Fagi: Veltlin (Anzi).

18. **P. subradiatum** Nyl. *Prodr.* p. 68 sub *Pannaria*, *Syn. Lecothecium radiosum* Anzi *Man.* p. 4, id. *Lang.* 442, 476.

Frequens in alpibus calcareis sed plerumque sterilis. Fertile supra Bex legit Müller.

Trib. II. — COLLEMEI.

I. — **Synalissa** DR., Nyl.

19. **S. symphorea** (DC. *Fl. Fr.* 2 p. 382) Nyl. *Syn.* I p. 94, Hepp *Fl. E.* 89, Anzi *It. sup.* 1.

Ad rupes calcareas inter squamas *Lecideae luridae* a planitie in regionem alpinam procedens: Lägern prope Baden (Hepp), prope Chur (Killias), Felsberg (Theobald), in agro Bormiensi (Anzi), Salève (Müller), Jura (Chaillet), in monte Fenera supra Borgosesia (Baglietto-Carestia).

20. S. salevensis Müll.-Arg. *Genev.* p. 81.

Ad rupium parietes irroratos montis Salève supra Veyrier (Müller).

II. — Synalissopsis Nyl. ad interim.**2. S. picina** Nyl. (*Prodr.* p. 19) *in lit.*, *Collema pulposum* var. *diffRACTO-areolatum* Schaer *En.* p. 259 p. p.

Supra muscos in Bois de Batie prope Genf (Rome).

III. — Omphalaria DR.-Mnt.**22. O. pulvinata** (Schaer. *Spic.* p. 544) Nyl. *L. P.* 103, id. *Syn.* I p. 99, Schaer. *L. H.* 435, Hepp *Fl. E.* 658, 659, Anzi *Lang.* 290.

Ad saxa calcarea: Baden (Hepp), Oeschenthal (Schae-
rer), Sewen (Hegetschweiler), circa lacus prope
Neuchâtel (Chaillet), Biel et Puschlav, Tresivio,
aquas veteres Bormienses 1500 m. (Anzi), in monte
Fenera supra Borgosesia et prope Riva (Baglietto-
Carestia), in valle Rhodani inter Brieg et Naters
unacum var. *pachyphylla* Müll.-Arg. *Lich. Val.*
p. 9 (Müller).

23. O. Heppii Müll.-Arg. *Genev.* p. 82.

Ad saxa saepius immersa in litore fluminis Arve infra
Mornex et propter ripas fluminis Dranse infra
Bovernier (Müller).

Forte non diversa ab *O. pulvinata*.

24. O. Girardi DR.-Mnt. *Alger.* p. 199, Nyl. *Syn.* p. 99.

In monte Fenera Valsesia (Baglietto-Carestia).

25. O. corallodes (Mass. in *Flora* 1856 p. 213) Nyl. *Syn.* I
p. 101, Anzi *Lang.* 1.

(Omphalaria)

Ad rupes calcareas: Maloja, supra Tresivio et in agro Bormiensi (Anzi), in alpibus Ovago et Rizzolo prope Riva (Baglietto-Carestia).

26. **O. botryosa** (Mass. *Misc.* p. 20) Nyl. *Syn.* I p. 101, Hepp *Fl. E.* 930, Anzi *Lang.* 309.

Ad saxa calcarea: Mornex (Müller), Bormio (Anzi).

27. **O. Notarisii** Mass. *Symm.* p. 58, Anzi *Lang.* 310.

Ad saxa calcarea prope Premadio, Tresivio, Como (Anzi), ad viam inter Aigle et Sepey (Müller).

28. **O. plectopsora** Mass. *Hb.*, Anzi *Lang.* 475.

Ad saxa dolomitica montis Grona (Anzi).

29. **O. decipiens** (Mass. *Framm.* p. 13) Nyl. *in lit.*

Ad calcem prope Bormio (Anzi) et in monte Fenera Valsesiae (Baglietto-Carestia).

IV. — **Collema** Ach.

30. **C. chalazanum** Ach. *L. U.* p. 630, Nyl. *Syn.* p. 104.

Supra terram et muscos prope Riffersweil, Affoltern (Hegetschweiler jr.) et Genf (Müller).

31. **C. Mülleri** (Hepp in Müll.-Arg. *Genev.* p. 84), id. *Fl. E.* 933, *Krypt. Bad.* 661, Rbh. *L. E.* 701.

Super muscos in alveo fluviorum Rheni prope Laufenburg (Leiner) et Arve prope Genf (Müller).

32. **C. sanguinolentum** Krmplh. *Bayr.* p. 278 sub *Physma*.

Ad terram humosam prope Ürzlikon et Zug (Hegetschweiler jr.).

33. **C. myriococum** Ach. *L. U.* p. 638, Nyl. *Syn.* I p. 104.

Supra muscos in alpibus, ad lapides calcareos prope Riffersweil (Hegetschweiler jr.).

34. **C. cyathodes** (Mass. in *Flora* 1856 p. 214) Nyl. *Syn.* I p. 105.

Calcicola in fundo vallis Vogna (Baglietto-Carestia).

35. **C. auriculatum** (Hffm. *D. Fl.* II p. 98) Nyl. *Syn.* I p. 106, Schaer. *L. H.* 432, Hepp *Fl. E.* 648, 649, Anzi *It. sup.* 7, 8 p. p.

Ad rupes praesertim calcareas inter muscos e regione campestri in subalpinam procedens: Riffersweil (Hegetschweiler), Ütliberg (Hepp), Goldau, Schwyz, Brunnen, Mythen (Harz), Rigi (Hegetschweiler), Ragatz, Maladers (Theobald), Chur (Killias), Veltlin (Anzi), Bremgarten, Lauperswyl, Belpberg, Lengenberg, ad thermas Weissenburgenses, Gurnigel, Stockhorn, Pilatus (Schaerer), Genf (Theobald), Creux du Vent, Locle, Bex (Cornaz), Pontarlier (Millardet), circa Riva et Alagna (Baglietto-Carestia). Var. *dispersum* Krmplh. *Bayr.* p. 19 supra muros sine caemento exstructos prope Molleo (Baglietto-Carestia).

36. * **C. papulosum** Ach. *L. U.* p. 634, Nyl. in *Flora* 1875 p. 302.

Lignicola sterilis in Hb. Ach.

Forsan sit *C. granuliferum* Nyl. in *Flora* 1875 p. 103.

37. **C. ceranoides** (Borr. in *E. B. suppl.* II f. 2704) Nyl. in *Flora* 1878 p. 342.

Muscicola ad saxa calcarea Helvetiae mitioris (Schleicher).

38. **C. flaccidum** Ach. *Syn.* p. 322, Nyl. *Syn.* I p. 107, Schaer. *L. H.* 412, Hepp *Fl. E.* 651, Anzi *It. sup.* 3, *Erb. critt.* 1244.

Locis umbrosis ad saxa, rarius ad arborum truncos e regione campestri in alpinam ascendens: Zürich (Hepp), Schwyz (Harz), Riffersweil, Belpberg, Gasterthal, Tête noire, Bois de Göre, supra Liddes in Valisia inferiore (Schaerer), Chur, Roffla et Tarasp (Killias), Mayenfeld, Luziensteig, Kal-

(Collema)

feuserthal et circa m. Bernina (Theobald), in meridiano fastigio alpium Rhaeticarum (Anzi), Locarno (Daldini), in Valsesia (Baglietto-Carestia).

39. **C. furvum** Ach. *L. U.* p. 650, *Nyl. Syn.* I p. 107, Schaer. *L. H.* 413, 414, Hepp *Fl. E.* 925, 414?

Ad saxa, muros et arbores.

40. **C. melaenum** Ach. *L. U.* p. 636, *Nyl. Scand.* p. 29, Schaer. *L. H.* 418—420, 422, Hepp *Fl. E.* 917, 918, Anzi *Lang.* 291, Rbh. *L. E.* 219.

Ad saxa calcarea praesertim aprica frequens. *F. terrestre* Arn. *Tir.* XI p. 18 in summo Mettelhorn (Kündig).

Ad *C. melaenum* etiam *C. undulatum* Ach. *Syn.* p. 316 ducendum est.

41. **C. polycarpon** (Schaer. *Spic.* p. 532, *Nyl. Syn.* I p. 109) Krb. *Pg.* p. 417, *Nyl.* in *Norrl. Kar.* p. 7, Schaer. *L. H.* 421, Hepp *Fl. E.* 919, Anzi *Lang.* 4.

Ad saxa calcarea in alpes ascendens.

42. **C. cristatum** (L. *Spec.* p. 1610, Hffm. *D. Fl.* II p. 101) *Nyl.* in *Lamy Cat.* p. 3, Schaer. *L. H.* 417, Hepp *Fl. E.* 213, Anzi *It. sup.* 6.

Ad rupes calcareas muscosas montium et alpium.

43. **C. pulposum** Ach. *Syn.* p. 311, *Nyl. Scand.* p. 30, Schaer. *L. H.* 428, Hepp *Fl. E.* 417, Anzi *Lang.* 497a.

Supra muscos et terram sabulosam, ad saxa et moenia calcarea. Var. *granulatum* (Ach. *Syn.* p. 312) Schaer. *Spic.* p. 538, id. *L. H.* 429, Hepp *Fl. E.* 418, *Schw. Krypt.* 273, Anzi *Lang.* 497b, Rbh. *L. E.* 678 iisdem locis. Var. *hydrocharum* (Ach. *L. U.* p. 643) *Nyl. Scand.* p. 30, Schaer. *L. H.* 430, Anzi *Lang.* 2 ad terram prope Bern (Schae-
rer), in montibus prope Como, Chiavenna et in val-

libus Furva et Zebrù (Anzi). Var. *diffRACTO-areo-*
latum Schaer. *Spic.* p. 539, id. *L. H.* 431 ad terram
et saxa prope Fuly (Schaerer) et Weissenstein in
monte Albula (Hegetschweiler).

44. **C. tenax** Ach. *L. U.* p. 635, Nyl. in Lamy *Cat.* p. 4,
Hepp *Fl. E.* 87, 88?, Anzi *Lang.* 3.

Ad terram, muros, saxa et truncos muscosos arborum.

45. **C. intestiniforme** Schaer. *Spic.* p. 542, id. *En.* p. 258.

Ad saxa calcarea circa Neuchâtel (Chaillet).

46. **C. limosum** Ach. *L. U.* p. 629, Nyl. *Syn.* I p. 110.

Ad terram „im Sihlwald“ (Hegetschweiler jr.).

47. **C. cheileum** Ach. *L. U.* p. 630, Nyl. *Scand.* p. 31,
Schaer. *L. H.* 425 (*nudum*), Hepp *Fl. E.* 923.

Supra muros, lapides arenaceos et terram in regioni-
bus calcareis recentioris formationis: Zürich, Lie-
stal (Hepp), Albis, Bern, Belp, Vevay (Schaerer),
Como (Anzi), Genf (Müller).

48. **C. verruciforme** (Ach. *L. U.* p. 650) Nyl. *Prodr.* p. 23,
Schaer. *L. H.* 416 p. p., Hepp *Fl. E.* 926.

Ad corticem arborum prope Zürich (Hepp), Riffers-
weil (Hegetschweiler), Bern (Schaerer).

49. **C. stygium** Del. *Hb.*, Schaer. *Spic.* p. 544, Nyl. in
Flora 1872 p. 554, Schaer. *L. H.* 434.

Ad saxa calcarea circa lacum Biennensem (Schaerer).

50. **C. conglomeratum** Hffm. *D. Fl.* II p. 102, Nyl. *Syn.* I
p. 115, Schaer. *L. H.* 415, Hepp *Fl. E.* 650, *Schw.*
Krypt. 274.

Ad truncos arborum prope urbes et in ambulacris.

51. **C. verruculosum** Hepp in Müll.-Arg. *Genev.* p. 86, id.
Fl. E. 416, Anzi *It. sup.* 5.

Frequens ad corticem Juglandis prope Chur (Hepp),

(Collema)

Fraxini in valle di Tartano et *Aceris campestris* prope Como (Anzi), Salicis prope Genf (Müller), Fraxini et Mori in Valsesia (Baglietto-Carestia).

52. C. callopisma Mass. *Misc.* p. 23, *Nyl. Syn.* I p. 113.

Ad rupes calcareas siccas in pede montis Salève (Müller).

53. C. nigrescens Ach. *L. U.* p. 646, *Nyl. Syn.* I p. 114, Schaer. *L. H.* 410, Hepp *Fl. E.* 216, Anzi *It. sup.* 4, *Schw. Krypt.* 275.

Ad arborum truncos: Ütliberg (Hepp), Axenberg (Gisler), circa lacum Verbanum (De Notaris), Dombresson (Mortier), Neuenburg et Bex (Thomas), Genf (Reuter, Müller) circa Como (Anzi), in Valsesia (Baglietto-Carestia).

54. C. aggregatum (Ach. *L. U.* p. 648) *Nyl. Alger.* p. 318, id. *Syn.* I p. 115, Hepp *Fl. E.* 932, Anzi *Lang.* 8, *Erb. critt.* 1097.

Ad truncos arborum a planitie usque ad terminum arboreum: Konstanz (Stizenberger), Valle di Tartano et Val Forcolo prope montem Bernina (Anzi), in valle Vogna superiore (Baglietto-Carestia).

55. C. Laureri Fw. in *Linn.* 1850 p. 161, Schaer. *L. H.* 419 p. p., Hepp *Fl. E.* 931, Anzi *Lang.* 5, *Rbh. L. E.* 130.

Ad saxa montium et alpium: Veltlin, Bormio (Anzi), Stachelberg (Jack), Rigi, Pilatus, Engelberg (Hepp), Felsenegg supra Zug (Hegetschweiler jr.), Urnerboden, Gampeln, Gischen, Oberfeld, Rosstock in ditione Urnensi (Gisler), Salève (Müller), ad muros vinetorum inter Vevay et Villeneuve (Schaerer). *Var. microphyllum* Anzi *Cat.* p. 4 in rupibus terra obtectis: Veltlin et in valle Zebrù (Anzi), in monte Fenera Valsesiae (Baglietto-Carestia).

- 56. C. multipartitum** Sm. *E. Bot.* t. 2582, *Nyl. Syn.* I p. 116, Schaer. *L. H.* 433 p. p., Hepp *Fl. E.* 663, Anzi *Lang.* 7.
Ad saxa: in agro Bormiensi (Anzi), Waldnacht et Isenthal (Gisler), in monte Fenera et in valle Vogna (Baglietto-Carestia), in monte Salève (Müller).
- 57. C. subtorulosum** Nyl. in *lit.*
Ad rupes graniticas inundatas prope Riffersweil (Hegetschweiler jr.) et ad ripas fluminis Arve prope Villetta (Rome).
Thallus pulvinatus, olivaceo-fuscescens, laciniatus laciniis teretibus subtorulosis basi granulose exasperatis, varie divisis, lobis divergentibus. Apothecia nondum visa. Spermogonia adsunt. *C. multipartito* affine.
- 58. C. helveloideum** Ach. *L. U.* p. 641, *Nyl. Syn.* I p. 116.
Ad saxa calcarea: prope lacum Larium (Garovaglio), St. Bernhard (Schaerer), Reculet (Müller).
- 59. C. tetragonoides** Anzi *An.* p. 6.
Supra *Tortulam torulosam* demortuam in valle Fraèle 2000 m. rarissimum (Anzi).

V. — Collemodium Nyl.

- 60. C. plicatile** (Ach. *L. U.* p. 635, *Nyl. Scand.* p. 30) id. in Lamy *Cat.* p. 5, Hepp *Fl. E.* 920, 86 (*minus*).
Ad saxa varia praesertim calcarea: Konstanz (Stizenberger), Zürich (Hepp), prope Amsteg (Hegetschweiler), ad lacum Larium (Schaerer, Anzi), prope St. Moritz (Hepp), Riva (Baglietto-Carestia), Neuchâtel (Chaillet), Genf (Müller).
- 61. * C. fluviatile** (Huds. *Fl. Angl.* p. 534, Ach. *L. U.* p. 636, *Nyl. Syn.* I p. 109).
Ad saxa humida in monte Rigi (Stizenberger).

(Collemodium)

- 62. C. turgidum** (Ach. *Syn.* p. 313, Nyl. *Syn.* I p. 109)
id. in Lamy *Cat.* p. 6, Schaer. *L. H.* 433 p. p., Hepp
Fl. E. 215.

Locis apricis ad saxa calcarea et arenaria: Schaffhausen (Schenk), Zürich, Lägern (Hepp), Schwyz (Harz), Altorf (Gisler), Erstfelden, Pilatus (Hegetschweiler), Bern, Gemmi, Valisia inferior, Ragaz (Schaerer), Luziensteig et Chur (Theobald), Engadin et Albula (Schaerer), Como (Anzi), Genf (Müller), in Valsesia (Baglietto-Carestia).

- 63. C. albo-ciliatum** (Desmaz. in *Ann. sc. nat.* 4, IV p. 132, Nyl. *Scand.* p. 35) id. in Lamy *Cat.* p. 6, Anzi *Lang.* 13.

Inter muscos et Jungermannias ad latera umbrosa rupium graniticarum supra aedem D. Bartholomae in valle di Sotto, raro fructiferum (Anzi), sterile prope Gossau (Hegetschweiler jr.).

VI. — Leptogium Fr.

- 64. L. quadratum** (Lahm in Krb. *Pg.* p. 411, Nyl. *Lapp.* p. 105) id. in Norrl. *Tavast.* p. 170.

Ad corticem *Pyri mali* prope Mettmenstetten (Hegetschweiler jr.) et *Populi pyramidalis* prope Genf (Müller).

- 65. L. tenuissimum** (Dcks. *Crypt.* f. I, 12) Mudd *Man.* p. 46, Nyl. in Norrl. *Kar.* p. 8, *L. spongiosum* Nyl. olim, Schaer. *L. H.* 408, Hepp *Fl. E.* 211, Anzi *Lang.* 412.

Ad terram calcaream supra muscos herbasque exsiccatas: Ütli, St. Moritz (Hepp), circa Bormio (Anzi), Belpberg (Schaerer), circa Neuchâtel (Chaillet).

- 66. L. byssinum** (Hffm. *D. Fl.* II p. 105) Nyl. *Syn.* I p. 120.
Ad terram prope Ürzlikon (Hegetschweiler jr.).

- 67. L. subtile** (Schrad. *Spic.* p. 95) Nyl. *Syn.* I p. 121, Hepp *Fl. E.* 413.

Ad terram argillaceam prope Zürich (Hepp) et Gossau (Hegetschweiler jr.), ad Salicum vetustarum truncos prope Maschwanden (id.), supra muscos ad terram prope Genf (Müller), ad Juglandum truncos prope Varallo (Baglietto-Carestia).

- 68. L. placodiellum** Nyl. in *Flora* 1865 p. 210, *Syn. Collema leptogioides* Anzi *Etr.* 45.

Ad saxa calcarea montis Fenera socia *Lecanorae calcareae* (Baglietto-Carestia), in monte Salève (Müller).

- 69. L. cretaceum** (Sm. *E. Bot.* t. 738) Nyl. *Prodr.* p. 24, id. *Syn.* I p. 120, Anzi *Lang.* 443.

Ad saxa jurassica prope Como (Anzi) et ad lapides calcareos prope Mettmensstetten (Hegetschweiler jr.).

- 70. L. pusillum** Nyl. *Syn.* I p. 121.

Ad saxa humida in sylvis circa Oltenhausen et Gossau (Hegetschweiler jr.).

- 71. L. minutissimum** (Hepp *Fl. E.* 212) *Mass. Mem.* p. 86, Nyl. in *Lamy Cat.* p. 6, Schaer. *L. H.* 498, Anzi *Lang.* 411, *Erb. critt.* 1243.

Supra muscos prope Zürich, St. Moritz (Hepp), in Veltlin et circa Bormio (Anzi), in monte Pilatus (Hegetschweiler jr.), circa Alagna et Riva (Baglietto-Carestia).

- 72. L. muscicola** (Sw. in *Nov. Act. Ups.* 4 p. 248), *Fr. Scan.* p. 293, Nyl. *Syn.* I p. 134, Schaer. *L. H.* 403, Anzi *Lang.* 12.

Inter muscos ad rupes praesertim graniticas in montanis: Rodolo in Veltlin (Anzi), Petit Salève (Müller).

(Leptogium)

73. L. bolacinum (Ach. *Meth.* p. 238) Nyl. in Lamy *Cat.* p. 7.
In Helvetia mitiore (Schleicher).

74. L. microphyllum (Ach. *L. U.* p. 630, Nyl. *Syn.* I p. 113)
id. in Stzb. *Hyperb.* p. 7, Schaer. *L. H.* 411, Hepp
Fl. E. 214, Anzi *It. sup.* 8 B.

Ad cortices arborum prope vias et urbes: Zürich
(Hegetschweiler), Zug (Hegetschweiler jr.), Stachel-
berg (Metzler), Emmenmattschachen (Schaerer),
Veltlin (Anzi), Genf (Preiswerk).

75. L. lacerum (Sw. in *Nov. Act. Ups.* V p. 4) Fr. *Scan.* p. 239,
Nyl. *Scand.* p. 33, Schaer. *L. H.* 404 p. p., Hepp. *Fl. E.*
928, Anzi *Lang.* 11.

In muscosis supra terram et rupes et ad radices ar-
borum, sat alte in montes ascendens.

76. L. lophaeum (Ach. *L. U.* p. 651, Nyl. *Syn.* I p. 122),
Schaer. *L. H.* 407.

Ad terram nudam in sylvis circa Bern et in valle
Gastern (Schaerer).

77. * L. pulvinatum (Hffm. *D. Fl.* II p. 104) Nyl. in *Flora*
1878 p. 345, Schaer. *L. H.* 406, Hepp *Fl. E.* 929.

Ad rupes muscosas prope Zürich (Hepp), Chur, Ber-
gün (Theobald), in fastigio meridiano alpium Rhaeti-
carum (Anzi), in sylvis circa Bern, in valle Gas-
tern et in monte Tête noire (Schaerer), Valdobbia
(Baglietto-Carestia), prope Genf (Müller).

78. L. sinuatum (Huds. *Flor. Angl.* p. 506) Nyl. in Lamy
Cat. p. 7, *Syn. L. scotinum* Nyl. *Syn.* I p. 123 p. p.,
Schaer. *L. H.* 404 (*majus*), 405.

Ad saxa et lapides in muscosis: Schwyz (Harz), Belp-
berg, Gurnigel, in vallibus Greyerz, Mosses et
Bedretto, Châtel St. Denis (Schaerer), in meridiano
fastigio alpium Rhaeticarum (Anzi), Dôle (Müller),

(Leptogium)

circa Riva (Baglietto-Carestia). *F. minus* Nyl. in *lit.* ad terram in fagetis minus densis prope Hausen (Hegetschweiler jr.).

- 79. *L. scotinum*** (Ach. *L. U.* p. 651) Fr. *Scan.* p. 293, Nyl. *Syn.* I p. 123 p. p., Anzi *Lang.* 538.

In alpinis Bormiensibus (Anzi).

- 80. *L. palmatum*** (Huds. *Flor. Angl.* p. 535) Mnt. *Canar.* p. 128, Nyl. *Syn.* I p. 126, Hepp *Fl. E.* 921.

Ad terram calcaream prope Baden (Hepp).

- 81. *L. tremelloides*** (Ach. *L. U.* p. 655) Fr. *Scan.* p. 293, Nyl. *Syn.* I p. 124, Schaer. *L. H.* 409, *Erb. critt.* 1121, Anzi *Lang.* 10.

Supra muscos, terram, saxa et cortices: in montibus Grimsel, Cenere, Salvatore et ad lacum Larium (Schaerer), Veltlin (Anzi) et in valle Intrasca (Baglietto). Var. *cimiciodorum* (Mass. *Mem.* p. 86), *Erb. critt.* 1122 ad Castanearum annosarum truncos in valle Intrasca (Baglietto) et prope Locarno (Daldini). Var. *cyanescens* Ach. *Syn.* p. 326 ad arborum truncos abundans in Helvetia transalpina. Ad *C. tremelloides* teste Nyl. etiam *C. dermatinum* ducendum est.

- 82. *L. myochroum*** (Ehrh. *Pl. cr.* 286) Nyl. in Lamy *Cat.* p. 7, Schaer. *L. H.* 424, 500, Hepp *Fl. E.* 652, Anzi *Lang.* 9, 292, *Erb. critt.* 849, Rbh. *L. E.* 221.

Ad truncos arborum a planitie usque in regionem nivosam ascendens.

- 83. *L. saturninum*** (Sm. in *Transact. Linn. Soc.* I p. 84) Nyl. in *Flora* 1860 p. 545 non id. *Prodr.* p. 26, Schaer. *L. H.* 423, Hepp *Fl. E.* 415, *Schw. Krypt.* 75, Anzi *It. sup.* 2, *Erb. critt.* 428, 1125.

(Leptogium)

Ad truncos arborum e planitie in montes ascendens, coelum mitius praeamans. In ditione Bormiensi ad Fraxinos annosas 1100 m. (Anzi), in monte Salève (Müller), circa Riva, Varallo et in Valsesia superiore (Baglietto-Carestia).

- 84. L. Schraderi** (Bernh. in Schrad. *Journ.* 1799, I p. 22, Nyl. *Alger.* p. 318, id. *Syn.* I p. 133).

Supra terram inter muscos: Maienfeld (Theobald), Genf (Müller).

VII. — Collemopsis Nyl.

- 85. C. Schaereri** (Mass. *Ric.* p. 114) Nyl. in Norrl. *Kar.* p. 9, Anzi *Lang.* 430.

Ad saxa granitica prope Como, ad saxa calcarea prope Bormio (Anzi), Engelberg (Metzler 1864, Nr. 112) et Riffersweil (Hegetschweiler jr.).

- 86. C. riparia** (Arn. in *Flora* 1859 p. 145) Nyl. in *lit.*

In rupibus dolomitibus supra urbem Varese (Anzi).

- 87. C. caesia** Nyl. in *Flora* 1875 p. 7.

Calcicola prope Mornex in monte Salève (Rome).

- 88. C. murorum** Mass. *Framm.* p. 15 sub *Psorotichia*.

Ad caementum murorum prope Chiavenna (Anzi), Locarno (Baglietto) et ad saxa montis Salève (Müller).

- 89. C. Arnoldiana** (Hepp in *lit.*) Nyl. in *Flora* 1874 p. 305.

Ad saxa calcarea montis Salève rarissima (Müller).

- 90. C. Flotowiana** (Hepp *Fl. E.* 92) Nyl. in *Flora* 1874 p. 305.

Supra rupes erraticas et Nagelfluhe in rivulo Sihl prope Zürich (Hepp).

- 91. C. frustulosa** (Anzi *Lang.* 388, id. in *Comm. critt.* II p. 4) Nyl. in *Flora* 1878 p. 241.

(Collemopsis)

Ad saxa calcarea aprica prope Bormio plerumque sterilis (Anzi).

92. **C. leprosa** (Anzi *An.* p. 5) Nyl. in *lit.*

Ad saxa marmorea humida prope Como (Anzi).

93. **C. cleistocarpa** Müll.-Arg. in *Flora* 1872 p. 506 sub *Psorotichia*.

Ad lapides propter ripas fluminis Dranse prope Bovernier (Müller).

94. **C. (Psoropsis) Rehmica** (Mass. *Misc.* p. 23) Nyl. in *lit.*, Hepp *Fl. E.* 420 (teste Nyl.).

Ad lapides arenaceos in litore lacus Tigurini (Hepp).
Psoropsis Nyl. subgenus *Collemopsidis*.

VIII. — **Sarcosagium** Mass.

95. **S. biatorem** Mass. in *Flora* 1856 p. 290, Nyl. *Prodr.* p. 117, Anzi *Lang.* 382.

Supra terram (subiculum solitum) nondum repertum.

Ad lignum cembrinum aqua fontis continenter humectatum in pago Trepalle alpium Rhaeticarum (Anzi).

IX. — **Aphanopsis** Nyl. (n. g.).

96. **A. terrigena** (Ach. *L. U.* p. 181, Nyl. *Scand.* p. 112) id. in *lit.*

Ad terram nudam prope Ürzlikon (Hegetschweiler jr.) et in Valisia (Schleicher teste Ach. l. c.).

(Trachylia)

Fam. III. — LICHENACEI.

Trib. I. — CALICIEI.

I. — **Trachylia** Fr. p. p., Nyl.

97. **T. viridula** (Fr. apud *Ach.* in *V. Ak. H.* 1817 p. 292), Nyl. *Calic.* p. 28, id. *Syn.* I p. 164, id. *Lapp.* p. 179, Schaer. *L. H.* 295.

Ad Abietum annosarum corticem in regionibus alpinis:
Gurnigel (Schaerer).

98. **T. tigillaris** (Pers. in *Ann. Wett.* 2 p. 14), Fr. *Scan.* p. 282, Nyl. *Syn.* I p. 165, Schaer. *L. H.* 451, Hepp *Fl. E.* 159, Rbh. *L. E.* 214, Anzi *It. sup.* 44, *Erb. critt.* 124.

Ad Pinorum corticem et sepimenta lignea locis campestribus et in alpihus: Albula (Brunner), Davos et Scarlthal (Theobald), St. Moritz (Hepp), Bergell et Bormio (Anzi), Riffersweil (Hegetschweiler), Könitz prope Bern, Gurnigel, Stockhorn, Scheideck et Grimsel (Schaerer), Catogne, Grand Muveran supra Bex (Müller), Eggishorn (Metzler), Riva in Valsesia (Carestia). Var. *ecrustacea* Nyl. in *Mus. Fenn.*, id. *Scand.* p. 46, Anzi *Lang.* 426 ad nudos Cembrae ramos in Val Viera alpium Rhaeticarum (Anzi).

99. **T. tympanella** (Ach. *L. U.* p. 233) Fr. *Scan.* p. 282, Nyl. *Syn.* I p. 166, Schaer. *L. H.* 438, Hepp *Fl. E.* 330, *Erb. critt.* 1100, Anzi *It. sup.* 45.

Ad truncos, ramos demortuos et trabes Pinorum in alpihus: in montibus Gurnigel, Stockhorn, Scheideck, Albula (Schaerer), Engadin (Hepp, Theobald), in vallibus di Torto et Viera prope Livigno (Anzi), in Valsesia (Baglietto-Carestia). F. *cembrina* (Ach.

(Trachylia)

L. U. p. 233) *Nyl. Syn.* I p. 166 ad truncos decorticatos *Pini Cembrae* (Schleicher). Var. *ocellata* (Fw. in *Krb. Pg.* p. 285, Hepp *Fl. E.* 331, Anzi *Lang.* 211 ad *Laricum truncos et ligna in alpibus Rhaeticis* (Hepp, Anzi), prope Zermatt (Metzler).

100. **T. stigonella** (Ach. *Meth.* p. 88) Fr. *Scan.* p. 282, *Nyl. Syn.* I p. 167, Hepp *Fl. E.* 332, Rbh. *L. E.* 417.

Supra crustam pulveraceam *Pertusariae coccodis* ad *Quercus et Fagos*: Liestal, St. Moriz, Albula (Hepp).

II. — **Calicium** Ach., *Nyl.*

101. **C. virellum** *Nyl. Calic.* p. 8, id. *Syn.* I p. 145.

„Ad corticem Coniferarum in subalpinis Helvetiarum ut videtur.“ *Nyl. Syn.* l. c.

102. **C. paroicum** Ach. *Meth.* p. 89, *Nyl. Syn.* I p. 145.

Ad rupes regionis montanae et alpinae sterilis: Aschera et Vättis (Theobald), Valsesia (Baglietto-Carestia).

103. **C. disseminatum** (Ach. in *V. Ak. H.* 1817 p. 227), Fr. *L. E.* p. 397, *Nyl. Syn.* I p. 146, Schaer. *L. H.* 503, 504, Anzi *Lang.* 505.

Ad *Abietum truncos* in sylvis horridis vallis di Fraèle (Anzi), Gurnigel (Hegetschweiler, Schaerer).

104. **C. chrysocephalum** Ach. *Meth. suppl.* p. 15, *Nyl. Syn.* p. 146, Hepp *Fl. E.* 329, Anzi *It. sup.* 36, Rbh. *L. E.* 211.

Ad cortices et ligna praesertim *Pini* in sylvis montium et alpium. Var. *filare* Ach. *L. U.* p. 239, *Nyl.* l. c. p. 147, Schaer. *L. H.* 12, Hepp *Fl. E.* 761 (f. *majus*), 762 (f. *minus*), Anzi *It. sup.* 37 iisdem locis. Var. *nudum* Schaer. *Spic.* p. 229 ad truncos decorticatos in monte Gurnigel (Schaerer).

(Calicium)

- 105. C. phaeocephalum** (Turn. in *Act. Soc. Linn.* VII p. 260)
Borr. *L. Br.* p. 145, Nyl. *Syn.* I p. 147.
Ad Quercuum corticem et trabes: in monte Gurten
prope Bern (Schaerer).
- 106. * C. aciculare** (Sm. *E. Bot.* t. 2385) Fr. *S. V. Sc.* p. 119,
Nyl. *Syn.* I p. 148, Hepp *Fl. E.* 328, *Krypt. Bad.* 677.
Ad corticem Quercus: Konstanz (Leiner), Zürich
(Hepp), Rhaetia (Theobald), Genf (Müller).
- 107. C. arenarium** Hampe in *lit.* ad div., Nyl. in Lamy *Cat.*
p. 9, *C. citrinum* (Leight.) Nyl. olim.
Supra thallum *Lecideae lucidae* prope Riva (Bag-
lietto-Carestia).
- 108. C. (Allodium) trichiale** Ach. *L. U.* p. 243, Nyl. *Syn.* I
p. 149, Schaer. *L. H.* 10, 11, Hepp *Fl. E.* 158, 759,
Schw. Krypt. 170, Anzi *It. sup.* 39.
Ad ligna pinea et cortices: Konstanz (Stizenberger),
Zürich (Hepp), Mittenberg prope Chur (Theobald),
Engadin (Hepp), Valle di Tartano, Puschlav, Ro-
dolo, ager Bormiensi (Anzi), Bern, Petersinsel in
lacu Biennensi, Gurnigel, Gemmi, Grimsel (Schaerer),
St. Gotthard (Gisler), Valsesia (Baglietto-Carestia),
circa Genf (Reuter).
- 109. * C. (Allodium) cinereum** Pers. *Ic. et Descr. Fung.* p. 38,
Nyl. (*Syn.* I p. 149 var.) in *lit.*, Schaer. *L. H.* 452.
Ad truncos arborum: Konstanz (Stizenberger), in monte
Stockhorn (Schaerer).
- 110. * C. (Allodium) stemoneum** Ach. (*L. U.* p. 234) in *V.*
Ak. H. 1816 p. 278 t. 8 f. 15, Nyl. (*Syn.* I p. 150) in
Lamy *Cat.* p. 9, Schaer. *L. H.* 13, 249, Hepp *Fl. E.*
760, *Krypt. Bad.* 515, *Schw. Krypt.* 171.
Ad cortices Coniferarum in sylvis campestribus et

(Calicium)

subalpinis: Konstanz (Stizenberger), Zürich (Hepp),
in monte Randen (Schenk), circa Bern (Schaerer),
in agro Bormiensi (Anzi) et Genf (Müller).

11. **C. melanophaeum** Ach. in *V. Ak. H.* 1816 p. 276, Nyl.
(*Syn.* I p. 151) in *Lamy Cat.* p. 10, Schaer. *L. H.* 638,
Anzi *It. sup.* 38.

Ad Pinorum corticem et ligna putrida in regionibus
campestribus et alpinis: circa Riffersweil (Heget-
schweiler), Veltlin (Anzi) et Riva (Baglietto-Ca-
restia). Var. *ferrugineum* (Borr. *L. Br.* p. 136)
Nyl. II. cc., Anzi *It. sup.* 38 ad corticem *Laricis*
europaeae in sylvis umbrosis: Veltlin (Anzi).

12. **C. brunneolum** Ach. in *V. Ak. H.* 1816 p. 279, Nyl.
(*Prodr.* p. 276, id. *Syn.* I p. 251) in *Lamy Cat.* p. 10,
Anzi *It. sup.* 40.

Ad truncos putridos: in montibus Stockhorn, Susten
et Rigi (Schaerer), Veltlin (Anzi), Salève et Dôle
(Müller), ad corticem *Piceae excelsae* in valle d'Otro
(Baglietto-Carestia: sub *flexile* Krb.).

13. **C. hyperellum** Ach. *Meth.* p. 93, Nyl. *Syn.* I p. 152,
Schaer. *L. H.* 241, 242, Hepp *Fl. E.* 333.

Ad arborum cortices inprimis Pinorum, rarius ad
truncos demortuos in regione montana et alpina:
Uri (Gisler), Pilatus (Hepp), Gurnigel, Stockhorn,
Susten (Schaerer), circa Genf (Müller).

14. **C. roscidum** Flk. *D. L.* 42, Nyl. *Syn.* I p. 153, Schaer.
L. H. 244.

Ad Pinos Quercusque in regione campestri et mon-
tana: circa Bern (Schaerer), Konstanz (Stizenberger).

15. ***C. trabinellum** Ach. *Meth.* p. 93 et *suppl.* p. 15, Nyl.
(*Scand.* p. 41) in *lit.*, Schaer. *L. H.* 246, Hepp *Fl. E.*

(Calicium)

334, 335, Rbh. *L. E.* 236, Anzi *It. sup.* 41, 42, *Erb. critt.* 1099.

Ad truncos putridos: Konstanz (Stizenberger), Zürich, Pilatus (Hepp), in montibus Gurnigel et Stockhorn et in Obersimmenthal (Schaerer), Engadin, Splügen et Bündner Oberland (Theobald), Veltlin (Anzi), Stresa (Baglietto), in Valsesia (Carestia), circa Genf (Reuter), circa Neuchâtel (Chaillet).

- 116. C. trachelinum** Ach. in *V. Ak. H.* 1816 p. 272, Nyl. *Syn.* I p. 154, Schaer. *L. H.* 243, Hepp *Fl. E.* 160, 763?, Rbh. *L. E.* 114, *Schw. Krypt.* 270.

Ad cortices et ligna arborum in regione campestri et alpina: Konstanz, Ermatingen (Stizenberger), Schaffhausen (Schenk), Zürich (Hepp), Bern, Pilatus, Gurnigel (Schaerer), Riffersweil (Hegetschweiler), Veltlin (Anzi).

- 117. C. quercinum** Pers. *Tent. disp. Fung. suppl.* p. 59, Nyl. *Syn.* I p. 155, Schaer. *L. H.* 247, 505, Hepp *Fl. E.* 606, Anzi Lang. 204, 213.

Ad cortices et ligna praeprimis Quercus in sylvis campestribus et alpinis: Veltlin, Bormio (Anzi), Haldenstein (Theobald), Zürich (Hepp), Konstanz (Stizenberger), prope Messen, supra Röthenbach, circa Würzbrunnen, in montibus Stockhorn, Gurnigel, Hogant, Kiley, Susten et in Buembachthal (Schaerer), Valsesia (Baglietto-Carestia), Neuchâtel (Chaillet). Var. *lenticulare* (Ach. in *V. Ak. H.* 1816 p. 262) Nyl. l. c. p. 156, Schaer. *L. H.* 8, Hepp *Fl. E.* 336, Anzi Lang. 455, ad ligna varia et cortices: circa Bormio (Anzi), Zürich (Hepp), Bern et in monte Gibeleck (Schaerer), Pilatus (Hegetschweiler), prope Riva (Baglietto-Carestia).

- 118 * **C. curtum** Borr. *L. Brit.* p. 148, *Nyl. Syn.* I p. 156, Schaer. *L. H.* 248, Hepp *Fl. E.* 337, *Schw. Krypt.* 674, Anzi *Lang.* 345.

Ad cortices et truncos Pini decorticatos e regione campestri in alpes ascendens: Ermatingen (Stizenberger), Zürich (Hepp), circa Riffersweil (Hegetschweiler), in montibus Gurnigel et Gemmi (Schaerer), Sisikon, Schattdorf et in Alplerwald (Gisler), Dombresson (Mortier), circa Como, Veltlin et in agro Bormiensi (Anzi), in Valsesia (Baglietto-Carestia), circa Genf et in montibus Jurae (Reuter).

119. **C. pusillum** Flk. *D. L.* 188, *Nyl. Syn.* I p. 157, Hepp *Fl. E.* 338, Anzi *Lang.* 214, id. *It. sup.* 43.

Ad corticem et lignum vetustum Quercuum et Populorum: Zürich (Hepp), in Veltlin et circa Bormio (Anzi), in montibus Gurnigel et Grimsel (Schaerer), circa Genf (Müller). Var. *subparietinum* *Nyl.* in *lit.*, Anzi *Lang.* 215 ad nudos Coniferarum truncos in provincia Sondriensi (Anzi). Var. *parasitaster* Bagl.-Car. *Anacr.* p. 246 ad stipites *Cladoniae deformis* in monte Selle della montata prope Riva (Baglietto-Carestia).

120. * **C. albo-atrum** Flk. *D. L.* 26, *Nyl. Syn.* I p. 157, Schaer. *L. H.* 636, Hepp *Fl. E.* 156, 157, Anzi *Lang.* 425, *Schw. Krypt.* 179.

Ad Quercuum rarius Castanearum et Pinorum corticem: Konstanz (Stizenberger), Zürich (Hepp), Riffersweil (Hegetschweiler), Rhaetia (Theobald), Coinsins (Cornaz), prope Como (Anzi).

121. * **C. triste** Krb. *S. L. G.* p. 308, *Nyl. Syn.* I p. 157, Hepp *Fl. E.* 339.

Ad truncos *Populi nigrae*: Zürich (Hepp).

(Calicium)

- 122. C. parietinum** Ach. in *V. Ak. H.* 1816 p. 260 t. 8 f. 1 a, b, Nyl. *Syn.* I p. 158.

Ad truncos putrescentes in Valsesia (Baglietto-Carestia) et in monte Salève (Müller).

- 123. C. praecedens** Nyl. in *Flora* 1867 p. 470, Anzi *Lang.* 264.

Ad truncum et ramos *Betulae ovatae* in Valle Tellina (Anzi) et ad ramulos *Alni viridis* prope Riva et Alagna (Baglietto-Carestia).

- 124. C. populneum** de Brond., Nyl. *Syn.* I p. 159, Anzi *Lang.* 424.

Ad Populorum truncos locis collinis humidis circa Como (Anzi), ad Ainos in „Schachenwäldle“ et prope Erstfeld (Gisler), ad Populos prope Cham et in monte Albis (Hegetschweiler jr.).

III. — *Stenocybe* Nyl.

- 125. St. major** Nyl. in *Bot. Not.* 1854 p. 84, *Syn. St. euspora* id. in *Zw. Exs.* 71 et in *Syn.* I p. 160, Rbh. *L. E.* 757, 967, Anzi *It. sup.* 47, *Erb. critt.* 1388.

Ad corticem abietinum in sylvis regionum montanae et subalpinae: Schattdorf, Bristenwald et Alplerwald (Gisler), Veltlin (Anzi), Riva et Monte Rosa (Carestia), in Valle Vogna (Baglietto-Carestia).

S. byssacea (Fr.) Nyl. Helvetiae deesse videtur.

IV. — *Coniocybe* Ach., Fr., Nyl.

- 126. C. furfuracea** Ach. in *V. Ak. H.* 1816 p. 288, Nyl. *Syn.* I p. 161, Schaer. *L. H.* 14, Hepp *Fl. E.* 758.

Super denudatas arborum radices fibrosas, terram nudam rupesque ad cavas sylvarum vias in regionibus

(Coniocybe)

campestribus et alpinis: Zürich (Hepp), Schwarzwald prope Chur, Malixer Wald et Pizockel (Theobald), Veltlin (Anzi), Bern, Jura (Schaerer), Vallesia (Baglietto-Carestia), Genf (Müller). Var. *fulva* (L. *Spec.* p. 1655) Fr. *L. E.* p. 382, Nyl. l. c. p. 162, Schaer. *L. H.* 296 ad arborum truncos et terram nudam. Var. *sulfurella* Fr. l. c., Nyl. l. c., Schaer. *L. H.* 639, Hepp *Fl. E.* 154 ad Quercuum et *Populi nigrae* truncos prope Basel (Preisswerk), Zürich (Hepp), Veltlin (Anzi).

127. **C. gracilentata** Ach. in *V. Ak. H.* 1816 p. 289, Nyl. *Syn.* I p. 162, Hepp *Fl. E.* 45.

Ad infimos arborum truncos et ad terram in regionibus campestribus et montanis: Zürich (Hepp), in monte Gurnigel (Schaerer), in agro Bormiensi (Anzi).

128. **C. pallida** (Pers. in *Ust. N. Ann.* I p. 20) Fr. *Sched. crit.* 1 p. 3, Nyl. *Syn.* I p. 163, Schaer. *L. H.* 7, Hepp *Fl. E.* 44, 155, *Krypt. Bad.* 447, Rbh. *L. E.* 696, *Schw. Krypt.* 172.

Ad arborum variarum truncos in regionibus campestribus et montanis: Konstanz (Stizenberger), Zürich (Hepp), Bremgarten (Schaerer), Genf (Müller).

129. **C. hyalinella** Nyl. *Prodr.* p. 33, id. *Syn.* I p. 163, Rbh. *L. E.* 115, *Krypt. Bad.* 675.

Ad corticem *Pyri communis*: Konstanz (Stizenberger).

V. — **Sphinctrina** Fr. p. p., Nyl.

130. **S. turbinata** (Pers. *Tent. disp. Fung. suppl.* p. 59) Fr. *S. V. Sc.* p. 366, Nyl. *Syn.* I p. 142, Schaer. *L. H.* 6, Hepp *Fl. E.* 326, Rbh. *L. E.* 406, *Schw. Krypt.* 168, Anzi *It. sup.* 46.

(Sphinctrina)

Supra thallum *Pertusariae communis*: Zürich et Lie-
stal (Hepp), Bern (Schaerer), Val Malenco (Anzi),
Jura, supra thallum *Urceolariae scruposae* in Alagna
(Baglietto-Carestia sub f. *stipitata*).

131. S. microcephala (Sm. *E. B.* t. 1865) Krb. *Pg.* p. 288,
Vgl. in Norrl. *H. L. F.* 1, Anzi *Lang.* 212.

Ad Larices in Valle Malenco et ad Pinos circa Bormio
(Anzi) et Riffersweil (Hegetschweiler jr.).

132. S. tubaeformis Mass. *Mem.* p. 155.

Supra thallum *Lecanorae elacistae* prope Riva (Carestia).

Trib. II. — SPHAEROPHOREI.

I. — Sphaerophoron Pers.

133. S. compressum Ach. *Meth.* p. 135, Nyl. *Syn.* I p. 170,
Anzi *Lang.* 422.

Supra rupes, terram muscosam et ad infimos Abietum
truncos rarum: in valle di Mello (Anzi).

134. S. coralloides Pers. in *Ust. Ann.* 1 p. 23, Nyl. *Syn.* I
p. 171, Hepp *Fl. E.* 422, Anzi *Lang.* 421, *Erb. critt.* 1428.

Ad arborum truncos et saxa in regionibus praesertim
subalpinis: in valle di Mello (Anzi), in Val Maggia
(Franzoni), in Valle Vogna et circa Alagna Val-
sesiae (Baglietto-Carestia), Contamines (Müller).

135. S. fragile Pers. in *Ust. Ann.* 1 p. 23, Nyl. *Syn.* I
p. 172, Schaer. *L. H.* 15, Rbh. *L. E.* 194 a, Anzi *It.*
sup. 34, *Erb. critt.* 473.

Ad saxa granitica et ad terram summarum alpium,
nonnunquam in regionem campestrum descendens:
in montibus Bristen, Realp, Göschenalp (Gisler),

(Sphaerophoron)

Fibia, Grimsel, Susten, St. Bernhard (Schaerer), Sasso Albo (Killias), Bondera, Culm da Vi et in Veltlin (Theobald), in ditone Bormiensi (Anzi), circa Chiavenna (Tausend), in Monte Rosa (Carestia).

Trib. III. — BAEOMYCEI.

I. — **Gomphillus** Nyl.

- 136. G. calicioides** (Del. in Dub. *Bot. Gall.* p. 636) Nyl. *Prodr.* p. 146, id. *Syn.* I p. 175, Anzi *Lang.* 17, Rbh. *L. E.* 736, *Erb. critt.* 1118.

Supra muscos et Jungermannias prope Chiavenna (Anzi), Locarno (Daldini) et Riva (Carestia).

II. — **Baeomyces** Pers.

- 137. B. rufus** (Huds. *Flor. Angl.* p. 527) DC. *Fl. Fr.* 2 p. 342, Nyl. *Syn.* I p. 176, Schaer. *L. H.* 32, Anzi *It. sup.* 32, 33, *Erb. critt.* 381, *Schw. Krypt.* 165.

Supra terram argillosam locis subumbrosis, rarius ad saxa vel supra ligna putrida in planitie et in alpibus: prope Konstanz (Stizenberger), in valle Gastern, in montibus Gemmi et Gotthard (Schaerer), in alpibus Rhaeticis (Killias, Anzi), in Valsesia (Baglietto-Carestia), circa Genf (Müller), in monte Jura (Cornaz). Var. *sessilis* Nyl. l. c. p. 177, Anzi *Lang.* 423 ad terram in alpibus: Veltlin et circa Bormio (Anzi). Var. *subsquamulosus* Nyl. in *Flora* 1877 p. 462, Hepp *Fl. E.* 480, 481. Supra terram argillosam: Zürich (Hepp), Riffers-

(Baeomyces)

weil (Hegetschweiler), Rossberg (Harz), in alpi-
bus Rhaeticis (Anzi), Onex prope Genf (Reuter).

B. carneus Nyl. in *Flora* 1877 p. 462 (K. + e flav. cinnab.)
in Helvetia deest.

- 138. B. roseus** Pers. in *Ust. Ann.* 1 p. 19, *Nyl. Syn.* I
p. 179, Schaer. *L. H.* 31, Hepp *Fl. E.* 119, *Krypt. Bad.*
24, *Schw. Krypt.* 662, Anzi *It. sup.* 31.

Supra terram nudam sterilem potissime argillaceam
locis umbrosis planitie et alpium: Konstanz (Leiner),
Zürich (Hepp), in alpihus Rhaeticis (Theobald,
Anzi), prope Bern (Fischer), Schaffhausen (Schenk),
Valsesia (Baglietto-Carestia), circa Genf (Reuter,
Müller), in monte Jura (Cornaz).

- 139. B. icmadophyllus** Ach. *Meth.* p. 323, *Nyl. Syn.* I p. 180.

Ad terram prope Como et in alpihus Bormiensibus
sterilis (Anzi), in monte Pilatus (Hepp), in Valisia
(Schleicher) et Valsesia (Baglietto-Carestia).

- 140. B. icmdaophilus** (Ehrh. *Phytogr.* Nr. 40) *Nyl. Prodr.*
p. 35, Schaer. *L. H.* 216, Hepp *Fl. E.* 137, id. *K. Z.*
231, Anzi *It. sup.* 224, *Erb. critt.* 471, *Rbh. L. E.* 209.

Locis udis ad truncos putridos, supra muscos et
terram turfosam, rarius ad saxa e regione cam-
pestri ad summas alpes ascendens: prope Zürich
et in monte Hohenrohne (Hepp), prope Bern, in
vallibus Buembach et Oeschenen, in montibus Gur-
nigel, Scheibe, Stockhorn, Grimsel, St. Gotthard
(Schaerer), in monte Mythen (Harz), circa Rosen-
lauri (Metzler), Wengernalp (Jack), Chur (Killias),
Spontisköpfe et Küblis (Theobald), Veltlin (Anzi),
supra Riva (Carestia).

Trib. IV. — STEREOCAULEI.

I. — **Stereocaulon** Schreb.

141. **S. coralloides** Fr. *L. S.* 118, *Nyl. Syn.* I p. 241, Schaer. *L. H.* 261, Hepp *Fl. E.* 114, Rbh. *L. E.* 210, Anzi *It. sup.* 27, Schw. *Krypt.* 552.

Supra saxa praesertim granitosa in sylvis montanis: Rhaetia (Theobald), Veltlin, Bormio (Anzi), Maderanerthal (Hegetschweiler), Brunnithal, Intschi, Göschenalp (Gisler), Susten, Grimsel, Gasternthal, Lauterbrunnenthal (Schaerer), moles glaciales Rhodani et Riffelhorn (Jack), Riva (Carestia), in saxis erraticis montis Jura (Cornaz).

142. **S. paschale** (L. *Spec.* p. 1153) *Nyl. Syn.* I p. 242.

Inter muscos supra rupes et terram praecipue pineorum in alpinis rarum: in monte Susten (Schaerer) et in valle di Sotto (Anzi). Var. *thyrsoides* (Schaer. *Spic.* p. 277) Rbh. *D. Kr. Fl.* II p. 112 in monte Susten (Schaerer), prope Thonon (Puget).

143. **S. evolutum** Graewe in *Bot. Not.* 1865 p. 181 var. *fastigiatum* (Anzi *Cat.* p. 11) Fr. *fil. Scand.* p. 45, Anzi *Lang.* 16.

Ad rupes perpendiculares graniticas in regione nivosa et glaciale vallis Tellinae (Anzi).

144. **S. tomentosum** Fr. *Sched. crit.* 3 p. 20, *Nyl. Syn.* I p. 243, Schaer. *L. H.* 262.

Supra terram arenosam ad torrentes in alpibus: Susten (Schaerer), Veltlin (Tausend), Bergell (Anzi), Amsteg (Gisler), circa Genf (Reuter). Var. *alpinum* (Laur. in Fr. *L. E.* p. 204) *Nyl.* l. c., *St. alpestre* Fr. *fil.*, Schaer. *L. H.* 263, Hepp *Fl. E.* 303, Rbh. *L. E.* 859, Anzi *It. sup.* 26, Schw.

(Stereocaulon)

Krypt. 51, *Erb. critt.* 736, 1320 ad terram locis rupestribus alpium graniticarum ad 3600 m. progrediens et prope moles glaciales abundanter fructiferum. — Var. *botryosum* (Ach. p. p., Laur. in Fr. l. c.) Nyl. *Scand.* p. 64, Schaer. *L. H.* 264, Anzi *It. sup.* 27, *Erb. critt.* 1320 bis ad terram arenosam alpium editissimarum: in monte Rosatsch et Stätzerhorn (Brügger), in alpibus Bormiensibus (Anzi), Valsesia (Baglietto-Carestia). — Var. *incrustatum* (Flk. *D. L.* 77) Nyl. l. c. p. 65, Hepp *Fl. E.* 301, Schw. *Krypt.* 652, *Erb. critt.* 1319, prope Altdorf (Gisler), in monte St. Gotthard (Hegetschweiler jr.), in valle di Sotto agri Bormiensis (Anzi), in valle Intrasca (De Notaris).

- 145. S. denudatum** Flk. *D. L.* 79, Nyl. *Syn.* I p. 247, Hepp *Fl. E.* 546, Anzi *Lang.* 15.

Supra saxa praesertim granitica in alpinis et subalpinis: Engadin (Theobald), Veltlin (Anzi), Bristen et Erstfelderthal (Gisler), Contamines in Sabaudia (Müller). Var. *pulvinatum* (Schaer. *Spic.* p. 274, 276) Fw. in *Flora* 1836 Beibl. p. 15, Nyl. l. c. in valle Vogna (Baglietto-Carestia).

- 146. S. condensatum** Hffm. *D. Fl.* II p. 130, Anzi *It. sup.* 29.

Ad saxa et terram glareosam alpium juxta glacies aeternas in alpibus Braulio et Zebro (Anzi), prope hospitium in Valdobbia (Baglietto-Carestia) et in summo monte Matterhorn (Weilemann). Var. *cereolinum* (Ach. *Syn.* p. 285 excl. syn. Borr.) Nyl. *Scand.* p. 66, Anzi *It. sup.* 30, *Erb. critt.* 1228 ad saxa granitica et micacea supra lacum Verbanum in monte Rosso (Anzi), prope Locarno (Daldini), in valle Peccia (Schleicher), in Valsesia (Baglietto-Carestia).

II. — Leprocaulon Nyl.

147. **L. nanum** (Ach. *Meth.* p. 315, Nyl. *Syn.* I p. 253) id. in *Flora* 1876 p. 578, Hepp *Fl. E.* 547.

Ad terram et in rupium fissuris circa Riva et Mollia (Baglietto-Carestia), ad lapides in valle Rhodani inter Brieg et Naters (Müller).

Trib. V. — CLADONIEI.

I. — Pycnothelia Ach. p. p., Duf., Nyl.

148. **P. papillaria** (Ehrh. *Beitr.* 2 p. 105) Duf. *Révis. Clad.* p. 5, Nyl. *Lapp.* p. 110, Anzi *Lang.* 503, Anzi *Clad.* 27 A.

Supra terram macram rarissima, a planitie in terminum nivium aeternarum progrediens: in alpihus prov. Sondriensis et agri Bormienses (Anzi), in hospitio montis Simplon (Baglietto), in monte Bernhardin (Hegetschweiler), Valsesia (Baglietto-Carestia). Var. *molariformis* (Hffm. *D. Fl.* II p. 117) Nyl. *Scand.* p. 50, Anzi *Cis.* 27 B circa Como (Anzi).

II. — Cladonia (Hffm.) Nyl.

149. **C. endiviaefolia** (Dicks. *Crypt.* 3 p. 17) Fr. *L. E.* p. 212, Nyl. *Syn.* I p. 189, Schaer. *L. H.* 456, Hepp *Fl. E.* 800.

Ad terram in regionibus campestribus locis aridis sub coelo mitiore: Urdenalp (Theobald), Erosa (Killias), prope Lausanne in litore lacus (Müller), in radice montis Salève (Reuter), prope Mornex (Thomas), Neuchâtel (Cornaz) et in Valisia (Schaerer).

(Cladonia)

- 150. C. alpicornis** (Lightf. *Scot.* p. 872) Flk. *Clad.* p. 23, Nyl. *Syn.* I p. 190, Hepp *Fl. E.* 799, *Krypt. Bad.* 313, Anzi *Lang.* 499, id. *Cis.* 2.

Locis sterilibus apricis regionis campestris: Konstanz (Stizenberger), Foreck (Hepp), Chur (Theobald), Molins, in sylva prope Vetan et in Val Sinestra (Killias), circa Como (Anzi), in alpe Olen supra Alagna (Baglietto-Carestia) et in radice montis Salève (Müller).

- 151. C. pyxidata** (L. *Spec.* p. 1619) Fr. *L. E.* p. 216, Nyl. *Syn.* I p. 192, Schaer. *L. H.* 268, Hepp *Fl. E.* 788, 789, *Schw. Krypt.* 52, *Krypt. Bad.* 696, 857, Rbh. *Clad.* Tab. X, Anzi *Cis.* 3 A.

Sat variabilis, in apricis campestribus et sylvaticis frequens. — Var. *costata* Flk. *Comm.* p. 68, Hepp *Fl. E.* 787, Anzi *Cis.* 3 C ad terram in sylvis et ericetis. — Var. *chlorophaea* (Flk. in *Smmrf. Suppl.* p. 150), Schaer. *L. H.* 266, 267, Anzi *Cis.* 3 D ad sylvarum oras. — Var. *pocillum* (Ach. *Meth.* p. 336) Nyl. l. c. p. 193, Anzi *Cis.* 3 B minus frequens. Adhuc rarior var. *symphycarpa* (Ach. *Syn.* p. 274) Nyl. *Scand.* p. 50, Hepp *Fl. E.* 542, *Erb. critt.* 423, *Schw. Krypt.* 151. Crescit locis aridis sterilibus. — Var. *epiphylla* (Ach. *Meth.* p. 325) Nyl. l. c. p. 50, Schaer. *L. H.* 269 ad oras viarum cavarum circa Bern (Schaerer).

- 152. * C. pityrea** (Flk. in *Berl. Mag.* II p. 282, Ach. *Syn.* p. 254) Nyl. *Scand.* p. 50 p. p., id. in *Flora* 1873 p. 299, Rbh. *Clad.* Tab. X suppl.

Rara in sylvis prope Churwalden (Brügger), ad Trinser See (Theobald), prope Bormio (Anzi), in tectis

(Cladonia)

- stramineis montis Bötzing (Geheeb), in agro Bernensi (Schaerer), in monte Dôle (Müller).
- 153. * Cl. leptophylla** Flk. *Clad.* p. 19, Nyl. *Syn.* I p. 193, Hepp *Fl. E.* 543, Rbh. *Clad.* Tab. XI suppl., *Schw. Krypt.* 152, *Krypt. Bad.* 697.
- Supra terram macram praesertim argillosam: Konstanz (Leiner), Zürich (Hepp), Bruggerberg prope Aarau (Geheeb), Pringy (Puget), Valisia (Schleicher).
- 154. C. symphycarpodes** Nyl. in *Flora* 1874 p. 7.
- „Supra terram“ (Nyl. l. c.).
- „Huc pertinet *C. neglecta* f. *symphycarpa* Schaer. *En.* p. 139 saltem p. p.“ Nyl. l. c.
- 155. C. cariosa** (Ach. *Meth.* p. 326) Flk. *Clad.* p. 11, Nyl. *Syn.* I p. 194, Anzi *Cis.* 7.
- Supra terram: Herblingen prope Schaffhausen (Schenk), Chur, Reichenau et Churwalden (Theobald), Roseggthal (Killias), Puschlav, Bormio, Como (Anzi), in monte Simplon (Baglietto), Realp (Gisler), Valsesia (Baglietto-Carestia), Dôle (Müller).
- 156. C. fimbriata** (L. *Fl. Suec.* No. 1112) Hffm. *D. Fl.* II p. 121, Nyl. *Syn.* I p. 194, Schaer. *L. H.* 58—60, 265, 589, Hepp *Fl. E.* 790, *Krypt. Bad.* 528, *Schw. Krypt.* 553, Rbh. *Clad.* Tab. XIII, XIV, Anzi *Cis.* 7.
- Frequens supra terram argillosam et arborum truncos praesertim ad sylvarum oras unacum varr. *tubaeformi* (Hffm. *D. Fl.* II p. 122) Nyl. *Scand.* p. 51, *fibula* (Ach.) Nyl. l. c. et *radiata* (Schreb.) Nyl. l. c.
- 157. * C. subcornuta** Nyl. in *Flora* 1874 p. 318, *Syn. C. fimbriata* v. *cornuta* Aut., Schaer. *L. H.* 56.
- Ad terram argillaceam.
- 158. * C. carneopallida** (Ach. *Syn.* p. 258 p. p.) Nyl. *Scand.* p. 51.

(Cladonis)

Rara supra truncos putridos: Valaccia (Killias), Bormio (Anzi), Zug (Bamberger), in monte Dôle (Müller).

- 159. C. gracilis** Hffm. *D. Fl.* II p. 119, Nyl. *Syn.* I p. 196, Schaer. *L. H.* 64, 65, 67, 69, 271, 641, Hepp *Fl. E.* 792—798, *Schw. Krypt.* 251, 452, 453, 576, Rbh. *L. E.* 291, id. *Clad.* Tab. XXIII, *Erb. critt.* 571.

Inter muscos supra terram, saxa et truncos putridos locis umbrosis in regione montana et alpina frequens et admodum variabilis.

- 160. C. cornuta** (L. *Lapp.* No. 434) Fr. *L. E.* p. 225, Nyl. *Syn.* I p. 198, Anzi *Lang.* 250, id. *Cis.* 9.

In montanis Helvetiae rara.

- 161. * C. verticillata** (Hffm. *D. Fl.* II p. 126) Flk. *Clad.* p. 26, Nyl. *Syn.* I p. 197, Schaer. *L. H.* 458.

In alpibus ad terram e. g. circa Amsteg (Gisler).

- 162. C. cervicornis** (Ach. in *V. Ak. H.* 1801 p. 342) Schaer. *En.* p. 195, Nyl. *Syn.* I p. 197, Schaer. *L. H.* 62, 63, 275, Anzi *Cis.* 12.

Ad terram in alpibus, locis praecipue cryptis: St. Moritz (Hepp), Flüela, Samnaun et Tarasp (Theobald), Bormio, Como (Anzi), Locarno et in monte Simplon (Baglietto), circa Riva (Baglietto-Carestia), circa Rolle ad lacum Lemán (Rapin), in monte Dôle (Müller), in monte Jura (Cornaz?).

- 163. C. ochrochlora** Flk. *Clad.* p. 75, Nyl. in Lamy *Cat.* p. 18, Hepp *Fl. E.* 540, *Erb. critt.* 942, *Krypt. Bad.* 121, Anzi *Cis.* 8.

Supra truncos putridos et terram turfosam in sylvis: Konstanz (Stizenberger), Zürich (Hepp), Reichenau et Bonaduz (Theobald), in vallibus Mingher et Misox (Killias), circa Como (Anzi), in valle Intrasca, Alagna, Riva (Baglietto-Carestia), Voiron prope

Genf (Müller), Stoss prope Schwyz (Harz), Grünwald, Alplerwald et Gampeln (Gisler).

C. sobolifera Del., lichen vulgaris, in Helvetia nondum reperta est.

164. **C. ecmocyna** (Ach. *Syn.* p. 262) Nyl. *Lapp.* p. 176, Schaer. *L. H.* 66, Anzi *Cis.* 10 B.

C. gracili f. *macrocerati* similis sed pallidior et K +, non rara in alpihus editioribus.

165. **C. macrophylla** (Schaer. *Spic.* p. 316) Stenh. *Vet. Ak. Förh.* 1865 p. 231, Nyl. in *Flora* 1873 p. 299, Schaer. *L. H.* 279, Anzi *Cis.* 5.

In alpihus editioribus (Schaerer, Anzi).

166. **C. decorticata** Flk. *Clad.* p. 10, Hepp *Fl. E.* 545, Nyl. in *Flora* 1873 p. 299.

In Valisia a Schleichero lecta est (Hb. Zwackh).

167. **C. degenerans** Flk. *Clad.* p. 41, Nyl. *Syn.* I p. 199, Schaer. *L. H.* 271, Hepp *Fl. E.* 295, Rbh. *L. E.* 292, 301, Anzi *Lang.* 502, id. *Cis.* 13.

Supra terram et ad rupes in alpihus Rhaeticis (Hepp, Theobald, Killias, Anzi), Urnensibus (Gisler), in montibus Grimsel, Gemmi (Schaerer), Tödi (Brügger), in Monte Rosa et in Valsesia (Carestia). Species admodum varians; plurimae varietates in Helvetia adsunt.

C. lepidota Ach. Nyl. ab hac K + differt; in Helvetia deesse videtur.

168. **C. trachyna** (Ach. *Syn.* p. 259) Nyl. in Norrl. *Torn.* p. 319, Hepp *Fl. E.* 296, Anzi *Cis.* 22.

Ad terram prope St. Moritz (Hepp) et in Bormiensibus Coniferarum sylvis editioribus (Anzi) semper fructifera.

169. **C. turgida** (Ehrh. *Pl. Cr.* 297) Hffm. *D. Fl.* II p. 124,

(Cladonia)

Nyl. *Syn.* I. p. 205, Anzi *Lang.* 500, Rbh. *Clad.* Tab. XXIV Suppl.

Inter muscos locis subirriguis: Zürich, St. Moritz (Hepp), Val Furva (Anzi).

170. **C. furcata** (Huds. *Fl. Angl.* p. 453) Hffm. *D. Fl.* II p. 115, Nyl. *Syn.* I p. 205, Schaer. *L. H.* 80, Hepp *Fl. E.* 812, 813, 815, Rbh. *Clad.* Tab. XXX, *Krypt. Bad.* 452, 858, *Schw. Krypt.* 53, 255, Anzi *Cis.* 23.

Valde polymorpha, supra terram in ericetis et collibus sylvaticis frequens, unacum varr. *racemosa* (Hffm.)

Nyl. l. c. p. 206 et *corymbosa* (Ach.) Nyl. l. c. 207.

171. **C. pungens** (Ach. *Prodr.* p. 202) Krb. *S. L. G* p. 35, Nyl.-Leight. *Ann. Nat. Hist.* 1866 p. 406, Schaer. *L. H.* 459, Anzi *Cis.* 24, *Erb. critt.* 572.

Locis aridis sterilibus in regione subalpina: Rhaetia (Anzi, Killias), Locarno (Baglietto), Riva (Carestia), Valisia (Schaerer), Salève (Müller). *F. nivea* Ach. *Meth.* p. 354 prope Thonon (Puget).

172. **C. crispata** (Ach. *Meth.* p. 341) Nyl. *Syn.* I p. 207, Schaer. *L. H.* 276, 277, Hepp *Fl. E.* 803 (*minor*), Rbh. *Clad.* Tab. XIX.

Ad terram muscosam et saxa in alpibus: Rhaetia (Laurer, Hepp, Brügger, Theobald), Grimsel (Schaerer), Montblanc (Müller), in alpe Cengio rotondo prope Riva (Baglietto-Carestia).

F. divulsa Del. frequens in Tirolia Helvetiae deest.

173. **C. cenotea** (Ach. *Meth.* p. 345) Schaer. *Spic.* p. 315, Nyl. *Syn.* I p. 208, Schaer. *L. H.* 71, Hepp *Fl. E.* 804, 805, Anzi *Cis.* 20.

Ad ligna putrida inter muscos et ad terram turfosam in sylvis campestribus et alpinis: prope Zürich (Hepp), Riffersweil (Hegetschweiler), in alpibus

(Cladonia)

Rhaeticis (Theobald, Killias, Anzi), circa Bern et in montibus Pilatus, Susten, Jura (Schaerer), Valsesia (Baglietto-Carestia), Dôle et aux Voirons prope Genf (Reuter, Müller).

174. **C. squamosa** Hffm. *D. Fl.* II p. 125, *Nyl. Syn.* I p. 209, Schaer. *L. H.* 72, 73, 278, Hepp *Fl. E.* 806, 807, *Schw. Krypt.* 252, *Krypt. Bad.* 526 p. p., *Erb. critt.* 943, Anzi *Cis.* 21 A p. p.

Inter muscos, supra terram, saxa et ligna putrida in sylvis campestribus et alpinis frequens.

175. * **C. caespiticia** (Pers. in *Ust. N. Ann.* I p. 155) Flk. *Clad.* p. 8, *Nyl. Syn.* I p. 210, Schaer. *L. H.* 280, *Schw. Krypt.* 254, Anzi *Cis.* 21 E.

In terra argillacea ad sylvarum oras: Konstanz (Stizenberger), Zürich, St. Moritz (Hepp), Rigi (Stizenberger), Eggbergen, Surenenecke et Altorf (Gisler), Valsesia (Baglietto-Carestia), Salève (Müller).

176. * **C. delicata** (Ehrh. *Pl. Cr.* 247) Flk. *Clad.* p. 7, *Nyl. Syn.* I p. 210, Schaer. *L. H.* 75, Hepp *Fl. E.* 112, *Schw. Krypt.* 253, Anzi *Cis.* 21 D.

Ad truncos putridos praesertim quercinos et inter muscos in sylvis campestribus: Konstanz (Stizenberger), Schaffhausen (Schenk), Zürich (Hepp), circa Bern, in monte Gurten, in sylva Forst et prope Klein-Affoltern (Schaerer), Uri (Gisler), Scopello in Valsesia (Baglietto-Carestia), Petit-Salève et sylva Vengeron prope Genf (Müller).

177. * **C. subsquamosa** *Nyl.* in *Crombie Lich. Brit.* p. 21, Schaer. *L. H.* 74, Anzi *Cis.* 21 A p. p., *Krypt. Bad.* 526 p. p.

Ad sylvarum oras prope Konstanz (Stizenberger).

(Cladonia)

178. **C. carneola** Fr. *L. E.* p. 233, *Nyl. Syn.* I p. 201, Hepp *Fl. E.* 1, 294, 791, *Anzi Cis.* 6.

Supra terram et ligna putrida in pinetis: Engadin (Hepp, Emmermann), Wänglisalp (Gisler), Simplon (Baglietto), Palanca (Baglietto-Carestia).

179. **C. botrytes** (Hag. *Lich. Pruss.* p. 121) Hffm. *D. Fl.* II p. 128, *Nyl. Syn.* I p. 202, Hepp *Fl. E.* 539.

Ad truncos putridos Laricum prope St. Moritz (Hepp).

180. **C. cornucopioides** (L. *Fl. Suec.* No. 1101) Fr. *Sched. crit.* 3 p. 19, *Nyl. Syn.* I p. 221, Schaer. *L. H.* 51, Hepp *Fl. E.* 786, *Schw. Krypt.* 350, *Anzi Cis.* 14.

Ad terram in regionibus campestribus et alpinis: Konstanz (Stizenberger), alpes Rhaeticae (Brunner, Hepp, Killias, Theobald, Emmermann, Brügger, Anzi), Urnenses (Gisler), Grimsel (Schaerer), Vallesia (Baglietto-Carestia), Jura (Chaillet), Colombier, Salève (Müller).

181. * **C. pleurota** (Flk. in *Berl. Mag.* 1808 p. 222 p. p.) Schaer. *En.* p. 186, *Nyl. Scand.* p. 59, Schaer. *L. H.* 50, *Anzi Cis.* 15.

Ad terram in sylvis campestribus et alpinis: Konstanz (Stizenberger), alpes Rhaeticae (Hepp, Killias, Theobald, Anzi), Urnenses (Gisler), Löhrmoos, Grimsel, Susten (Schaerer), Valdobbia (Baglietto-Carestia), Jura (Cornaz), Salève (Müller).

182. **C. deformis** (L. *Fl. Suec.* No. 1116) Hffm. *D. Fl.* II p. 120, *Nyl. Syn.* I p. 222, Schaer. *L. H.* 47—49, Hepp *Fl. E.* p. 292, 293, *Krypt. Bad.* 529, Rbh. *Clad.* Tab. VIII, *Erb. critt.* 944, *Anzi Cis.* 17.

Ad terram turfosam et ligna putrida regionis campestris, Jurae et alpium: Konstanz (Stizenberger), Zürich (Hepp), Rhaetia (Hepp, Killias, Theobald,

Anzi), Pilatus, vallis Gastern, Grimsel, Susten (Schaerer), Monte Rosa (Carestia), Valsesia (Baglietto-Carestia), Dôle (Müller).

- 183. C. digitata** (L. *Fl. Suec.* No. 1114) Hffm. *D. Fl.* II p. 124, Nyl. *Syn.* I p. 222, Schaer. *L. H.* 43—46.

Ad terram turfosam et ligna putrida in sylvis campestribus et in alpibus: Konstanz (Stizenberger), alpes Rhaeticae (Hepp, Theobald, Anzi), Urnenses (Gisler) et Bernenses (Schaerer), Jura (Chaillet, Rapin, Reuter, Müller, Bernet).

C. deformis var. *verrucosa* Schaer. *En.* p. 188 est forma *digitatae* (cf. Nyl. l. c. p. 223).

- 184. C. bellidiflora** (Ach. *Prodr.* p. 194) Schaer. *Spic.* p. 21, Nyl. *Syn.* I p. 221, Schaer. *L. H.* 39—42, Hepp *Fl. E.* 785, Rbh. *Clad.* Tab. VI, *Schw. Krypt.* 454, Anzi *Cis.* 16.

Ad terram et rupes terra tenui obtectas, rarius ad ligna praesertim in alpinis et subalpinis: Konstanz (Stizenberger), alpes Rhaeticae (Moritzi, Hepp, Theobald, Anzi), Urnenses (Gisler) et Bernenses (Schaerer), Valdobbia (Carestia), Jura (Cornaz), Salève (Müller).

- 185. C. macilenta** (Ehrh. *Pl. Cr.* 267) Hffm. *D. Fl.* II p. 226, Nyl. *Lapp.* p. 179, Schaer. *L. H.* 34—36, Anzi *Cis.* 19.

Supra terram turfosam vel muscosam et truncos putridos in sylvis, ericetis et ad rupes a planitie in regionem nivium aeternarum progrediens. Var. *styracella* Ach. *Meth.* p. 330, Nyl. in *Flora* 1873 p. 66 prope Veyrier et Thonon (Müller). Var. *coronata* (Ach. *Meth.* p. 333) Nyl. *Scand.* p. 62 „in Helvetia rarissimam“ e monte Gurnigel reportavit Schaerer.

(Cladonia)

- 186. C. bacillaris** (Ach. *Syn.* p. 266) Nyl. *Lapp.* p. 179, Schaer. *L. H.* 33, 37, Hepp *Fl. E.* 113, 291, *Schw. Krypt.* 554.

Ad terram turfosam; truncos arborum fugere videtur.

C. pulchella Schwein. formam aut *C. bacillaris* aut *C. macilentae* sistat.

In Bois de Vengeron prope Genf eam legit Müller.

- 187. C. Floerkeana** Fr. *L. S.* 82, Nyl. *Syn.* I p. 225, Schaer. *L. H.* 36 B et 38 p. p., Hepp *Fl. E.* 290, Rbh. *Clad.* Tab. IV.

Supra terram humosam et ligna putrida in pinetis rara: Riffersweil (Hegetschweiler), Herrenschwand (Schaerer), Simplon (Gagliardi).

III. — Cladina Nyl.

- 188. C. rangiferina** (L. *Fl. Suec.* No. 1117) Nyl. *Lapp.* p. 110, Schaer. *L. H.* 76, 77, Hepp *Fl. E.* 817, 818, Rbh. *Clad.* XXXIX, XL. Suppl., *Schw. Krypt.* 153, Anzi *Cis.* 25 A, *Krypt. Bad.* 904.

Inter muscos, supra terram et saxa in sylvis et ericetis campestribus et alpinis, vulgo immixta cum sequente.

- 189 * C. sylvatica** (Hffm. *D. Fl.* II p. 14) Nyl. *Lapp.* p. 176, Schaer. *L. H.* 78, Hepp *Fl. E.* 299, 821, *Erb. critt.* 940, Anzi *Cis.* 25 B.

Cum priore consociata et forte adhuc copiosior. Formae ejus insigniores sunt: *portentosa* (Duf. *Rév.* p. 29) Nyl. *Syn.* I p. 212, Hepp *Fl. E.* p. 822 in montibus Pilatus (Hepp) et Dôle (Müller); *alpestris* (L. *Spec.* p. 1153) Nyl. l. c., Schaer. *L. H.* 79, Hepp *Fl. E.* 819, 820, Rbh. *L. E.* 267, id. *Clad.* Tab. XXXIX, Anzi *Cis.* 25 D, Rehm *Clad.* 92 in monte

Jura et in alpihus vulgarissima; *pumila* (Ach. *L. U.* p. 566) Nyl. l. c. St. Moritz et in montibus Pilatus (Hepp) et Salève (Müller).

190. **C. amaurocraea** (Flk. in Web. et Mohr *Beytr.* 2 p. 334) Nyl. *Lapp.* p. 111, Schaer. *L. H.* 70, 272, 273, Hepp *Fl. E.* 801, 802, Rbh. *L. E.* 265, id. *Clad.* Tab. VI, *Erb. critt.* 193, 1318, Anzi *Clad.* 11.

Ad terram inter muscos in alpihus editioribus: Rhaetiae (Brunner, Hepp, Laurer, Theobald, Anzi), agri Urnensis (Gisler), Bernensis (Schaerer) et in Vallesia (Carestia).

191. **C. uncialis** (L. *Fl. Suec.* No. 1118) Nyl. *Lapp.* p. 111, Schaer. *L. H.* 82—84, Hepp *Fl. E.* 808—810, *Erb. critt.* 941, Anzi *Cis.* 26.

Supra terram inter muscos et in ericetis pinetisque cum ff. *obtusata* Ach. *L. U.* p. 55, Nyl. *Syn.* I p. 215 et *turgescens* Fr. *L. E.* p. 244, Nyl. l. c., quae alpes editiores praeamant.

Trib. VI. — SIPHULEI.

I. — **Thamnotia** Ach.

192. **T. vermicularis** (Sw. in Linn. *fil. Meth.* p. 37) Ach. *MS.*, Nyl. *Syn.* I p. 264, Schaer. *L. H.* 86, *Erb. critt.* 1165, Anzi *Cis.* 28.

Ad terram graminibus muscisque instrata in alpihus editioribus (1300 m. et ultra) mixta cum var. *taurica* (Wulf. in Jacq. *Coll.* II p. 177) Ach., Nyl. l. c., Hepp *Fl. E.* 298 Rhaetia (Brunner, Schaeerer, Theobald, Anzi), montes Urnenses (Gisler), Rigi (Stizenberger), Pilatus, Gurnigel, Stockhorn, Grimsel, Susten, Gemmi, St. Bernhard (Schaerer),

(Thamnolia)

Simplon, Valsesia (Baglietto-Carestia), Reculet (Theobald), Brezon (Reuter), Matterhorn (Calberla), Cormet (Puget), Jura (Theobald). Var. *glebosa* Schaer. *En.* p. 244, *Nyl. Scand.* p. 68 semel in monte Gemmi lecta a cel. Schaerer.

Trib. VII. — RAMALINEI.

I. — **Ramalina** Ach.

193. R. thrausta (Ach. *L. U.* p. 596) *Nyl. Syn.* I p. 296, id. *Ram.* p. 18.

Ad ramos arborum, rarissime ad saxa vel supra terram arenosam „in Helvetia“ (Schleicher teste Ach. l. c.).

194. R. calicaris (Hffm. *D. Fl.* II p. 139) *Fr. L. S.* 72, *Nyl. Ram.* p. 33.

Ad truncos abiegnos in sylvis montanis rarior. Var. *elegans* Bagl.-Car. *Anacr.* p. 159 ad Abietes prope Alagna (Baglietto-Carestia). Var. *subampliata* *Nyl. l. c.* p. 34, *Anzi. It. sup.* 63 ad truncos abiegnos in valle di Tartano (Anzi). Var. *subfastigiata* *Nyl. l. c.* ad corticem Abietum in monte Salève (Müller).

195. R. farinacea (L. *Fl. Suec.* No. 1089) Ach. *L. U.* p. 606, *Nyl. Ram.* p. 34, Hepp *K. Z.* 8, *Anzi It. sup.* 67.

Ad arborum frondosarum truncos in valle Prättigau, in Via mala et prope Fürstenau (Theobald), Veltlin (Anzi), prope Zürich (Hepp), in Bascarola prope Scopello (Baglietto-Carestia), in montibus Dôle et Salève (Müller).

196. R. fraxinea (L. *Fl. Suec.* No. 1091) Ach. *L. U.* p. 602, *Nyl. Ram.* p. 36, Hepp *K. Z.* 9, id. *Fl. E.* 167, *Schw. Krypt.* 256.

(Ramalina)

Ad truncos arborum frequens. *F. ampliata* Ach. l. c., Nyl. l. c. p. 37 ad Alnos circa Riva (Baglietto-Carestia). Var. *caliciformis* Nyl. l. c. p. 38 abieticola in monte Salève (Müller).

- 197. R. fastigiata** (Pers. in Ust. *N. Ann. Bot.* I p. 156) Ach. *L. U.* p. 603, Nyl. *Ram.* p. 39, Schaer. *L. H.* 491, Hepp *K. Z.* 10, Anzi *It. sup.* 64, *Schw. Krypt.* 352.

Frequens ad arbores.

- 198. R. capitata** (Ach. *L. U.* p. 601, Nyl. *Ram.* p. 51) id. in *Flor.* 1880 No. 1, Schaer. *L. H.* 394, Hepp *Fl. E.* 563, Anzi *Lang.* 420.

Super saxa quartzosa e regionibus montanis ad summa alpium cacumina ascendens, constanter sterilis: alpes Rhaeticae (Hepp, Theobald, Anzi), prope hospitium montis Simplon (Baglietto), in valle Saas (Schleicher), in Valsesia (Baglietto-Carestia).

- 199. R. pollinaria** Ach. *L. U.* p. 608, Nyl. *Ram.* p. 52, Schaer. *L. H.* 393, Hepp *Fl. E.* 564—566, id. *K. Z.* 6, 7, *Krypt. Bad.* 320, Anzi *It. sup.* 68, *Schw. Krypt.* 257.

Ad arborum truncos et ligna fabrefacta locis apertis necnon in sylvis regionum campestrium et montanarum frequens. Rarius saxicola in rupibus graniticis alpium: in monte Susten (Schaerer), circa Amsteg (Gisler), St. Moritz, in montibus Pfannenstiel et Forch (Hepp), Val Intrasca (Baglietto). Var. *pulvinularis* Müll.-Arg. in *lit.* calcicola in monte Salève (Rome).

- 200. R. minuscula** Nyl. (*Lapp.* p. 114) *Ram.* p. 66.

Ad ramos tenuiores Pini in Tirolia frequens; in Helvetia verisimiliter non deest.

(Usnea)

Trib. VIII. — USNEEI.

I. — **Usnea** Hffm.

- 201. U. florida** (L. *Spec.* p. 1156) Hffm. *D. Fl.* II p. 133, Nyl. in Lamy *Cat.* p. 25, Schaer. *L. H.* 398, Hepp *K. Z.* 1, id. *Fl. E.* 826 p. p., 827 a, Anzi *It. sup.* 12.

In pinetis campestribus et alpinis ad truncos ramosque arborum vulgatissima.

- 202. U. hirta** (L. *Spec.* p. 1155) Hffm. *D. Fl.* II p. 133, Nyl. in Lamy *Cat.* p. 25, Schaer. *L. H.* 399, Hepp *K. Z.* 2, id. *Fl. E.* 826 p. p., 828, Anzi *It. sup.* 16,

Ad corticem arborum, dumeta, sepes et saxa a planitie in alpes ascendens.

- 203. U. ceratina** Ach. *L. U.* p. 265, Nyl. in Lamy *Cat.* p. 25, Schaer. *L. H.* 400, Hepp *K. Z.* 3.

Ad arborum truncos: Engadin (Hepp), Amsteg (Gisler), in Valsesia (Baglietto-Carestia), supra Neuchâtel et in monte Chaumont (Cornaz).

- 204. U. dasypoga** (Ach. *Meth.* p. 312) Nyl. in Lamy *Cat.* p. 25, Schaer. *L. H.* 402, Hepp *Fl. E.* 827 b, Anzi *It. sup.* 13, *Schw. Krypt.* 551.

Ad arbores in sylvis alpinis.

- 205. U. plicata** (L. *Spec.* p. 1154) Hffm. *D. Fl.* II p. 132, Nyl. in *Flora* 1875 p. 103, Schaer. *L. H.* 401, Hepp *Fl. E.* 829, Anzi *It. sup.* 14, 20, id. *Lang.* 414.

Ad Coniferarum truncos in sylvis alpinis.

- 206. U. articulata** (L. *Spec.* p. 1156) Hffm. *D. Fl.* II p. 133.

In sylvis ad arbores: Bergell (Anzi).

- 207. U. longissima** Ach. *L. U.* p. 626, Nyl. *Syn.* I p. 270.

Ad Pinos supra Intschi et Fagos in Gitschenthal

et Wänglisalp (Gisler), in montibus Jurae (teste Nyl. l. c.)

208. U. scabrata Nyl. in *Flora* 1875 p. 103.

Abieticola in Helvetia (Nyl. l. c.).

II. — Chlorea Nyl.

209. C. vulpina (L. *Spec.* p. 1155) Nyl. *Prodr.* p. 45, id. *Syn.* I p. 274, Schaer. *L. H.* 390, Hepp *Fl. E.* 836, Rbh. *L. E.* 191, Anzi *Lang.* 19, Schw. *Krypt.* 54.

In regionibus alpinis ad Coniferarum, praesertim Laricum et Cembrarum truncos vivos et mortuos, rarius ad ligna et terram turfosam; rarissime fructifera: Rhaetia (Schaerer, Hochstetter, Hepp, Theobald, Anzi), Scheideck, Kraialp, Jura (Haller), Nufenen, Grimsel (Schaerer), Gemmi (Scheuchzer), Riffelhorn (Jack), circa Riva (Carestia), Simplon (Baglietto). Var. *incompta* (Ach. *L. U.* p. 444) Nyl. *Scand.* p. 70 ex Helvetia in Acharii herbario adest.

Trib. IX. — CETRARIEI.

I. — Cetraria Ach. p. p., Nyl.

210. C. islandica (L. *Spec.* p. 1145) Ach. *Meth.* p. 293, Nyl. *Lapp.* p. 114, Schaer. *L. H.* 22, Hepp *K. Z.* 21, 22, id. *Fl. E.* 361, Rbh. *L. E.* 208, Schw. *Krypt.* 663, *Erb. critt.* 726, Anzi *It. sup.* 49.

Supra terram sterilem e regione alpina in regionem submontanam descendens. In monte Matterhorn leg. Calberla. Var. *platyna* Ach. *Syn.* p. 341, Nyl. *Syn.* I p. 299, Rbh. *L. E.* 208 in sylvis Coniferarum editoribus rarior.

(Cetraria)

- 211. C. crispa** Ach. *Syn.* p. 229, Nyl. in Lamy *Cat.* p. 26, Schaer. *L. H.* 23, Hepp *Fl. E.* 170, Anzi *Lang.* 21.

Alpes editiores habitat, regionem nivosa[m] praeamans; comprehendit f. *subtubulosam* Fr. *L. E.* p. 37 et *erinaceam* Schaer. *En.* p. 16.

- 212. C. aculeata** (Schreb. *Fl. Lips.* p. 125) Fr. *Sched. crit.* 9 p. 32, Nyl. *Syn.* I p. 300, Schaer. *L. H.* 254, Hepp *Fl. E.* 360, Anzi *Lang.* 416, Schw. *Krypt.* 451, 737.

Ad saxa syenitica, gneissiaca et granitica muscis vestita alpium editiorum: Rhaeticarum (Tausend, Hepp, Theobald, Brügger, Anzi, Jack), Urnensium (Gisler), Bernensium (Schaerer), prope Rolle ad lacum Lemman (Rapin), prope hospitium in monte Simplon (Baglietto), circa Monte Rosa (Baglietto-Carestia). Forma *edentula* (Ach. *Syn.* p. 300) Nyl. *Scand.* p. 80, Rbh. *L. E.* 743, Anzi *Lang.* 22, Schw. *Krypt.* 665 supra terminum arboreum in alpibus Bormiensibus (Anzi), Maderanerthal, Isenalp, Bristen, Furka, Leutschach (Gisler), prope hospitium in Valdobbia et supra S. Giuseppe in valle Sermenza (Baglietto-Carestia). Var. *muricata* (Ach. *Prodr.* p. 214) Nyl. *Syn.* I p. 300, Schaer. *L. H.* 555, Anzi *Lang.* 504 in editissimis alpibus circa Bormio (Anzi), in montibus Albula (Brunner) et Grimsel (Schaerer), prope St. Moritz (Hepp).

II. — **Platysma** Hffm. p. p., Nyl.

- 213. P. nivale** (L. *Fl. Suec.* No. 1086) Nyl. *Prodr.* p. 49, id. *Syn.* I p. 302, Schaer. *L. H.* 19, Hepp *Fl. E.* 845 Anzi *It. sup.* 51, *Erb. critt.* 927.

(Platysma)

- Ad terram in alpihus regionem nivosam attingens, fidelissimus comes sequentis, raro fertile.
- 214. P. cucullatum** (Bell. *Obs. Bot.* p. 54) Hffm. *Pl. lich.* t. 66 f. 2, Nyl. *Syn.* I p. 103, Schaer. *L. H.* 18, Hepp *Fl. E.* 844, Anzi *It. sup.* 50, *Schw. Krypt.* 664, *Erb. critt.* 926.
- Ad terram in regione alpina ubique inter zonam Coniferarum et nivosam, etiam in monte Jura; raro fertile. Formam marginibus sorediatis in monte Gemmi legit Schaerer.
- 215. P. complicatum** (Laur. in Fr. *L. E.* p. 459) Nyl. *Syn.* I p. 304, Hepp *Fl. E.* 838, Anzi *Lang.* 23.
- Ad corticem Coniferarum in vallibus Bergell, Livigno, circa Bormio, in monte Stelvio (Anzi), in Gampelwald et circa Intschi (Gisler). Fructiferum legit Anzi in monte Sassalbo vallis Puschlav et prope Cerdecco in Val di Sotto, necnon Gisler supra Amsteg.
- 216. * P. Oakesianum** (Tuck. *L. N. Amer.* p. 17) Nyl. *Syn.* I p. 304, Hepp *K. Z.* 19.
- In monte Hoherohne (Hepp).
- 217. P. saepincola** Hffm. *Pl. lich.* t. 14 f. 1, Nyl. *Syn.* I p. 308, Schaer. *L. H.* 297, Hepp *Fl. E.* 843, Rbh. *L. E.* 192, Anzi *It. sup.* 54, *Erb. critt.* 421, *Schw. Krypt.* 555.
- Ad ligna, saepes, truncos et ramulos (Juniperi, Rhodendri, *Betulae pubescentis turfatae*) locis uliginosis in regionibus montanis et alpinis usque ad moles glaciales: St. Moritz (Hepp), Veltlin, circa Bormio (Anzi), circa Riva (Carestia), Dôle (Müller), Neuchâtel (Cornaz). Fertile legit Anzi prope Cerdecco supra truncum Laricis junioris.

(Platysma)

218. * **P. ulophyllum** (Ach. *Meth.* p. 297) Nyl. *Scand.* 82, Anzi *It. sup.* 54, Rbh. *L. E.* 742.

Ad truncos Pini et ligna in sylvis editioribus: Veltlin (Anzi), prope Riva et in alpibus i Vallerii dictis (Baglietto-Carestia), Dôle (Reuter).

219. **P. Fahlunense** (L. *Fl. Suec.* No. 1078) Nyl. *Syn.* I p. 309, Schaer. *L. H.* 373, 374, Hepp *Fl. E.* 586, Anzi *It. sup.* 55, 56, *Erb. critt.* 517.

Ad rupes praesertim graniticas, rarissime ad ligna alpium editiorum inter zonas Mughi et nivium aeternarum cum *Parmelia stygia* consociatum.

220. **P. polyschizum** Nyl. in *Flora* 1862 p. 82.

In montibus Corno bianco et Tagliaferro necnon in Monte Rosa (Baglietto-Carestia).

221. **P. commixtum** Nyl. *Syn.* I p. 310, Anzi *Lang.* 417.

Supra rupes in montibus elevatis socium *P. Fahlunensis*; in Hb. Schaerer e valle Gastern adest.

222. **P. juniperinum** (L. *Fl. Suec.* No. 1093) Nyl. *Prodr.* p. 49, id. *Syn.* I p. 312.

Ad Juniperos, rarius supra terram, rarissime supra saxa desideratur adhuc in Helvetia. Minime rarum vero var. *terrestre* (Schaer. *Spic.* p. 10, 249) Nyl. *Syn.* l. c., Schaer. *L. H.* 20, Hepp *Fl. E.* 840, Rbh. *L. E.* 193, Anzi *It. sup.* 52, *Erb. critt.* 472 in rupium fissuris, ad terram supra muscos destructos in alpibus praesertim calcariis inter zonam Mughi et niviosam, etiam in montibus Reculet et Brezon (Reuter). Raro adest forma muscicola placodioidea. Ad var. *alvareense* (Whlbn. *Fl. Suec.* p. 827, ed. 2 p. 863) Nyl. l. c. referendum sit *P. juniperinum* v. *tubulosum* (Schaer. *Spic.* p. 372)

(Platysma)

a beato Schaerero ad terram in monte Gemmi, in alpibus Rhaeticis (Val Pisella) ad terram calcariam prope nives aeternas a clar. Anzi (*Lang.* 371) et a cl. Puget in monte Cornet lectum.

223. **P. pinastri** (Scop. *Fl. Carn.* p. 1387) Nyl. *Lapp.* p. 115, Schaer. *L. H.* 21, Hepp *K. Z.* 20, id. *Fl. E.* 841, 842, Anzi *It. sup.* 53.

Ad fruticeta et imprimis ad infimos truncos *Pini sylvestris* et *Laricis* in alpibus, e regione alpina in montanam descendens, etiam in montibus Jurae.

224. **P. glaucum** (L. *Fl. Suec.* No. 1094) Nyl. *Prodr.* p. 49, id. *Syn.* I p. 313, Schaer. *L. H.* 252, 253, Hepp *K. Z.* 16—18, id. *Fl. E.* 574, Anzi *Lang.* 418, id. *It. sup.* 58.

Ad arborum truncos, saxa, rarius supra terram locis apertis et in sylvis regionum campestrium et montanarum.

225. **P. diffusum** (Web. *Spic. Fl. Gött.* p. 250) Nyl. in *Flora* 1872 p. 274, *Syn. Parmeliopsis placorodia* Nyl. *Syn.* II p. 55, Schaer. *L. H.* 489, Hepp *K. Z.* 65, Anzi *Lang.* 50.

Ad ligna et arborum cortices in regione campestri et subalpina: Rhaetia (Anzi), Simplon (Baglietto), circa Riva (Baglietto-Carestia).

Trib. X. — EVERNIEI.

I. — **Alectoria** Ach. p. p., Nyl.

226. **A. divergens** (Ach. *Meth.* p. 305) Nyl. *Scand.* p. 71.

Supra saxa micacea in thallo *Parmeliae omphalodis* prope hospitium montis Simplon (Baglietto).

227. **A. jubata** (L. *Fl. Suec.* No. 1124) Ach. *L. U.* p. 592,

(Alectoria)

Nyl. *Syn.* I p. 280, Schaer. *L. H.* 397, Hepp *K. Z.* 4, id. *Fl. E.* 830, Anzi *Lang.* 453, 498, id. *It. sup.* 18.

Usnearum socia ad truncos et ramos arborum, valde copiosa in termino superiore zonae arboreae at raro fertilis.

228. A. chalybeiformis (L. *Spec.* p. 1155) Ach. *Syn.* p. 291, Nyl. in *Flora* 1869 p. 444, Schaer. *L. H.* 396, Anzi *It. sup.* 21.

Ad ligna et saxa.

229. A. implexa (Hffm. *D. Fl.* II p. 134) Nyl. in *Norrl. Kar.* p. 14, Hepp *K. Z.* 5.

Haec (*setacea* Ach. *Syn.* p. 292) et ejus f. *cana* (Ach. l. c.) Nyl. l. c., Schaer. *L. H.* 496, Hepp *Fl. E.* 831, Anzi *It. sup.* 19 iisdem locis ut *A. jubatae* typus (*prolixa* Ach. l. c.) frequentissimae.

230. A. bicolor (Ehrh. *Beitr.* 3 p. 82) Nyl. *Prodr.* p. 45, id. *Syn.* I p. 279, Schaer. *L. H.* 495, Anzi *It. sup.* 22.

Ad arborum cortices et saxa inter muscos e regione campestri in alpinam adscendens: in sylva Bremgarten prope Bern, in montibus Hundschüpf, Grimsel, Gemmi, in vallibus alpinis Gastern, Antremont et Turtmann (Schaerer), Maderanerthal (Hegetschweiler), in montibus Mythen (Harz), Montblanc, Dôle, in alpibus Valsesia (Baglietto-Carestia) et prope St. Moritz (Hepp).

231. A. nigricans (Ach. *L. U.* p. 615) Nyl. *Scand.* p. 71.

In hb. Ach. ex Helvetia adest (Fr. fil. *Scand.* p. 22).

Supra hospitium in Valdobbia eam legerunt Baglietto-Carestia.

232. A. ochroleuca (Ehrh. *Beitr.* 3 p. 82) Nyl. *Prodr.* p. 47, id. *Syn.* I p. 281, Schaer. *L. H.* 395, Hepp *Fl. E.* 832, Rbh. *L. E.* 539, Schw. *Krypt.* 651, Anzi *It. sup.* 23.

Supra terram in alpium jugis frequens raro sub 1600 m. descendens rarissime fertilis: alpes Rhaeticae (Schaerer, Hepp, Theobald, Stizenberger, Anzi), Tödi (Brügger), Belmi, Gampelnglat, Furka, Leutschach, Intschialp, Bristen, St. Gotthard (Gisler), in montibus Camoghe, Susten, Grimsel, Feuerstein, Gemmi, Laubhorn, Simplon, St. Bernhard (Schaerer), Schrekhorn 4190 m. (Desor), Monte Rosa (Baglietto-Carestia), in summo monte Matterhorn (Weilemann), Mont Cornet (Puget), Fouly, la Varaz et Ineau (Haller), Montblanc.

- 233. A. sarmentosa** Ach. *L. U.* p. 559, *Nyl. Prodr.* p. 46, id. in *Flora* 1869 p. 444.

Ad arbores in sylvis alpinis in monte Hoherohne (Hepp), Gurnigel (Schaerer), Rophaien et Grünwald (Gisler), Montblanc, Valdobbia prope hospitium (Baglietto-Carestia), circa Neuchâtel (Chaillet).
 Var. *crinalis* (Ach. *L. U.* p. 594) *Nyl.* in *Flora* l. c., *Schaer. L. H.* 55 Usneis immixta in sylvis montanis ex arboribus pendet.

II. — *Dufouria* Ach.

- 234. D. madreporiformis** (Wulf. in Jacq. *Coll.* 2 t. 3, f. 2) Ach. *L. U.* p. 524, *Nyl. Syn.* I p. 287, *Schaer. L. H.* 85, *Erb. critt.* 1416.

Ad terram in radicibus destructis et in rupium fissuris alpium: circa Taubensee in monte Gemmi (Schaerer), in radice montis Piz Mezdi (Theobald), in valle d'Aosta (Carestia), in monte Rothhorn prope Zermatt, in summo monte Letschersberg (Schleicher) et cum fructibus in fastigio ad occasum spectante montis Grand Muveran supra Bex (Müller).

(Dufouria)

- 235. D. ramulosa** Hook. in *Append. to Pary's 2^d Voy.* p. 414, Nyl. in *Flora* 1863 p. 76, Anzi *Lang.* 18, *Schw. Krypt.* 455.

Supra terram alpium editissimarum locis rupestribus prope nives aeternas: Stätzerhorn 2860 m. (Theobald, Brügger), alpes Bormienses Calar Zebbru 3871 m. et Sobretta (Anzi), Piz Lischanna 3060 m. (Killias).

III. — **Evernia** Ach., Nyl.

- 236. E. furfuracea** (L. *Spec.* p. 1146) Mann *Lich. Boh.* p. 105, Nyl. *Syn.* I p. 284, Schaer *L. H.* 387, Hepp *K. Z.* 12, id. *Fl. E.* 834, *Schw. Krypt.* 653, Anzi *It. sup.* 71, *Erb. critt.* 1015.

Ad arbores et saxa in sylvis montanis et alpinis vulgaris, raro fertilis; frequentius fructiferam legerunt Anzi in agro Bormiensi et Baglietto-Carestia in Valdobbia.

- 237. E. prunastri** (L. *Spec.* p. 1147) Ach. *L. U.* p. 442, Nyl. *Syn.* I. p. 285, Schaer. *L. H.* 391, Hepp *K. Z.* 14, id. *Fl. E.* 833, *Schw. Krypt.* 258, *Krypt. Bad.* 540, Anzi *It. sup.* 70.

Ad arbores et ad sepes ligneas in sylvis campestribus et subalpinis vulgaris, at raro fertilis. Var. *gracilis* Ach. *L. U.* p. 442, Nyl. *Scand.* p. 74 ad frutices in sylvis prope Konstanz (Stizenberger).

- 238. E. thamnodes** (Fw. in Krb. *S. L. G.* p. 42) Arn. *Tir.* X p. 22, Anzi *Lang.* 20.

Ad saxa, Abietes, Mughos et Larices in sylvis alpinis circa Bormio (Anzi), in monte Tête-noire et supra Isenfluhe (Schaerer), in alpibus Pissole et Casera superiore prope Riva (Baglietto-Carestia).

(Evernia)

- 239. E. divaricata** (L. S. N. p. 713) Ach. *L. U.* p. 441, Nyl. *Syn.* I p. 285, Schaer. *L. H.* 392, Hepp *K. Z.* 15, id. *Fl. E.* 835, Anzi *It. sup.* 72, *Erb. critt.* 184.

Ad Abietes Pinosque in sylvis montanis et alpinis copiosissime, rarius ad saxa; haec saxicola terminum arboreum superat (Theobald).

Trib. XI. — PARMELIEI.

I. — **Parmelia** Ach., Nyl.

- 240. P. caperata** (L. *Spec.* p. 1147) Ach. *Meth.* p. 216, Nyl. *Syn.* I p. 376, Schaer. *L. H.* 377, Hepp *K. Z.* 42, id. *Fl. E.* 854, Anzi *It. sup.* 107, Rbh. *L. E.* 98, *Krypt. Bad.* 257, *Schw. Krypt.* 559.

Locis apertis ad arborum truncos saxaque in regionibus campestribus et alpinis vulgatissima.

- 241. P. conspersa** (Ehrh. in Ach. *Prodr.* p. 118) Ach. *Meth.* p. 205, Nyl. *Syn.* I p. 391, Schaer. *L. H.* 379, Hepp *K. Z.* 71, 72, Anzi *It. sup.* 108.

Frequentissima ad saxa granitica et arenaria, interdum ad ligna et cortices in regionibus campestribus et alpinis, etiam ad saxa erratica in monte Jura. *F. terrestris* Arn. in *Flora* 1864 p. 594 ad terram calcis partes continens in monte Salevula (Rome). *Varr. stenophylla* Ach. *Syn.* p. 209, Anzi l. c. 109 et *isidiata* Anzi *Cat.* p. 28, id. *It. sup.* 110 cum typo. *Var. sorediata* Schaer. *Hb.* ad saxa erratica prope Neuenstein, pagi bernensis (Schaerer). *Var. hypoclستا* Nyl. *Syn.* I p. 391 saxicola in monte Salève (Müller) et prope Arenthon (Puget). *F. georgiana* Ach. *L. U.* p. 487 prope Pringy (id.).

(Parmelia)

- 242. P. incurva** (Pers. in Ust. *N. Ann. Bot.* I p. 24) Fr. *Sched. crit.* 9 p. 31, Nyl. *Syn.* I p. 394.

Ad saxa quartzosa prope Morel in Valisia (Schleicher).

- 243. P. olivetorum** (Ach. *L. U.* p. 458) Nyl. *Lapp.* p. 180, Schaer. *L. H.* 360 p. p., Anzi *Lang.* 48, id *It. sup.* 99.

Ad saxa et arborum truncos circa Bern, Bremgarten et Meyringen (Schaerer), ad Laricum ramulos pendens prope Riffersweil (Hegetschweiler jr.), Veltlin (Anzi), Valsesia (Baglietto-Carestia). Teste Fr. fil. *Scand.* p. 112 ex Helvetia in hb. Acharii asservatur. In terris vicinis minime rara.

- 244. P. cetrarioides** (Del. *hb.*) Nyl. in *Flora* 1869 p. 290, Hepp *Fl. E.* 578.

Ad arborum truncos prope Zürich (Hepp).

- 245. P. crinita** Ach. *Syn.* p. 196, Nyl. *Syn.* I p. 380 et in *Flora* 1869 p. 91, Hepp *Fl. E.* 579.

Ad corticem Pinorum et Fagorum prope Altorf (Gisler).

Var. *ciliata* (DC. *Fl. fr.* II p. 403) Nyl. in *lit.*, Hepp *K. Z.* 41, Anzi *It. sup.* 100, 101 cum typo, sed rarius occurrit et vix distinguenda. Var. *excrescens* (Arn. *Exs.* 655) Nyl. in *lit.* ad rupes prope Scopello (Baglietto-Carestia).

- 246. P. perlata** (L. Jacq. *Coll.* 4, t. 10) Ach. *Meth.* p. 216, Nyl. *Syn.* I p. 379, Schaer. *L. H.* 360 p. p., Hepp *K. Z.* 40, id. *Fl. E.* 580, *Erb. critt.* 930.

Ad arborum truncos ramosque et ad saxa locis apertis et sylvaticis in regionibus campestribus et alpinis.

- 247. P. scorteia** (Ach. *Syn.* p. 197) Nyl. in *Flora* 1872 p. 426, Schaer. *L. H.* 359, Anzi *It. sup.* 103, *Schw. Krypt.* 57.

Ad muscos destructos.

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- 248. P. tiliacea** (Hffm. *En.* p. 96) Ach. *Meth.* p. 215, Nyl. *Syn.* I p. 382, Schaer. *L. H.* 358, Hepp *K. Z.* 68, id. *Fl. E.* 855, Anzi *Lang.* 26, id. *It. sup.* 102.

Ad arborum truncos (raro ad saxa) in regionibus campestribus et montanis unacum praecedente. Var. *convoluta* Schaer. *En.* p. 44 in Helvetia australiori (Hegetschweiler, Schaerer).

- 249. * P. carporhizans** Tayl. in Hook. *Journ. Bot.* 1847 p. 163, Nyl. in *Flora* 1872 p. 426, Rbh. *L. E.* 501, *Erb. critt.* 466.

Ad saxa granitica circa Riva et Alagna in Valsesia (Baglietto-Carestia).

- 250. P. revoluta** Flk. *D. L.* 15, Nyl. in *Flora* 1869 p. 289, Anzi *Lang.* 49.

Ad saxa granitica et gneissica: Puschlav (Theobald, Killias), Val Malenco in Veltlin (Anzi), ad Abietes prope Gossau (Hegetschweiler). Forma *angustifolia* muscicola e Veltlin in Anzi *Lang.* 256 datur.

- 251. P. sinuosa** (Sm. *E. B.* 2050) Nyl. in *Flora* 1869 p. 292.

Ad Abietum truncos 20—30 m. supra terram prope Gossau et fructifera prope Riffersweil (Hegetschweiler jr.).

- 252. P. Borreri** Turn. in *Trans. Linn. Soc.* 5 p. 148, Nyl. *Syn.* I p. 389, Schaer. *L. H.* 361, Hepp *K. Z.* 69, id. *Fl. E.* 582, Rbh. *L. E.* 134, Anzi *Lang.* 374.

Ad truncos arborum, trabes et saxa muscis vestita locis apertis regionis campestris et montanae plerumque sterilis: circa Konstanz (Stizenberger), Zürich (Hepp), in Veltlin (Anzi), prope Schattdorf et Amsteg (Gisler), circa Riffersweil, Mettmestetten (Hegetschweiler jr.), Bern, Belp, Zimmerwald, Thun et in Schwendialp (Schaerer), prope Varallo (Baglietto-Carestia), in monte Petit-Salève

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(Müller). Var. *ulophylla* (Ach. *Syn.* p. 197) Nyl. l. c. teste Ach. quoque ad arborum truncos in Helvetia viget.

- 253. P. saxatilis** (L. *Fl. Suec.* No. 1075) Ach. *Meth.* p. 204, Nyl. *Syn.* I p. 388, Schaer. *L. H.* 362, 363 p. p., Hepp *Fl. E.* 860, Anzi *It. sup.* 104 a, c, Rbh. *L. E.* 350, *Erb. critt.* 118 B, *Schw. Krypt.* 355.

Supra saxa, arborum truncos et ligna locis apertis et in sylvis e regione campestri in summas alpes ascendens. F. *crinalis* Hepp *Fl. E.* 861 ad saxa in pineto prope Contamines (Müller). F. *horrescens* (Tayl. in Mack *Fl. Hib.* p. 144) Wedd. *Lig.* p. 11, Schaer. *L. H.* 363 p. p., Hepp *Fl. E.* 862 ad saxa. F. *furfuracea* Schaer. *Spic.* p. 455, id. *L. H.* 363 p. p., Hepp *Fl. E.* 863 ad saxa.

- 254. P. sulcata** Tayl. in Mack. *Fl. Hib.* p. 145, Nyl. in *Flora* 1872 p. 66, Hepp *K. Z.* 70, Anzi *It. sup.* 104 b.

Ad cortices arborum et ramos praesertim in regione campestri minime rara; fructifera magna manu in sylvis prope Konstanz (Stizenberger).

- 255. P. omphalodes** (L. *Fl. Suec.* No. 1075) Ach. *L. U.* p. 569, Nyl. in *Flora* 1872 p. 548, Schaer. *L. H.* 488.

Ad saxa rarius ad Laricum truncos, in alpebus minus frequens. Var. *panniformis* (Wulf.) Ach. l. c., Nyl. l. c. Schaer. *L. H.* 364, Hepp *Fl. E.* 864, Anzi *Lang.* 294, *Erb. critt.* 67 ad saxa umbrosa et rorida in alpebus editioribus frequens.

- 256. P. acetabulum** (Neck. *Delic.* p. 506) Dub. *Bot. Gall.* p. 601, Nyl. *Syn.* I p. 394.

Ad truncos arborum praesertim Populorum rara et plerumque sterilis: prope Konstanz (Stizenberger),

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circa Bern (Schaerer), in monte Jura (Cornaz), in Valsassina et ad Alnos prope Bormio 1400 m. (Anzi), in monte Salève ad Pinos (Müller).

- 257. P. olivacea** (L. *Spec.* p. 1143) Ach. *Meth.* p. 213, Nyl. *Syn.* I 395, Hepp *K. Z.* 73 p. p., id. *Fl. E.* 866, Anzi *Lang.* 507.

Ad cortices arborum, praeprimis frondosarum, rarius ad ligna et saxa, vulgaris.

- 258. P. exasperata** (Ach. *L. U.* p. 645) DN. *Parm.* p. 18, Nyl. *Syn.* I p. 396, Hepp *K. Z.* 73 p. p., id. *Fl. E.* 367, Anzi *It. sup.* 115, id. *Lang.* 540.

Ad cortices arborum praesertim ramorum nec non ad casas ligneas vento expositas frequens: Konstanz (Stizenberger), Zürich (Hepp), Schwyz (Harz), Rhaetia (Anzi), Simplon (Baglietto), circa Riva (Baglietto-Carestia).

- 259. P. exasperatula** Nyl. in *Flora* 1873 p. 299.

Ad ramulos *Abietis pectinatae* prope Gossau (Hegetschweiler jr.).

- 260. P. proluxa** (Ach. *Meth.* p. 214) Nyl. *Syn.* p. 396, Schaer. *L. H.* 372, Hepp *K. Z.* 74, Anzi *It. sup.* 116.

Ad rupes praesertim granitosa et silacea a planitie usque ad regionem niviosam frequens, ad saxa erraticum in monte Jura. Var. *pannariiformis* Nyl. in *Lamy Cat.* p. 35, *Syn. P. proluxa f. panniformis* id. *Scand.* p. 102, Anzi *Lang.* 428 ad rupes graniticas locis sylvestribus: in Veltlin (Anzi), circa Riva et Rimasco (Baglietto-Carestia).

- 261. * P. sorediata** (Ach. *L. U.* p. 471, Nyl. *Scand.* p. 102, id. *Lapp.* p. 120) Fr. fil. *Arct.* p. 56.

Ad saxa micacea alpium: Oberengadin, Bregaglia,

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Antremont, in monte Grimsel (Schaerer), ad saxa erratica montis Salève (Müller).

- 262. P. fuliginosa** (Fr. in Dub. *Bot. Gall.* p. 602) Nyl. in *Flora* 1868 p. 346, Schaer. *L. H.* 371, Hepp *Fl. E.* 867, Anzi *It. sup.* 114.

In cortice arborum rarius ad muscos regionum campestrium: Veltlin (Anzi), Gurnigel (Schaerer), prope Liestal (Hepp), Bristen et Riffersweil (Hegetschweiler jr.). Muscicolam prope Tarasp legit Jack. Var. *laetevirens* (Fw. *Lich. Fl. S.* 90) Krb. *S. L. G.* p. 78, Rbh. *L. E.* 902 ad Abietum juniorum corticem in sylvis prope Konstanz (Stizenberger).

- 263. * P. subaurifera** Nyl. in *Flora* 1873 p. 22.

Ad Abietes prope Gossau, ad Salices, Alnos et Larices montis Albis (Hegetschweiler jr.).

- 264. P. glabra** (Schaer. *Spic.* p. 466) Nyl. in *Flora* 1872 p. 548, Schaer. *L. H.* 370, Anzi *It. sup.* 113.

Ad arbores prope Bormio (Anzi) et Gurnigel (Schaerer).

- 265. P. stygia** (L. *Fl. Suec.* No. 1097) Ach. *Meth.* p. 203, Nyl. *Syn.* I p. 397, Schaer. *L. H.* 255, Hepp *Fl. E.* 587, Anzi *It. sup.* 111.

Supra rupes graniticas alpium editiorum, aliquando in sylvas abiegnas descendens: Rhaetia (Hepp, Anzi, Stizenberger, Brügger), alpes Urnenses (Gisler) et Bernenses (Schaerer), prope hospitium in monte Simplon (Baglietto), in Valsesia (Baglietto-Carestia), Salève (Müller).

- 266. P. tristis** (Web. *Spic.* p. 209) Nyl. *Prodr.* p. 58, Schaer. *L. H.* 256, Hepp *Fl. E.* 846, Rbh. *L. E.* 319, Anzi *It. sup.* 57, *Erb. critt.* 366.

Ad saxa granitica alpium editiorum frequens inter

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zonas Mughi et nivium aeternarum. In monte Matterhorn legit Calberla.

- 267. P. lanata** (L. *Fl. Suec.* No. 1125) Nyl. *Prodr.* p. 58, id. *Syn.* I p. 398, Schaer. *L. H.* 257, Hepp *Fl. E.* 588, Rbh. *L. E.* 688, Anzi *Lang.* 53, *Erb. critt.* 1221.

Ad saxa alpium editiorum et editissimarum tam granitosarum quam calcariarum: Rhaetia (Hepp, Theobald, Anzi, Brügger, Stizenberger), in montibus Bristen, Furka, Isenmannsalp (Gisler), Gotthard, Susten, Pilatus, Grimsel (Schaerer), Rothhorn (Brunner), prope hospitium in monte Simplon (Baglietto), in Monte Rosa (Carestia), Matterhorn (Calberla), Corno bianco et prope hospitium in Valdobbia (Baglietto-Carestia).

- 268. P. minuscula** Nyl. *Lapp. or.* p. 120, id. in *Flora* 1879 p. 354.

In montibus Bella Tola (Kündig) et Matterhorn (Güttinger).

- 269. P. physodes** (L. *Fl. Suec.* No. 1081) Ach. *Meth.* p. 250, Nyl. *Syn.* I p. 400, Schaer. *L. H.* 366, Hepp *K. Z.* 62, id. *Fl. E.* 584, *Erb. critt.* 567, Anzi *Lang.* 257 a, Rbh. *L. E.* 186 b.

Supra saxa, ligna et truncos arborum locis apertis et in sylvis e regionibus campestribus in alpinas ascendens, fertilis prope Riffersweil (Hegetschweiler jr.).
 Var. *platyphylla* Ach. l. c., Nyl. l. c. inter Vallorcine et Argentière in Valisia inferiore, etiam in Jura (Schaerer).
 Var. *labrosa* Ach. Nyl. l. c. ad Laricum ramulos prope Riffersweil (Hegetschweiler jr.), in montanis Jurae (Schaerer), aux Pitons de Salève (Müller).

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- 270. P. vittata** Ach. *Meth.* p. 251, Nyl. in *Flora* 1875 p. 106, Schaer. *L. H.* 367, Hepp *K. Z.* 63, Anzi *Lang.* 257c.

Vulgata ad Abietum truncos in sylvis circa Riffersweil (Hegetschweiler), Bern, in monte Jura (Schaeerer), Rhaetia (Anzi) et Valsesia (Baglietto-Carestia).
F. hypotrypodes Nyl. in *Flora* (1874 p. 16) 1875 p. 106 in sylvis prope Gossau (Hegetschweiler jr.).

- 271. * P. austerodes** Nyl. in *Flora* 1881 p. 537, Hepp *Fl. E.* 585, Anzi *Lang.* 257b.

Ad truncos Pinorum in regionem nivosam usque ascendens socia *Alectoriae bicoloris*.

- 272. P. encausta** (Sm. in *Trans. Linn. Soc.* 1 t. 24 f. 6) Ach. *Meth.* p. 202, Nyl. *Syn.* I p. 401, Schaer. *L. H.* 368, *Erb. critt.* 119, Anzi *It. sup.* 106.

Ad saxa granitica in alpibus ubique. In summo monte Matterhorn legit Calberla. Var. *candefacta* Ach. *L. U.* p. 490, Nyl. *Scand.* p. 100, Hepp *Fl. E.* 52 ad saxa granitica in alpibus: Oberalp (Hegetschweiler), Albula, St. Moritz, Furka, Stelliboden, Muthorn (Gisler), Gotthard, Grimsel (Schaeerer).
 Var. *intestiniformis* (Ach. *Syn.* p. 220) Nyl. *Syn.* l. c. ad saxa in Roseggthal (Theobald) et in summo monte Matterhorn (Weilemann). Var. *atrofusca* Schaer. *En.* p. 42, Nyl. l. c. in summis alpibus Rhaeticis Julier, Bernina, St. Bernhard (Schaeerer), Schreckhorn (Desor), Distelgrat (Brun), Schwarzhorn supra Tourtemagne (Privat), ad saxa erratica in monte Salève (Müller). Var. *textilis* *L. U.* p. 490, Norrl. *H. L. F.* 203 in alpibus.

- 273. P. alpicola** Fr. fil. *Arct.* p. 51, Nyl. in Norrl. *Torn.* p. 325.

Ad saxa alpium Urnensium (Gisler).

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- 274. P. pertusa** (Schrank *Bav.* II No. 1513) Schaer. *En.* p. 43, *Nyl. Syn.* I p. 402, Schaer. *L. H.* 465, Hepp *K. Z.* 64, Anzi *It. sup.* 105, *Erb. critt.* 832.

Ad Abietum truncos in sylvis campestribus et montanis, necnon ad saxa muscis vestita, altitudinem 1100m. non superans, plerumque sterilis: Konstanz (Stizenberger), Ütli, Hoherohne (Hepp), prope Riffersweil (Hegetschweiler jr.), Veltlin (Anzi), in montibus Urnensibus (Gisler), Bern, Belp, in monte Gurnigel (Schaerer), Simplon (Baglietto), in Valsesia (Baglietto-Carestia), Dôle, Salève (Müller); Jura (Cornaz).

II. — Parmeliopsis Nyl.

- 275. P. ambigua** (Wulf. in Jacq. *Coll.* IV p. 239) Nyl. *Lapp.* p. 121, Schaer. *L. H.* 375, Hepp *K. Z.* 66, id. *Fl. E.* 858, Anzi *Lang.* 52, *Erb. critt.* 16.

Ad Pini corticem et truncos putridos in regionibus montanis et alpinis frequens: Rhaetia (Hepp, Theobald, Stizenberger, Anzi), Albis (Hegetschweiler), Hoherohne (Hepp), in montibus Urnensibus (Gisler), Bernensibus, in montibus Jurae (Schaerer), in Valsesia (Baglietto-Carestia).

- 276. P. aleurites** (Ach. *Meth.* p. 208) Nyl. *Lapp.* p. 121, Schaer. *L. H.* 376, Hepp *K. Z.* 67, Anzi *Lang.* 51.

Semper mixta cum priore, sed rarior: Veltlin (Anzi), Maderanerthal, Grünwald (Gisler), Hoherohne (Hepp), Valsesia (Baglietto-Carestia), Simplon (Baglietto), Dôle (Müller). Forma *hyperopta* (Ach. *Syn.* p. 208) Nyl. *Scand.* p. 106 non Krb. ex Helvetia in Herbario Achariano adest.

(Stictina)

Trib. XII. — STICTEI.

I. — *Stictina* Nyl.

277. *S. limbata* (Sm. *E. Bot.* t. 1104) Nyl. *Syn.* I p. 346.

Ad radices arborum et rupes muscosas.

278. *S. fuliginosa* (Dicks. *Crypt.* 1 p. 13) Nyl. *Syn.* I p. 347, Schaer. *L. H.* 386, Hepp *Fl. E.* 371 p. p., Anzi *It. sup.* 97, *Erb. critt.* 929.

Ad saxa muscosa et ad truncos arborum vetustarum in vallibus alpinis regionem Mughii attingens: in Rhaetia (Theobald, Anzi), in introitu vallis Hasligrund, in Bois de Göre Valisiae inferioris (Schaeerer), in montibus Salève (Seringue), Albis, Rigi, Pilatus (Hegetschweiler), in agro Urnensi (Gisler) et in valle Vegezzo provinciae Domodossola (De Notaris).

279. *S. sylvatica* (L., Huds. *Fl. Angl.* p. 547) Nyl. *Syn.* I p. 348, Schaer. *L. H.* 258, Hepp *K. Z.* 33, id. *Fl. E.* 371 p. p., 868, Anzi *It. sup.* 96.

Ad terram, arborum radices truncosque in regione montana et alpina: Veltlin et ager Bormiense (Anzi), Hoherohne et Hörnli (Hepp), ad thermas Weissenburg, supra Blumenstein, in montibus Gurnigel, Stockhorn et Gemmi (Schaeerer), prope Riva (Baglietto-Carestia), etiam circa Neuchâtel (Chaillet) et Contamines (Müller).

II. — *Lobarina* Nyl.

280. *L. scrobiculata* (Scop. *Carn.* p. 384) Nyl. in *Flora* 1877 p. 233.

Ad truncos arborum et saxa muscosa in sylvis montanis rarissima: circa Rodolo et Alfaedo in valle Malenco (Anzi), Valatscha et circa Tarasp (Theobald), circa Riva (Baglietto-Carestia), Neuchâtel (d'Ivernois), ad viam in montem valisiacum Eggishorn (Metzler), Montblanc (Payot). Specimina Schleicheriana e Valisia in Hb. Hegetschweiler adsunt.

III. — *Lobaria* (Hffm.) Nyl.

- 281. *L. pulmonacea*** (Ach. *L. U.* p. 449) Nyl. in *Flora* 1877 p. 233, Schaer. *L. H.* 384, Hepp *K. Z.* 38, 39, id. *Fl. E.* 53, 591, Anzi *It. sup.* 98, *Schw. Krypt.* 558.

Ad arborum truncos in sylvis regionis campestris et montanae satis frequens. Var. *linita* (Ach. *Syn.* p. 234) Nyl. *Lapp.* 119, Schaer. *L. H.* 385, Hepp *Fl. E.* 368, Anzi *Lang.* 47, Rbh. *L. E.* 188, 207, *Erb. critt.* 185, 566 iisdem stationibus.

IV. — *Ricasolia* DN., Nyl.

- 282. *R. glomulifera*** (Lightf. *Scot.* p. 853) DN. *Framm.* p. 7, Nyl. *Syn.* I p. 368, Anzi *Lang.* 372.

Ad corticem Fagi in valle del Masino et supra Campo in Veltlin (Anzi), Etlzithal (Hegetschweiler), Erstfelderthal (Hegetschweiler jr.).

- 283. *R. herbacea*** (Huds. *Fl. Angl.* p. 544) DN. *Framm.* p. 7, Nyl. *Syn.* I p. 369.

Ad saxa et truncos arborum locis umbrosis campestribus et alpinis: Gitschenthal (Gisler), Handeck (Hegetschweiler), in valle Guttannen (Schaerer).

(Nephroma)

Trib. XIII. — PELTIGEREI.

Subtrib. I. — PELTIDEI.

I. — Nephroma.

284. N. laevigatum (Ach *Syn.* p. 242) Nyl. *Syn.* I p. 320, Anzi *Lang.* 24.

Ad arborum truncos, saxa et terram muscosam in Veltlin (Anzi), circa Schwyz (Harz) et in monte Jura (Schaerer). Var. *papyraceum* (Hffm. *D. Fl.* II p. 108) Nyl. *Syn.* l. c., Hepp *K. Z.* 23, id. *Fl. E.* 849, Rbh. *L. E.* 351 iisdem stationibus circa Schwyz (Harz), Heinrichsbad (Cramer), in montibus Hoherohne (Hepp) et Jura (Schaerer). Var. *parile* (Ach. *Prodr.* p. 164) Nyl. *L. P.* 109, id. *Syn.* l. c., Hepp *Fl. E.* 364, id. *K. Z.* 24, Anzi *Lang.* 253, 254, Schaer. *L. H.* 260 sinistr. ad arborum truncos et saxa typo frequentius sed saepissime sterile. Var. *subtomentellum* Nyl. *Lapp.* p. 116, Anzi *Lang.* 252 ad arborum truncos et saxa granitica muscosa alpium Rhaeticarum, saepe fructiferum (Anzi).

285. N. tomentosum (Hffm. *D. Fl.* II p. 108) Nyl. *En.* p. 101, id. *Syn.* I p. 319, Schaer. *L. H.* 260 dextr., Hepp *Fl. E.* 262, Rbh. *L. E.* 69, *Schw. Krypt.* 353, 666, *Erb. critt.* 183.

Ad latera rupium muscosa et ad infimos arborum truncos in sylvis montanis et alpinis. Var. *rameum* Schaer. *En.* p. 18, Nyl. *Syn.* l. c., Schaer. *L. H.* 508, Anzi *It. sup.* 87 supra ramos abiegnos emortuos in recessu montis prope Ostermündingen (Fischer)*, Veltlin (Anzi). Var. *helveticum* (Ach.

* Excisa sylva non jam ibi reperitur.

L. U. p. 523) Nyl. II. cc., Anzi *Lang.* 427 ad Abietum ramulos in sylvis Coniferarum prope Rodolo in Veltlin (Anzi), in montibus Helvetiae mitioris (Schleicher).

II. — Peltidea (Ach.) Nyl.

- 286. P. aphthosa** (*L. Fl. Suec.* No. 1098) Ach. *L. U.* p. 516, Nyl. *Lapp.* p. 117, Schaer. *L. H.* 29, Hepp *K. Z.* 25, id. *Fl. E.* 173, Anzi *It. sup.* 90, id. *Lang.* 458, *Schw. Krypt.* 556.

Ad terram in sylvis planitiei et in summis alpibus: Chur (Theobald), Reichenau, Davos (Brügger), St. Moritz (Stizenberger), Veltlin et circa Bormio (Anzi), Zürich (Hepp), in montibus Albis (Hegetschweiler jr.), Gibel (Harz), Gampeln et Grünwald (Gisler), in ditone Bernensi (Schaerer), Genevensi (Müller), in monte Simplon et in Val Intrasca (Baglietto), circa Monte Rosa (Baglietto-Carestia).

- 287. P. venosa** (*L. Fl. Suec.* 1097) Ach. *Meth.* p. 282, Nyl. *Lapp.* 118, Schaer. *L. H.* 26, Hepp *Fl. E.* 172, Anzi *It. sup.* 95, *Krypt. Bad.* 32, *Schw. Krypt.* 354, *Erb. critt.* 728.

Ad vias cavas planitiei uti summis in alpibus: Konstanz (Leiner), Schaffhausen (Schenk), Zürich (Hepp), Rhaetia (Theobald), Veltlin (Anzi), Rosstock, Niederbauen, Surenecke, Realp, Furka, Badus, Maderanerthal (Gisler), Könitz (Fischer), Zofingen (Geheeb), Gemmi, Susten, St. Bernhard (Schaerer), Simplon (Baglietto), circa Monte Rosa (Baglietto-Carestia) et Genf (Müller).

(Peltigera)

Subtrib. II. — PELTIGERI.

I. — **Peltigera** (Hffm.) Nyl.

- 288. P. malacea** (Ach. *Syn.* p. 242) Fr. *L. E.* p. 44, Nyl. *Syn.* I p. 223, Hepp *Fl. E.* 50, Anzi *It. sup.* 89, *Schw. Krypt.* 456.

Ad terram locis saxosis et muscosis in sylvis regionis montanae et alpinae: minime rara in Rhaetia (Theobald, Killias, Anzi), aliis locis rarior: Grimsel (Hegetschweiler), St. Bernhard (Schaerer), Simplon (Baglietto), Mornex (Müller).

- 289. P. canina** (L. *Fl. Suec.* No. 1100) Hffm. *D. Fl.* II p. 106, Nyl. *Syn.* I p. 324, Schaer. *L. H.* 28, Hepp *K. Z.* 28, id. *Fl. E.* 365, Anzi *It. sup.* 92, *Erb. critt.* 516.

Inter muscos supra terram, muros, saxa et truncos arborum vulgaris; forma minor in monte Uetli a beato Hepp lecta et *melanorhiza* nominata est. Var. *membranacea* (Ach. *L. U.* p. 517) Nyl. l. c., Hepp *K. Z.* 26, id. *Fl. E.* 575, Anzi *It. sup.* 91 similibus locis ut typus. F. *sorediata* Schaer. *En.* p. 20, Hepp *K. Z.* 27 supra terram in sylvis et ad vias rusticas prope Zürich (Hepp).

- 290. P. rufescens** Hffm. *D. Fl.* II p. 170, Nyl. *Syn.* I p. 324, Hepp *K. Z.* 29, id. *Fl. E.* 850, Anzi *Lang.* 25.

Frequens supra terram, muros, saxa. Forma intermedia inter hanc et *P. caninam* (*P. Neckeri* Hepp in Müll.-Arg. *Genev.* p. 30) ad thermas Weissenburgenses (Schaerer) et in pascuis montis Salève (Müller) lecta est. Var. *vulnerata* Müll.-Arg. *Hb.* in monte Salève (Müller), Rossau (Hegetschweiler jr.).

- 291. P. spuria** (Ach. *Prodr.* p. 159) DC. *Fl. Fr.* 2 p. 406, Nyl. *Syn.* I p. 325.

(Peltigera)

Ad terram in Coniferarum sylvis prope Bormio (Anzi), Angera ad lacum Verbanum (Baglietto), Brauneck in Argovia (Müller), Riva (Baglietto-Carestia), in monte Salève et prope Aïre (Rome).

292. P. scabrosa Fr. fil. *Arct.* p. 45.

Ad terram rara: Chiasso (Anzi), ad saxa calcaria aprica montis Salève (Müller).

293. P. limbata Del., Nyl. in Norrl. *H. L. F.* 119, Hepp *Fl. E.* 51.

Ad arbores pomiferas vetustas prope Riffersweil (Heggetschweiler). Var. *sorediata* Del. *Hb.*, Lamy *Cat.* p. 43 in sylvis circa Bern (Schaerer) et in monte Salève (Rome).

294. P. polydactyla (Neck. *Meth.* p. 132) Hffm. *D. Fl.* II p. 106, Nyl. *Syn.* I p. 326, Schaer. *L. H.* 30, Hepp *K. Z.* 31, Anzi *It. sup.* 94.

Supra terram muscosam et ad basin truncorum arborum in sylvis campestribus et alpinis. Var. *microcarpa* (Ach. *Syn.* p. 210) Nyl. l. c. prope Genf (Müller). Var. *collina* Ach. *L. U.* p. 515 ad saxa erratica montis Salève (Rome). Var. *lophyra* (Ach. l. c. p. 516) Nyl. *Scand.* 90 jam ab Achario pro Helvetia indicata, lecta est in valle Fex (Killias 1862 No. 84). Var. *hymenina* (Ach. l. c. p. p.) Nyl. l. c., Hepp *Fl. E.* 851 prope Liestal (Hepp) et Eaux-vives (Müller).

295. P. horizontalis (L. *Mant.* p. 132) Hffm. *D. Fl.* II p. 107, Nyl. *Syn.* I p. 327, Schaer. *L. H.* 27, Hepp *K. Z.* 32, id. *Fl. E.* 852, *Krypt. Bad.* 256, Anzi *It. sup.* 93, *Erb. critt.* 1419.

Ad terram et ad saxa inter muscos in sylvis campestribus et in alpibus sat frequens.

(Nephromium)

II. — Nephromium Nyl.

296. **N. lusitanicum** (Schaer. *En.* p. 323) Nyl. in *Flora* 1870 p. 38, Hepp *Fl. E.* 363, *Erb. critt.* 419.

Ad saxa granitica umbrosa prope St. Moritz (Hepp), ad terram muscosam et arborum truncos in montibus Valdobbiae (Carestia).

III. — Solorina Ach.

297. **S. crocea** (L. *Fl. Suec.* No. 1101) Ach. *L. U.* p. 149, Nyl. *Syn.* I p. 329, Schaer. *L. H.* 24, Hepp *Fl. E.* 577, *Schw. Krypt.* 557, Anzi *It. sup.* p. 86, *Erb. critt.* 470.

Supra terram nudam et in fissuris rupium summorum alpium ubique, sed vix infra 1600 m. descendens. Formam *complicatam* caespitoso-polyphyllam Anzi in agro Bormiensi legit; eandem prope hospitium in Valdobbia indicant Baglietto-Carestia.

298. **S. saccata** (L. *Fl. Suec.* No. 1102) Ach. *L. U.* p. 149, Nyl. *Syn.* I p. 330, Schaer. *L. H.* 25, Hepp *K. Z.* 35, id. *Fl. E.* 171, *Schw. Krypt.* 56, *Krypt. Bad.* 31, Anzi *It. sup.* 85 p. p.

Ad saxa et ad terram locis umbrosis a planitie in Juram summasque alpes ascendens. Var. *spongiosa* (Sm. *E. Bot.* t. 1374) Nyl. *Syn.* l. c. p. 331, Anzi *Lang.* 46 supra terram et in fissuris rupium vel ad earum basin inter muscos in sylva Bremgarten prope Bern (Schaerer), ad Rosenlauigletscher (Jack), Klausenpass (Gisler), prope Mornex (Müller), circa Bormio (Anzi), in Valsesia (Baglietto-Carestia).

- 299. S. octospora** Arn. *Exs.* 529, Anzi *It. sup.* 85 p. p.
In montibus Olen et Palanca (Baglietto-Carestia), Veltlin (Anzi).
- 300. S. bispora** Nyl. *Syn.* I p. 331.
Locis similibus ac *S. saccata* inter Weissenstein et Bergün (Stizenberger), Maloja (Theobald), in monte Grand Muveran supra Bex et prope hospitium Monvoisin (Müller), in montibus Säntis, Glärnisch et Urirothstock (Hegetschweiler jr.), in monte Olen (Baglietto-Carestia).

Trib. XIV. — PHYSCIEI.

I. — *Physcia* Fr.

- 301. P. chrysophthalma** (L. *Mant.* p. 31) DC. *Fl. Fr.* 2 p. 401, Nyl. *Syn.* I p. 410, *Erb. critt.* 37.
Ad fruticeta et arborum ramulos et truncos sub coelo mitiore passim plerumque sat parce: circa Locarno (Franzoni) et Bellinzona (Thomas, Hooker) ad ramulos Crataegi.
- 302. P. parietina** (L. *Fl. Suec.* No. 1080) DN. *Parm.* p. 23, Nyl. *Syn.* I p. 410, Schaer. *L. H.* 380, Hepp *K. Z.* 75, id. *Fl. E.* 870, Anzi *It. sup.* 130, *Schw. Krypt.* 59.
Ad cortices, ligna et saxa locis apertis, praecipue in cultis, valde copiosa; sylvas densiores fugit; altitudinem 1100 m. non superat. Var. *aureola* (Ach.) Fr., Nyl. l. c. p. 411 ad saxa, etiam ad sepes ligneas prope Genf (Müller, Rome). Var. *rutilans* (Ach. *L. U.* p. 415) Fr. *L. E.* p. 73 ad corticem Juglandis in Hb. Ach. adest.
- 303. P. ulophylla** (Wallr. *Flor. Germ.* III p. 517) Nyl. in

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Lamy *Cat.* p. 45. Syn. *P. fallax* Hepp *Fl. E.* 633 et
P. parietina v. *sorediosa* Nyl. *Lux.* p. 366.

Ad muros prope Valettes supra Martigny (Müller).

- 304. *P. polycarpa*** (Ehrh. *Pl. Cr.* 137, Nyl. *Syn.* I p. 411)
id. in Lamy *Cat.* p. 45, Hepp *K. Z.* 76, id. *Fl. E.* 54,
Anzi *Lang.* 506.

Ad arborum truncos et ramos: Zürich ad Thujam
(Hepp), Val Fraèle ad Larices (Anzi), in monte
Salève (Rome).

- 305. *P. lychnea*** (Ach. *Meth.* p. 187) Nyl. *Scand.* p. 107,
Hepp *K. Z.* 77, 78, id. *Fl. E.* 871, Rbh. *L. E.* 161,
Krypt. Bad. 135, *Schw. Krypt.* 154, Anzi *Lang.* 255 p. p.

Ad arborum truncos locis apertis, rarius ad ligna
et saxa muscis vestita: Konstanz (Stizenberger),
St. Gallen (Wartmann), Zürich (Hepp), Tarasp
(Jack), Veltlin (Anzi), Genf (Müller), Varallo,
Riva, Carcoforo (Baglietto-Carestia). Var. *laciniosa*
(Schaer. *En.* p. 51 non Duf.) Hepp *Fl. E.* 872,
Schaer. *Fl. E.* 381, Anzi *Lang.* 255 p. p., 296, 541
ad arborum truncos in regionibus campestribus et
alpinis locis apricis: Konstanz (Stizenberger), Zürich
(Hepp), Veltlin (Anzi), Bern, Hogant, Susten,
Grimsel, in valle Öschenen et in montibus Jurae
(Schaerer), prope Varallo, Carcoforo et Riva in
Valsesia (Baglietto-Carestia), prope Genf (Müller).
Var. *fulva* (Hffm. *D. Fl.* II p. 159) Hepp *Fl. E.* 873
Anzi *Lang.* 58, Schaer. *L. H.* 383, 549 p. p. ad
arborum cortices et sepimenta lignea prope Belp
et in Oberengadin (Schaerer), circa Bormio (Anzi),
Salève (Müller).

- 306. *P. contortuplicata*** (Ach. *Syn.* p. 210) Nyl. *Scand.* 107.
Ach. l. c. eam pro Helvetia indicat. Circa Bormio in

Piatta, Premadio et in alpe Rezzola 1300—2200 m.; supra saxa calcaria sterilem detexit Anzi (Symb. p. 6).

- 307. P. ciliaris** (L. *Spec.* p. 144) DC. *Fl. Fr.* 2 p. 596, Nyl. *Syn.* I p. 414, Schaer. *L. H.* 388, Hepp *K. Z.* 13, id. *Fl. E.* 168, Anzi *Lang.* 258, *Krypt. Bad.* 30, *Schw. Krypt.* 55, *Erb. critt.* 1162.

Ad arborum truncos et saxa locis apertis in regionibus campestribus et subalpinis frequens. In regione alpina prope hospitium in Valdobbia legerunt Baglietto-Carestia. Var. *crinalis* (Schleich. *Cat.*) Schaer. *En.* p. 10, Anzi *Lang.* 258 b ad arborum ramos, terram turfosam et saxa in Rhaetia (Theobald, Killias, Anzi), prope Bremgarten (Schaerer), in Jurae montibus Chasseron (Lesquereux) et l'Isle (Müller), in Valisia (Schleicher, Müller). Var. *Boryi* (Fée) Nyl. l. c., Anzi *Lang.* 258 c ad ramos Laricis et terram turfosam in sylva Campello supra Bormio cum varietate priore (Anzi).

- 308. P. leucomela** (L. *Spec.* p. 1613) Mich. *Fl. Borr.-Am.* 2 p. 356, Nyl. *Syn.* I p. 414.

Ad truncos *Abietis excelsae* vetustos 20—30 m. supra terram in sylvis prope Oberuster (Hegetschweiler jr.).

- 309. P. speciosa** (Wulf. in Jacq. *Coll.* 3 p. 119) Fr. *L. E.* p. 80, Nyl. *Syn.* I p. 416, Schaer. *L. H.* 357, Hepp *K. Z.* 55, Anzi *Lang.* 56.

Ad truncos arborum, saxa et muscos locis apertis, praesertim in regionibus montanis: Konstanz (Stizenberger), Ütli et Erlenbacher Tobel prope Zürich (Hepp), prope Riffersweil (Hegetschweiler), Veltlin (Anzi), Puschlav (Killias), prope Tarasp (Jack), Intschi, Altorf, Wänglisalp, Maderanerthal (Gisler), prope Bern, Kehrsatz, Bremgarten, in Emmen-

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thal, in monte Cenere (Schaerer), prope Locarno (Daldini), in Val Intrasca (Baglietto), in Valsesia (Baglietto-Carestia).

- 310. P. pulverulenta** (Schreb. *Spic.* p. 128) Fr. *L. E.* p. 79, Nyl. *Syn.* I p. 419, Schaer. *L. H.* 356, Hepp *K. Z.* 50, id. *Fl. E.* 874, Anzi *It. sup.* 122, 123.

Ad arborum truncos locis apertis in regionibus campestribus, culta amans. Var. *angustata* (Hffm. *En.* p. 71) Nyl. l. c., Hepp *K. Z.* 52 ad arborum truncos vulgaris. Var. *detersa* Nyl. *Syn.* I p. 420, Anzi *Lang.* 54 A in sylvis Coniferarum circa Bormio (Anzi) et Riva (Baglietto-Carestia). Var. *turgida* Schaer. *En.* p. 38, Hepp *K. Z.* 53 ad arborum truncos circa Bern (Schaerer), Zürich (Hepp), Genf (Reuter). Var. *lilacina* (Arn. in *Flora* 1863 p. 589) Müll.-Arg. *Val.* p. 9 ad saxa prope Mor-nex et in valle Rhodani inter Brieg et Naters (Müller).

- 311. * P. pityrea** (Ach. *Prodr.* p. 124) Nyl. *Prodr.* p. 62, id. *Syn.* p. 420, id. in Lamy *Cat.* p. 47, Schaer. *L. H.* 487, Hepp *K. Z.* 51, id. *Fl. E.* 876, *Krypt. Bad.* 535, Rbh. *L. E.* 587, *Schw. Krypt.* 58, Anzi *Lang.* 508.

Ad arborum truncos praecipue in cultis et turfosis: Konstanz (Stizenberger), Zürich (Hepp), Veltlin et ager Bormienseis (Anzi), Genf (Müller), Riva (Baglietto-Carestia).

- 312. * P. muscigena** (Whlhb. *Fl. Lapp.* p. 422) Nyl. *Prodr.* p. 62, Schaer. *L. H.* 486, Hepp *Fl. E.* 875, Anzi *Lang.* 54 B.

Supra muscos in alpinis: Rhaetia (Hepp, Brügger, Anzi), Goldau (Harz), Pilatus (Hepp, Sickenberger-Solms), Rossberg, Rophaien, Fisentergrat (Gisler),

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Gemmi, St. Bernhard (Schaerer), Valsesia (Baglietto-Carestia) et in monte Reculet (Müller).

- 313.** * *P. venusta* (Ach. *Meth.* p. 211) Nyl. *Syn.* p. 421, id. *Scand.* p. 110.

Ad arborum truncos: Schaeenthal, Schattdorf (Gisler), Genf (Müller), in horto arcis regiae Hofen prope Friedrichshafen copiosa (Stizenberger).

- 314.** *P. stellaris* (L. *Fl. Suec.* No. 1082) Fr. *L. E.* p. 82, Nyl. *Scand.* p. 111, Hepp *K. Z.* 57, id. *Fl. E.* 878, Anzi *It. sup.* 117.

Ad cortices rarius ad saxa. Ibidem var. *leptalea* (Ach. *Meth.* p. 198) Nyl. in *Flora* 1870 p. 38, Schaer. *L. H.* 349, 562, Hepp *K. Z.* 58, Anzi *It. sup.* 118, 121. *F. megalocarpa* Müll.-Arg. in *Flora* 1872 p. 465 ad Fagos in monte Reculet (Müller).

- 315.** * *P. tenella* (Scop. *Carn.* p. 1406) Nyl. in *Flora* 1873 p. 67, Schaer. *L. H.* 352, Hepp *K. Z.* 59, id. *Fl. E.* 879, *Schw. Krypt.* 560, *Krypt. Bad.* 536, Rbh. *L. E.* 378, Anzi *It. sup.* 119.

Regiones campestris cultas praeamat, in alpibus quoque viget.

- 316.** * *P. albinea* (Ach. *Syn.* p. 207) Nyl. in *Flora* 1872 p. 426, Anzi *It. sup.* 121, *Erb. critt.* 831.

Ad saxa varia in alpibus (Anzi, Schleicher, Carestia, Müller).

- 317.** * *P. aipolia* (Ach. *Prod.* p. 112) Nyl. in Norrl. *Tavast.* p. 180, Schaer. *L. H.* 350 p. p., Hepp *K. Z.* 56, id. *Fl. E.* 877, *Erb. critt.* 1115.

Iisdem locis ut prior.

- 318.** *P. tribacia* (Ach. *L. U.* p. 415) Nyl. in *Flora* 1874 p. 307.

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Ad truncos *Populi italici* et *Pyri communis* prope Konstanz (Stizenberger).

- 319. P. astroidea** (Clem. *Ens.* add. p. 302) Fr. *L. E.* p. 81, Nyl. *Syn.* p. 426.

Ad cortices circa Como (Anzi), prope Trobaso in valle Intrasca (Baglietto) et ad ramos Pini prope Vernier (Rome).

- 320. P. caesia** (Hffm. *Pl. lich.* t. 8 f. 1) Fr. *L. E.* p. 85, Nyl. *Scand.* p. 112, Schaer. *L. H.* 347, 348, Hepp *K. Z.* 61, Anzi *Lang.* 312.

Ad saxa, ligna, terram, muscos a planitie usque in regiones nivium aeternarum ascendens: Konstanz (Stizenberger), Churwalden 2000 m. (Brügger), Churer Joch (Theobald), Nairs (Killias), Grosse Mythe (Harz), montes Urnenses (Gisler), in Vallesia (Baglietto-Carestia), Genf (Müller). Var. *teretiuscula* (Ach. *L. U.* p. 479) Nyl. l. c., *Syn. P. pulchella* var. *atrocinerea* Schaer. *En.* p. 41 ad saxa alpium circa Bormio (Anzi), in summo monte Piz Ot 3249 m. (Brügger), in vallibus Bedretto et Lauterbrunnen (Schaerer), ad saxa erratica montis Salève (Müller).

- 321. P. obscura** (Ehrh. *Pl. Cr.* 177) Fr. *L. E.* p. 84, Nyl. *Scand.* p. 112, Schaer. *L. H.* 354 p. p. 609, Hepp *K. Z.* 47 p. p., id. *Fl. E.* 597, Anzi *It. sup.* 126.

Ad cortices et ligna praesertim in regionibus campestribus. Var. *orbicularis* (Neck. *Meth.* p. 88) Schaer. *En.* p. 37, Anzi *Lang.* 239 cum priore, etiam in montes ascendens. Var. *chloantha* (Ach. *Syn.* p. 217) Nyl. l. c., Schaer. *L. H.* 353, 354 p. p., Hepp *Fl. E.* 596, Anzi *It. sup.* 124, 125 ad cortices locis apertis planitiei. Var. *virella*

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(Ach. *Syn.* p. 191) Nyl. l. c., Schaer. *L. H.* 607, Hepp *K. Z.* 48, id. *Fl. E.* 597 p. p., 599 ad cortices praesertim in regionibus campestribus.

- 322. P. lithotea** (Ach. *Syn.* p. 217) Nyl. in *Flora* 1877 p. 354, Schaer. *L. H.* 355 p. p. 485, Hepp *K. Z.* 47 p. p., id. *Fl. E.* 598.

Ad saxa. Var. *sciastra* (Ach. *L. U.* p. 471) Nyl. *Scand.* p. 112, Anzi *It. sup.* 128 ad saxa locis umbrosis montium. Var. *sciastrella* Nyl. in *Flora* 1877 p. 354 ad corticem *Salicis albae* prope Konstanz (Stizenberger). Var. *muscicola* Schaer. *Spic.* p. 442 ad terram muscis instratam in alpibus. Var. *subnigricans* Müll.-Arg. in *Flora* 1874 p. 331 saxicola in valle de Bagnes Valisiae (Müller).

- 323. P. endococcinea** (Krb. *Pg.* p. 36) Nyl. in *Flora* 1877 p. 354 unacum var. *venusta* Bagl. in *Comm. critt. it.* I p. 299.

Ad saxa micaschistosa prope Varallo et Riva (Baglietto-Carestia).

- 324. P. endochrysea** (Hampe, Nyl. *Syn.* I p. 427) id. in *Flora* 1875 p. 442, Anzi *Lang.* 55.

Ad muscos locis sylvaticis agri Bormienseis (Anzi).

- 325. P. ulothrix** (Ach. *Prodr.* p. 113) Nyl. in *Flora* 1875 p. 860, Hepp *K. Z.* 47 p. p., id. *Fl. E.* 597 p. p., Anzi *It. sup.* 127.

Ad arbores planitiei et montium.

- 326. P. nigricans** (Flk. *D. L.* 68, 91), Hepp *K. Z.* 54, id. *Fl. E.* 600.

Ad cortices arborum in regione campestri.

- 327. P. adglutinata** (Flk. in Moug. *St. Vog.* 543) Nyl. in *Flora* 1862 p. 355, Hepp *K. Z.* 46, id. *Fl. E.* 374, Schw. *Krypt.* 259., Rbh. *L. E.* 687.

(Physcia)

Ad cortices arborum in regionibus campestribus et montanis. (Var. *subvirella* Nyl. in *Flora* 1873 p. 206, Anzi *Lang.* 373 in Langobardia).

328. P. setosa (Ach. *Syn.* p. 103) Nyl. *Syn.* I p. 429, Anzi *Lang.* 57.

Locis rupestribus granitosis montium in Veltlin (Anzi).

Trib. XV. — GYROPHOREI.

I. — Umbilicaria (Hffm.) Nyl.

329. U. pustulata (L. *Spec.* p. 1150) Hffm. *Pl. lich.* t. 28, 29 f. 4, Nyl. *Scand.* p. 113, Schaer. *L. H.* 156, Hepp *Fl. E.* 118, Anzi *Lang.* 297, *Schw. Krypt.* 561.

Ad saxa praesertim granitica in regionibus campestribus et alpinis, etiam ad radicem montis Jurae.

330. U. atropruinosa Schaer. in *Ser. Mus. Helv.* 1 p. 109, Nyl. *Scand.* p. 113, Schaer. *L. H.* 155, Hepp *Fl. E.* 721, Rbh. *L. E.* 552.

Ad saxa granitica summarum alpium: in monte Braulio (Anzi), St. Moritz (Hepp), Furka, Susten, Badus (Gisler), Grimsel (Schaerer), Monte Rosa (Carestia), Simplon prope hospitium (Baglietto), Valdobbia prope hospitium (Baglietto-Carestia).

II. — Gyrophora Ach., Nyl.

331. G. cinerascens (Ach. *Syn.* p. 64, Nyl. in *Flora* 1869 p. 388) Arn. *Tir.* XIV p. 52, Schaer. *L. H.* 154, Hepp *Fl. E.* 479, 720, Anzi *Lang.* 59, *Erb. critt.* 424.

Ad rupes graniticas in summis alpibus: St. Moritz (Hepp), Bernina, Veltlin, ager Bormiensis, Chia-

(Gyrophora)

venna, Puschlav (Anzi), Parpan, Graue Hörner (Theobald), Rieselenpass (Brügger), Hospenthal, Furka (Gisler), Grimsel (Schaerer), Valdobbia (Carestia), Catogne (Müller). Var. *microphylla* (Laur. in Sturm *D. Fl.* 24 Taf. VI) Nyl. l. c., Schaer. *L. H.* 466, Rbh. *L. E.* 355, Anzi *Lang.* 66 ad saxa granitica: Piz Albris, Languardthälchen (Metzler), alpes Bormienses, Bergell (Anzi), Valdobbia (Carestia), in Monte Rosa et in monte Olen (Baglietto-Carestia), supra Schwarzsee in valle Zermatt (Schaerer), prope Catogne (Müller).

- 332. *G. reticulata*** (Schaer. in Ser. *Mus. Helv.* 1 p. 109, Nyl. in *Flora* 1869 p. 389) Fr. fil. *Scand.* p. 166, Anzi *It. sup.* 80, *Erb. critt.* 125, Rbh. *L. E.* 424.

An rupes graniticas summarum alpium: in Rhaetia (Theobald, Anzi), prope hospitium in Valdobbia et in cacumine montium Karrhorn et Rossa (Carestia), Monte Rosa (Giordani-Verno), Schreckhorn (Desor), Jungfrau (Agassiz), Spitzliberg et Furkahorn (Gisler), in summo Aletschhorn (Brun) et Schwarzhorn supra Tourtemagne (Bader, Privat). Secundum Nyl. *Scand.* p. 114 etiam forma nigrescens intermedia inter hanc et *proboscideam* in Helvetia adest.

- 333. *G. spodochoa*** (Hffm. *D. Fl.* II p. 113) Ach. *Meth.* p. 108, Nyl. in Norrl. *H. L. F.* 89.

Typica in agro Helvetico deesse videtur. Var. *mammulata* (Ach. *Syn.* p. 67) Nyl. in *Flora* 1869 p. 389, Schaer. *L. H.* 162, Hepp *Fl. E.* 307 ad saxa granitica in alpiibus et in monte Salève (Müller).

- 334. *G. crustulosa*** Ach. *L. U.* p. 673, Nyl. in *Flora* 1877

(Gyrophora)

p. 232, Schaer. *L. H.* 138 p. p., Anzi *It. sup.* 82, *Erb. critt.* 839.

Ad saxa granitica alpium. Var. *saccata* (DC. *Fl. fr.* II p. 408), Syn. *U. depressa* Aut. p. p., Schaer. *L. H.* 137, Hepp *Fl. E.* 117, Anzi *It. sup.* 83, 84, *Schw. Krypt.* 459, *Krypt. Bad.* 674, Rbh. *L. E.* 358, 790 in alpibus graniticis.

G. depressa Ach. *L. U.* p. 673, Nyl. in *Flora* 1877 p. 232 teste Nylander (l. c.) in alpibus Europae mediae vigens, pro Helvetia adhuc desideratur.

- 335. *G. vellea*** (L. *Spec.* p. 1150) Ach. *Meth.* p. 109, Nyl. *Scand.* p. 114, id. in *Flora* 1869 p. 389, Schaer. *L. H.* 138 p. p., 139 p. p., 141, Hepp *Fl. E.* 306, Anzi *Lang.* 61, *Schw. Krypt.* 356, *Erb. critt.* 839.

Ad saxa granitica supra regionem Fagi frequens; raro cum fructibus.

- 336. *G. hirsuta*** Ach. *L. U.* p. 230, Nyl. in Norrl. *H. L. F.* 257, Schaer. *L. H.* 140, Rbh. *L. E.* 813, Anzi *Lang.* 62.

Ad rupes graniticas praesertim in zonis Abietis et Mughi, raro fertilis.

- 337. *G. murina*** Ach. *Meth.* p. 110, Nyl. *Scand.* p. 116, Anzi *Lang.* 63.

Ad rupes graniticas rara: in vallibus Bormiensibus et prope Vico-Soprano, ubi fructificat (Anzi).

- 338. *G. proboscidea*** (L. *Spec.* p. 1150) Ach. *Meth.* p. 105, Nyl. in Norrl. *H. L. F.* 254, Schaer. *L. H.* 148, Anzi *It. sup.* 77, *Erb. critt.* 1426.

Ad rupes imprimis graniticas in alpibus magis nivosis: Braulio et Trella prope Bormio (Anzi), Valdobbia, Valsesia (Carestia), Grimsel (Schaerer), in monte Schwarzhorn supra Tourtemagne (Bader).

(Gyrophora)

339. * **G. arctica** Ach. *Meth.* p. 106, Nyl. *Scand.* p. 116, Schaer. *L. H.* 556.

In alpibus Bormiensibus (Anzi).

340. **G. cylindrica** (L. *Spec.* p. 1144) Ach. *Meth.* p. 107, Nyl. *Scand.* p. 117, Schaer. *L. H.* 143—145, Hepp *Fl. E.* 719, Rbh. *L. E.* 356, Anzi *It. sup.* 73, *Erb. critt.* 40, *Schw. Krypt.* 458.

Ad saxa inprimis granitica alpium e regionibus superioribus (Matterhorn: Calberla) usque ad zonam Abietum descendens, species vulgatissima generis unacum var. *fimbriata* Ach. Nyl. l. c., Schaer. *L. H.* 146, Hepp *K. Z.* 36, Anzi *It. sup.* 74.

341. **G. tornata** Ach. *L. U.* p. 222, Nyl. *Scand.* p. 117, id. in *Flora* 1872 p. 549, Schaer. *L. H.* 147, Anzi *It. sup.* 75, id. *Lang.* 251 (*microphylla*).

Frequens ad rupes graniticas in alpibus editioribus; in montibus Matterhorn (Calberla) et Schwarzhorn supra Toutemagne (Privat).

342. **G. erosa** (Web. *Spic.* p. 259) Ach. *Meth.* p. 103, Nyl. *Scand.* p. 118, Schaer. *L. H.* 153.

Ad saxa granitica summarum alpium minus frequens: in alpibus Cerdecco et Cristallo prope Bormio (Anzi), Göschenenalp, Stelliboden, Bristen (Gisler), Grimsel (Schaerer).

G. torrida (Ach. *Meth.* p. 104) Nyl. in Norrl. *H. L. F.* 91 Helvetiae vix desit.

243. **G. hyperborea** Ach. *Meth.* p. 104, Nyl. in Norrl. *H. L. F.* 255, Schaer. *L. H.* 150, 151, Hepp *Fl. E.* 116, Anzi *It. sup.* 78, *Erb. critt.* 1167, *Schw. Krypt.* 668.

Ad saxa granitica usque ad summa alpium cacumina, etiam ad radicem Jurae.

344. **G. flocculosa** (Wulf. in Jacq. *Coll.* III p. 99) Krb. *S. L. G.*

(Gyrophora)

p. 95, Nyl. in Norrl. *H. L. F.* 90, Schaer. *L. H.* 152, Hepp *K. Z.* 37, id. *Fl. E.* 115, Rbh. *L. E.* 357, Anzi *Lang.* 60, id. *It. sup.* 81, *Erb. critt.* 425.

Ad saxa granitica in regionibus montanis et alpinis locis praesertim humidis, etiam ad radicem Jurae. Semel Schaerer eam in arboris trunco emortuo prope inferiorem molem glaciale Arolae legit. Var. *cribrata* (Müll.-Arg. *Genev.* p. 29) ab autore ad saxa erratica montis Salève lecta a typo non recedit.

345. G. polyphylla (L. *Spec.* p. 1150) Krb. *S. L. G.* p. 95, Nyl. in Norrl. *H. L. F.* 92, Schaer. *L. H.* 149, Hepp *Fl. E.* 717, Anzi *It. sup.* 79.

Ad saxa granitica alpium e regione montana in nivisam progrediens et ad radicem Jurae. Var. *plicata* Müll.-Arg. in *Flora* 1872 p. 534 ad saxa siderolithica montis Salève (Müller).

346. G. corrugata (Ach. *L. U.* p. 219) Nyl. *Scand.* p. 119 sub *Umbilicaria*.

In montibus Weismies vallis Saas 4000 m. (Wolf) et Schwarzhorn supra Tourtemagne (Privat).

G. polyrrhiza (L. *Spec.* p. 1151) Krb. *Pg.* p. 41, Nyl. in Norrl. *H. L. F.* 94 in Helvetia desideratur.

Trib. XVI. — PANNARIEI.

Subtr. I. — Praepannariei.*

I. — **Pannaria** Del., Nyl.

347. P. rubiginosa (Thunb. *Prodr. Cap.* p. 176) Del. in *Dict. class.* XIII p. 20, Nyl. *Scand.* p. 122 var. *conoplea*

* *Coccocarpia plumbea* (Lightf. *Scot.* p. 826) Nyl. *En.* p. 109, id. *Scand.* p. 128 „ad truncos arborum prope Chur“ (Theobald) valde dubia.

(Ach. *L. U.* p. 467) Fr. *L. E.* p. 88, Nyl. l. c., Schaer. *L. H.* 369, Hepp *K. Z.* 43, id. *Fl. E.* 607, Anzi *It. sup.* 151.

Ad saxa et arborum truncos locis umbrosis in regionibus montanis: Veltlin, Val S. Giacomo (Anzi), Val Tasna, Puschlav (Killias), Bergell (Theobald), Albis (Hepp), Mettmensstetten (Hegetschweiler jr.), Amsteg, Seedorf et Schattdorf (Gisler), Valsesia (Baglietto-Carestia), Val Intrasca (Baglietto), Neuchâtel (Chaillet), St. Nicolas in Valisia (Müller), in valle Servan (Schleicher), in monte Jura supra Gex (Müller, Guinet) et prope Pringy (Puget).

- 348. P. brunnea** (Sw. in *N. Act. Ups.* V p. 247) *Mass. Ric.* p. 113 p. p., Nyl. *Scand.* 123, Schaer. *L. H.* 160, Hepp *Fl. E.* 174, Anzi *It. sup.* 152.

Ad terram, truncos demortuos, muscos et herbas destructas e regione montana in nivisam progrediens.

Var. *coronata* (Ach. *Prodr.* p. 75 non Flk.) Nyl. l. c. p. 124, Anzi *It. sup.* 153 iisdem locis.

- 349. P. nebulosa** (Hffm. *D. Fl.* II p. 166) Nyl. *L. P.* 114.
Supra terram in monte Salève (Rome).

- 350. P. leucolepis** (Whlbn. *Fl. Lapp.* p. 420) Nyl. *Scand.* p. 123, Anzi *Lang.* 27, *Erb. critt.* 1222.

In rupium granitosarum fissuris humidis terra tenui vel muscis putridis obtectis regionum nivisarum et glacialium: in alpibus editissimis Bormiensibus Zebrù, Vallacetta, Plesaccia (Anzi), in alpibus Rizzola et Tagliaferro (Baglietto-Carestia).

- 351. P. leucosticta** Tuck. *Obs. lich.* p. 404, Nyl. *Lapp.* p. 125, Anzi *Lang.* 429, *Erb. critt.* 1018.

Ad truncos Castanearum in regione montana fastigii meridiani alpium: Val Plafna (Killias), circa Como (Anzi), Val Intrasca (De Notaris).

(Pannularia)

II. — **Pannularia** Nyl. in *Flora* 1879 p. 360.

352. **P. lepidiota** (Smmrf. *Lapp.* p. 174, Nyl. *Scand.* p. 290), Anzi *Lang.* 87.

Ad terram et saxa cum granitosa tum calcaria zonam arboream superans: St. Moritz (Hepp), Bormio (Anzi), Tarasp (Jack), in montibus Tagliaferro (Baglietto-Carestia) et Salève (Müller).

353. **P. microphylla** (Sw. in *V. Ak. H.* 1791 p. 301, Nyl. *Scand.* p. 124), Schaer. *L. H.* 161, Hepp *K. Z.* 159, id. *Fl. E.* 608, Anzi *It. sup.* 150.

Ad rupes umbrosas arenarias, granitosas, micaceas e regione campestri in nivosam ascendens. Var. *turgida* Schaer. *En.* p. 98 ad saxa micacea in Bois de Göre Valisiae inferioris (Schaerer), Salève (Müller). Var. *epigaea* Schaer. *En.* p. 99 ad terram turfosam in vallibus Oberengadin et Livigno (Theobald).

354. **P. triptophylla** (Ach. *Syn.* p. 53, Nyl. *Prodr.* p. 67, id. *Scand.* p. 125), Schaer. *L. H.* 159, Hepp *Fl. E.* 610, *Schw. Krypt.* 562, Anzi *Lang.* 313.

Ad corticem arborum vetustiorum (Quercuum, Salicum, Sorbi, Alni, Abietum) rarius fruticum necnon ad terram et rupes umbrosas praesertim micaceas et graniticas regionis campestris et alpinae: Trinser See, Mittenberg (Theobald), Veltlin, Bormio (Anzi), Altorf, Schattdorf, Maderaner-, Brunnithal, Petersinsel (Schaerer), Neuchâtel (Chaillet), Genf (Müller). Var. *Xamia* Mass. *Ric.* p. 11 ad Castanearum truncos prope Varallo sterilis (Baglietto-Carestia).

355. **P. nigra** (Huds. *Fl. Angl.* p. 524, Nyl. *Scand.* p. 126).

(Pannularia)

Schaer. *L. H.* 226, Hepp *K. Z.* 160, id. *Fl. E.* 9, *Schw. Krypt.* 175, *Krypt. Bad.* 841, Anzi *It. sup.* 9.

Ad saxa arenaria et calcaria planitiei, alpium et montis Jurae frequens. *F. fusca* Hepp *Fl. E.* 10 ad muros arenaceos prope Zürich (Hepp). *F. Tantalea* Hepp *Fl. E.* 276 ad saxa erratica immersa prope Zürich (Hepp) et Mornex (Müller). *F. Tremniaca* (Mass. *Mem.* p. 134) ad saxa in summo monte Salève (id.).

- 356. *P. muscorum*** (Ach. *Syn.* p. 193, Del. in *Dict. Class.* XIII p. 20, Nyl. *Scand.* p. 127), Schaer. *L. H.* 482, Anzi *Lang.* 86.

Ad saxa et terram in alpibus granitosis et calcariis: Aschera (Killias), Calanda et Davoser Seehorn (Theobald), Veltlin (Anzi), St. Moritz (Hepp), Pilatus (Hegetschweiler), in sylvis circa Gossau (Hegetschweiler jr.), Göschenalp (Gisler), in Sella della Monte prope Riva (Baglietto-Carestia).

III. — *Amphiloma* (Fr. p. p.) Nyl.

(Lichen incerti loci).

- 357. *A. lanuginosum*** (Ach. *Syn.* p. 201) Nyl. *Prodr.* p. 69, id. *Scand.* p. 129, Schaer. *L. H.* 378, Anzi *It. sup.* 149.

Ad umbrosa et rorida rupium latera a radice montium usque in regionem nivalem: prope Ardez (Killias), in monte Gurnigel, in Valsesia (Baglietto-Carestia) et in Bois de Göre Valisiae inferioris (Schaerer).

(Heppia)

Subtrib. II. — Heppiei.

I. — **Heppia** Naeg.

- 358. H. virescens** (Despr. in *Hb. Bor.*) Nyl. *En.* p. 110, Hepp *K. Z.* 34, id. *Fl. E.* 49.

Ad terram locis rupestribus: prope Bormio et in pago Uzza (Anzi), St. Moritz, Weggis, Rigistaffel, Hoherohne, Lägern (Hepp), prope Attinghausen (Gisler), prope Locarno (Daldini), prope hospitium in Valdobbia (Baglietto-Carestia), circa Genf et prope hospitium Monvoisin (Müller).

- 359. H. Guepinii** (Moug. in Fr. *L. E.* p. 410) Nyl. in *Flora* 1873 p. 200, Schaer. *L. H.* 598, Anzi *Lang.* 233.

Ad rupes praesertim calcarias montium in Veltlin (Anzi), in Valisia prope Naters (Schaerer), in monte Pilatus (Solms-Sickenberger), in valle Intrasca et prope Locarno (Baglietto), in Valsesia (Carestia).

- 360. H. turgida** (Ach. *Syn.* p. 103) Nyl. in *Flora* 1878 p. 339.

Ad terram limosam (Ach. l. c.).

Peltula Nyl. alterum Heppieorum genus extraneum sistit.

Trib. XVII. — LECANO-LECIDEEI.

Subtrib. I. — Lecanorei.

I. — **Solorinella** Anzi.

- 361. S. asteriscus** Anzi *Cat.* p. 37, Hepp *Fl. E.* 848.

Ad terram locis calidis rupestribus prope Madesimo in termino superiore Mughi (Anzi), in Lürlibad prope Chur (Theobald), prope Siders (Müller).

II. — *Lecanora* (Ach.) Nyl.

a. Stirps *L. hypnorum* (*Psoroma*).

- 362. *L. hypnorum*** (Hffm. *D. Fl.* II p. 166) Ach. *Syn.* p. 193, Nyl. *Lapp.* p. 125, Schaer. *L. H.* 546, Rbh. *L. E.* 215, Anzi *Lang.* 64.

Ad terram praesertim turfosam muscosque in alpidibus tam graniticis quam calcariis e regione Mughii in niviosam progrediens: Rhaetia (Theobald, Anzi), Grimsel, St. Bernhard (Schaerer), Simplon (Baglietto), Valsesia (Carestia). Var. *deaurata* Ach. *L. U.* p. 418, Nyl. *Scand.* p. 121, Anzi *Lang.* 65 *Erb. critt.* 469 in regione alpina ad terram turfosam et supra muscos: alpes Rhaeticae (Anzi), Valdobbia (Baglietto-Carestia).

- 363. *L. paleacea*** (Fr. *L. E.* p. 97, Nyl. *Scand.* p. 122).

In valle Lischanna prope Tarasp (Theobald).

b. Stirps *L. saxicolae* (*Squamaria*).

- 364. *L. crassa*** (Huds. *Fl. Angl.* p. 130) Ach. *L. U.* p. 413, Nyl. in *Flora* 1872 p. 554, Schaer. *L. H.* 343, Hepp *K. Z.* 88, Anzi *It. sup.* 155.

Ad terram, saxa et supra muscos locis apricis in regionibus calcariis: Schindellegi (Hepp), Veltlin (Anzi), Sitten, Leuck (Schaerer), in montibus Fenera supra Borgosesia (Baglietto-Carestia) et Salève (Müller). Var. *Dufourii* (Fr. *L. E.* p. 99) Nyl. *Scand.* p. 130, Anzi *Lang.* 97 ad terram in fissuris rupium calcariarum regionis montanae et alpinae: Veltlin (Anzi). Var. *periculosa* Del. *Hb.*, Nyl. *Scand.* p. 130, Anzi *Lang.* 98 ad saxa calcaria prope Bormio (Anzi).

(Lecanora)

- 365. L. gypsacea** (Sm. in *Trans. Linn. Soc.* 1 p. 81) Hepp *Fl. E.* 619, Nyl. in *Stzb. Hyperb.* p. 25, Schaer. *L. H.* 344, Anzi *It. sup.* 156, *Schw. Krypt.* 465.

In rupium calcariarum fissuris locis umbrosis et humidis alpium et Jurae e zona Abietum usque in regionem nivosa ascendens.

- 366. L. Lamarckii** (DC. *Fl. Fr.* 2 p. 372) Schaer. *En.* p. 57, id. *L. H.* 342, Hepp *Fl. E.* 618, Krb. *L. S. G.* 371.

Ad rupes calcarias in alpebus: Calanda, Lichtenstein, Luziensteig, Strela (Theobald), Churwalden (Brügger), Pilatus, Stockhorn, Suleck, Gemmi, Oeschenthal (Schaerer), Meyringen, Kandersteg (Metzler), Gand, Mettenthal (Gisler), Brezon (Reuter), Grand Muveran supra Bex (Müller), Panerossaz in Valisia (Schleicher).

- 367. L. lentigera** (Web. *Spic. Fl. Goett.* p. 192) Ach. *L. U.* p. 423, Schaer. *L. H.* 484, Hepp *Fl. E.* 179, Anzi *It. sup.* 154, *Schw. Krypt.* 261.

Ad terram et supra muscos locis apricis: Zollbrücke prope Chur, Calanda, Thusis (Theobald), Como (Anzi), Neuchâtel (Chaillet et Godet), Fully et St. Pierre (Schaerer), circa Genf (Müller), in Ticinorum monte Scopi (teste Schaerer).

- 368. L. chrysoleuca** (Sm. in *Act. Soc. Linn.* 1 t. 4 f. 2) Ach. *L. U.* p. 411, Schaer. *L. H.* 345, Hepp *Fl. E.* 176, Rbh. *L. E.* 175, 503, *Schw. Krypt.* 357, Anzi *It. sup.* 157a, *Erb. critt.* 731.

Supra saxa quartzosa et micacea aprica, rarius supra ligna ad meridionale latus per omne alpium jugum, interdum in zonam Fagi descendens: Rhaetia (Schaerer, Brunner, Hepp, Theobald, Anzi), Furka, Realp (Gisler), Gotthard, Simplon, St. Bernhard (Schaerer),

(Lecanora)

Riva in Valsesia (Rostan, Carestia), in alpi-
bus Bernensibus rara. Var. *complicata* (Ach. *L. U.*
p. 41, *Nyl. Scand.* p. 131) in alpi-
bus Bormiensibus (Anzi).

- 369. * L. subdiscrepans** (Nyl. in *Flora* 1861 p. 718 cum
qua identica sit var. *lecanorea* Anzi *Anal.* p. 9).

Ad saxa micaceo-schistosa in alpi-
bus prope Bormio
rara (Anzi). E Valisia eam distribuit Schleicher
sub nomine „*L. ocrinaeta* Ach.“

- 370. L. melanophthalma** (Ram. in DC. *Fl. Fr.* 2 p. 376, *Nyl.*
Scand. p. 131) Schaer. *L. H.* 346, Hepp *Fl. E.* 177,
Anzi *It. sup.* 157 b et *Lang.* 390.

Iisdem locis sicut *L. chrysoleuca*: Rhaetia (Hepp,
Anzi), Furkahorn (Gisler), in Monte Rosa, monte
Olen et in Valdobbia (Baglietto-Carestia).

„Apotheciis nigris est primaria *melanophthalma* DC., iis glau-
cescentibus est *glauca* Ach.“ *Nyl. Arm.* p. 396.

- 371. L. peltata** (DC. *Fl. Fr.* 2 p. 377) Fr. fil. *Scand.* p. 221,
Syn. Psoroma concinnum Bagl.-Car. in *Comm. Crit. It.* I
p. 439, id. *Anacr.* p. 183.

In alpi-
bus teste Nylander *Scand.* 132, ad rupes altae
Valdobbiae prope hospitium (Baglietto-Carestia).

- 372. L. dispersoareolata** (Schaer. *Spic.* p. 418, *Nyl. Scand.*
p. 132), Schaer. *L. H.* 333, Anzi *Lang.* 38.

Ad saxa micaceo-schistosa, serpentina et calcaria
montium editissimorum: Veltlin, Bormio (Anzi),
Piz Minschun (Killias), Gemmi, Scopi (Schaerer),
Brunnithal, Rosstock (Gisler), Riffel prope Zer-
matt (Jack, Metzler), supra Alagna (Baglietto-
Carestia), Dent du Midi (Cas. de Candolle).

- 373. L. saxicola** (Pollich *Pl. Pal.* p. 225) Ach. *L. U.* p. 231,

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Nyl. *Lapp.* p. 125, Schaer. *L. H.* 332, Hepp *K. Z.* 100, id. *Fl. E.* 899, *Schw. Krypt.* 462, Anzi *Lang.* 259.

Ad saxa varia, muros, rarissime ad ligna et muscos in regionibus campestribus et alpinis vulgatissima. F. *Garovaglii* (Krb. *Pg.* p. 54) Nyl. *Arm.* p. 379, Anzi *Lang.* 270 ad saxa granitosa necnon ad domorum lignearum trabes et tegulas nudaque Pinorum ligna circa Bormio (Anzi), circa Monte Rosa (Baglietto-Carestia), ad saxa locis calidioribus inter Bovernier et Sembrancher (Müller). Var. *diffracta* (Ach. *L. U.* p. 432) Nyl. *Scand.* p. 133, Anzi *Lang.* 269 ad saxa varia in alpibus: Bormio, Veltlin, Puschlav (Anzi), Tarasp (Jack), Gemmi (Schaeerer), Salève (Müller), in monte Olen (Baglietto-Carestia). Var. *versicolor* (Pers. in *Ust. N. Ann. Bot.* 1 p. 24) Nyl. *Scand.* p. 133, Schaer. *L. H.* 334, Anzi *Lang.* 41, 271, *Schw. Krypt.* 563 ad saxa calcaria prope Bormio (Anzi), in montibus Gemmi et Gantrisch (Schaeerer), Salève (Müller), prope Schaffhausen (Schenk), in valle d'Otro (Baglietto-Carestia). F. *areolata* Leight. in *Hb. Hepp* in monte Salève (Müller).

L. livida Ach. dubia stirps, in Helvetia ad saxa calcaria alpina, cf. Nyl. *Scand.* p. 133.

374. L. valisiaca (Müll.-Arg. *L. Val.* p. 9).

Ad saxa prope pontem Rhodani inter Brieg et Naters (Müller).

375. L. Reuteri Schaer. *En.* p. 59, id. *L. H.* 614, Hepp *Fl. E.* 643, *Schw. Krypt.* 671.

Ad rupes calcarias in montibus Reculet (Reuter), Grand Muveran supra Bex (Müller) et Pilatus (Laurer, Hepp), necnon circa Kandersteg (Metzler).

- 376. *L. pruinifera*** Nyl. *Lux.* p. 368, Syn. *L. cretacea* Müll.-Arg. in *Flora* 1867 p. 434.

Ad saxa calcaria montis Salève (Müller).

- 377. *L. subcandicans*** (Müll.-Arg. in *Flora* 1876 p. 529).

Ad saxa gneissica inter Lourtier et Fionay in valle de Bagnes (Müller).

- 378. *L. concolor*** Ram. in *Mem. Soc. Linn. Paris.* 4 p. 436, Anzi *Lang.* 39, Rbh. *L. E.* 964.

Ad saxa quartzosa et granitosa supra regionem Mughorum: Engadin (Hepp, Killias), Veltlin, Puschlav, Bormio (Anzi), Zermatt (Jack), ad saxa formationis „Nummulithenkalk“ dictae in Urirothstock (Gisler), circa Riva (Baglietto-Carestia), in summo Monte Rosa (Wolf, Verno-Giordani), Distelgrat (Brun), in summo Dent du Midi (Chavel). Var. *angusta* Arn. *Tir.* XIII p. 4 in Monte Rosa (Verno-Giordani, Wolf), Distelgrat (Brun), Dent du Midi (Chavel) et in pede montis Schwarzhorn (Privat). Var. *subeffusa* Nyl. in *Bull. Soc. Bot. Franc.* 1863 p. 261 in monte Weissmies (Wolf).

- 379. *L. fulgens*** (Sw. in *Nov. Act. Ups.* IV p. 246) Ach. *L. U.* p. 437, Nyl. *Scand.* p. 137, Schaer. *L. H.* 339, Hepp *Fl. E.* 194, Schw. *Krypt.* 260.

Ad terram calcariam locis apricis.

- 380. *L. bracteata*** (Hffm. *D. Fl.* II p. 169, Ach. *L. U.* p. 438, Nyl. *Scand.* p. 137) id. in *lit.*, Schaer. *L. H.* 340, Anzi *Lang.* 99.

Ad terram sabulosam calcariam locis apricis in Helvetia australi: Valisia (Schaerer, Müller, Wolf), prope Madesimo in termino superiore Mughorum (Anzi), circa hospitium in Valdobbia, in monte Olen et in valle d'Otro (Baglietto-Carestia).

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c. Stirps *L. murorum* (*Placodium*).

- 381. *L. elegans*** Ach. *L. U.* p. 435, Nyl. *Lapp.* p. 126, Schaer. *L. H.* 338, 545, Hepp *K. Z.* 83, id. *Fl. E.* 195, Anzi *It. sup.* 133, Schw. *Krypt.* 460, Erb. *critt.* 835, Rbh. *L. E.* 487.

Ad saxa varia et trabes in regionibus campestribus et praesertim alpinis (Matterhorn: Calberla). Var. *tenuis* (Whlnb. *Lapp.* p. 417, Ach. *Syn.* p. 183) Nyl. *Scand.* p. 137, Schaer. *L. H.* 481, Hepp *Fl. E.* 906 ad rupes micaceo-schistosas inter vallem Bergell et alpes Savogno (Anzi), prope Parpan, Tuors, Küblis (Theobald), Piz Ott (Brügger), in cacumine montes Jungfrau (Agassiz), ad saxa granitica circa Genf (Müller), propo Madonna del Rumore in valle Mastalone (Baglietto-Carestia) et in monte Matterhorn (Calberla). Formam granulosam Schaerer (*En.* p. 52) semel ad saxa calcaria supra Bergün in Rhaetia legit. Var. *musciicola* Müll.-Arg. in *Flora* 1872 p. 466 in monte Reculet (Müller).

- 382. *L. granulosa*** (Müll.-Arg. *Genev.* p. 40) Nyl. in *lit.*, Hepp *Fl. E.* 908.

Ad saxa calcaria in monte Salevula (Müller).

- 383. *L. murorum*** (Hffm. *En.* p. 63) Ach. *L. U.* p. 433, Nyl. *Lux.* p. 366, Schaer. *L. H.* 479, Hepp *K. Z.* 95, id. *Fl. E.* 196 p. p.

Ad muros, saxa varia et tegulas lateritias in regionibus campestribus et alpinis. Var. *gyalolechioioides* Müll.-Arg. in *Flora* 1867 p. 434 in Salevulae saxosis calcariis. Var. *lobulata* (Smmrf. *Suppl.* p. 87) Nyl. *Scand.* p. 136, Anzi *Lang.* 275a ad saxa duriora a planitie in regiones nivasas ascen-

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dens. Var. *miniata* (Hffm. *En.* p. 62) Nyl. l. c., Anzi *Lang.* 275 b ad rupes apricas alpium et in monte Salève (Müller). Var. *obliterata* (Pers. in Ust. *N. Ann.* V p. 15) Nyl. *Nov. Gran. Add.* p. 540, Hepp *K. Z.* 98, id. *Fl. E.* 71 ad saxa gneissica, micaceo-schistosa et serpentina a planitie in regionem niviosam ascendens; raro lignicola.

Anzi *Lang.* 29 (spora 12 μ l., 7—8 μ cr.) teste Nyl. *L. murorum* minor.

L. isabellina (Krb. in *Hb. Metzl.*) ad saxa granitica prope Gornergletscher Valisiae (Metzler) species est valde suspecta.

384. * **L. pusilla** (Mass. in *Flora* 1852 p. 567) Rich. *Deux-Sèvres* p. 23, Nyl. in Norrl. *H. L. F.* 381, Hepp *Fl. E.* 397, Anzi *Lang.* 391, 30 (*miniata*).

Ad saxa praesertim in alpibus. Var. *dispersa* (Bagl.-Car. *Anacr.* p. 190) in monte Tagliaferro (Baglietto-Carestia).

Sporae *L. pusillae* 9—14 μ l., 4—5 μ cr., ergo multo tenuiores quam in specie praecedente.

385. * **L. decipiens** (Arn. in *Flora* 1866 p. 529) Nyl. in Wainio *Viborg.* p. 54, Hepp *Fl. E.* 196 p. p.

Forma xylophila ad ligna fabrefacta vetusta prope Zürich (Hepp) et Konstanz (Stizenberger) viget.

386. **L. cirrochroa** Ach. *Syn.* p. 181, Nyl. *Lapp.* p. 126, Schaer. *L. H.* 480, Hepp *Fl. E.* 398, Anzi *Lang.* 31.

Ad rupes varias, muros et corticem Pini in regionibus campestribus et alpinis: circa Bormio et in Veltlin (Anzi), Baden, Lägern (Hepp), Altorf (Gisler), vallis Lauterbrunnen, Kandersteg, Interlaken, Meyringen (Metzler), in monte Reculet (Reuter), prope Martigny (Schaerer), prope Riva et in valle Mastalone (Baglietto-Carestia).

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- 387. L. obliterans** Nyl. in *Flora* 1874 p. 7, Anzi *Lang.* 316 dextr.

Ad saxa umbrosa calcis primitivae prope Bormio (Anzi).

- 388. L. callopisma** Ach. *L. U.* p. 437, Nyl. *Lux.* p. 366, Arn. *Exs.* 488.

Ad calcem in radice montis Salève, prope Martigny et Sembrancher (Müller), Buchthalen prope Schaffhausen (Schenk).

- 389. * L. sympagea** (Ach. *Prodr.* p. 105) Nyl. in *Flora* 1873 p. 197, Hepp *K. Z.* 93, id. *Fl. E.* 197, Anzi *It. sup.* 134, Rbh. *L. E.* 671.

Ad muros saxaque calcaria planitiei vulgaris; alpes fugere videtur.

- 390. L. teicholyta** Ach. *L. U.* p. 425, *Krypt. Bad.* 532, Rbh. *L. E.* 707.

Ad tegulas lateritias prope Konstanz (Stizenberger). Ibidem necnon prope Zürich (Hepp) et in Vallesia (Baglietto-Carestia) ad muros arenaceos forma ecrustacea (*Placodium arenarium* Hepp *K. Z.* 237, id. *Fl. E.* 199) adest.

- 391. L. Lallavei** (Clem. *Ens.* p. 297) Nyl. *Prodr.* p. 77.

Ad saxa calcaria: St. Bernhard (Hegetschweiler).

d. Stirps *L. cerinae*.

- 392. L. citrina** Ach. *Syn.* p. 176, Nyl. *Scand.* p. 136, Hepp *K. Z.* 97 sin., id. *Fl. E.* 72 dextr. p. p., 394, Anzi *Lang.* 32.

In basi murorum ad lapides, tegulas lateritias et caementum.

- 393. L. incrustans** (DC. *Fl. Fr.* 2 p. 361) Ach. *L. U.* p. 405, Nyl. in *Flora* 1878 p. 340, Hepp *Fl. E.* 72 dextr. p. p.

Saxicola in Valisia (Schleicher), ad muros humidos prope Zürich (Hepp).

- 394. L. aurantiaca** (Lightf. *Fl. Scot.* 2 p. 810) Nyl. *Prodr.* p. 76, id. *Scand.* p. 142.

Forma primaria (*salicina* Schrd.) in Helvetia deesse videtur. F. *lignicola* Nyl. *Scand.* p. 143 et *Lapp.* p. 127 ad canaliculos molarum prope Riva (Baglietto-Carestia) et Genf (Rome) necnon ad „Kimmeler Wasserfall“ (Metzler monente Krb. *Pg.* p. 66). Minime raræ sunt formæ saxicolæ parum se invicem distinctæ quales dantur in Anzi *Lang.* 273 (*placidium* Mass.), 274 (*macrocarpa* Anzi), 445 (*ochroleuca* Mass.), 560 (*velana* Mass.) et in Anzi *It. sup.* 137 (*lactea* Mass.). Insuper accedunt var. *Oasis* Mass. *Sched.* p. 134 in Salevula (Müller), var. *polycarpa* (Mass. *Sched.* p. 48) ad caementum murorum templi del Lancone in Valdobbia (Baglietto-Carestia) et var. *hypoleuca* Müll.-Arg. in *Flora* 1872 p. 469 in monte Reculet (Müller).

- 395. L. erythrella** Ach. *L. U.* p. 402, Nyl. in *Lamy Cat.* p. 59, Syn. *Blastenia Metzleri* Krb. in *Hb. Metzl.* et *Caloplaca Hegetschweileri* Müll.-Arg. in *Hb. Hegetschw.*, Schaer. *L. H.* 223, Hepp *K. Z.* 248, id. *Fl. E.* 198, Rbh. *L. E.* 488, Anzi *It. sup.* 136.

Ad saxa calcaria et arenacea.

- 396. L. ochracea** (Schaer. in *Naturw. Anzeig.* 1818 p. 11) Nyl. in *Lamy Cat.* p. 59, Schaer. *L. H.* 222 p. p., Hepp *K. Z.* 247, id. *Fl. E.* 910, Anzi *It. sup.* 138.

Ad saxa calcaria alpium et montium Jurae. Var. *nubigena* (Krmplh. *Bay.* p. 162), Schaer. *L. H.* 222 p. p. ad saxa calcaria (Schaerer, Müller, Millardet).

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- Var. *lactea* Mass. in *Flora* 1852 p. 572 saxicola prope Monnetier (Müller).
- 397. L. Schaereri** (Flk. in *Hb. Mej. Gött.*, Arn. in *Flora* 1881 p. 312), Anzi *Lang.* 34, 560 p. p.
Ad saxa calcaria montis Jurae (Schaerer) et alpium Rhaeticarum (Anzi).
- 398. L. irrubescens** Nyl. in *Flora* 1874 p. 318, Anzi *Lang.* 446, id. *It. sup.* 135.
Ad saxa micacea in collibus Langobardiae (Anzi) et ad castellum dei Barbavara supra Rocca-Pietra (Baglietto-Carestia).
- 399. L. ferruginea** (Huds. *Fl. Angl.* p. 526) Nyl. *Prodr.* p. 76, id. *Scand.* p. 143, Schaer. *L. H.* 448 p. p., 583, Hepp *K. Z.* 234, id. *Fl. E.* 400, Anzi *It. sup.* 145.
Ad arborum et arbustorum corticem, trabes et muscos (Schaer. *L. H.* 631 pr. p., Hepp *Fl. E.* 401, Anzi *Lang.* 90). Muscicola alpes praeamat. *F. erysibe* (Mass. *Symm.* p. 30), Anzi *Lang.* 96 ad Larices in sylvis Bormiensibus (Anzi) et ad *Pinum piceam* prope Genf (Müller). *F. festiva* (Ach. *Syn.* p. 44) Nyl. *Scand.* p. 143, Schaer. *L. H.* 449, Hepp *K. Z.* 235, id. *Fl. E.* 201, Anzi *Lang.* 272 ad saxa praesertim granitica in regionibus campestribus et alpinis.
- 400. L. coccinea** Müll.-Arg. in *Flora* 1867 p. 436, Syn. *Blastenia flammea* Anzi *Anal.* p. 10.
In crista montis Parete (Anzi) et in praeruptis calcariis calidioribus montis Reculet (Müller).
- 401. L. lamprocheila** (DC. *Fl. Fr.* 2 p. 557) Nyl. in Lamy *Cat.* p. 61, Anzi *Lang.* 464.
Ad micaschistum in valle di Campello supra Bormio (Anzi). Var. *athroocarpa* (Anzi *Cat.* p. 38) Nyl.

- in *Flora* 1881 p. 454, Anzi *Lang.* 298 ad corticem Laricis et ad ligna laricina: in alpibus Rhaeticis prope Pontresina, St. Catharina in valle Furva et prope Roesa supra Poschiavo (Anzi), in alpe Laghetto di Stella supra Riva (Baglietto-Carestia).
- 402. L. caesiorufa** (Ach. *Syn.* p. 44) Nyl. *H. L. F.* 272, Schaer. *L. H.* 448 p. p., Anzi *Lang.* 28 et *It. sup.* 144. Ad saxa varia, minime frequens. *F. cinnamomea* Fr. fil. *Arct.* p. 123, Nyl. in *Flora* 1880 p. 388, *Syn. Placodium ferrugineum* var. *microcarpon* Anzi *Symb.* p. 7 ad corticem *Rhododendri hirsuti* in valle di Fraèle (Anzi).
- 403. L. nigricans** (Tuck.) Nyl. *Lapp.* p. 128, *Syn. Blastenia Pollinii* Mass. *Blast.* p. 111, Anzi *Lang.* 375. Ad lignum Pini vetustum circa Altorf (Gisler), ad arborum corticem prope Chiavenna, Como (Anzi), Varallo (Baglietto-Carestia), Altorf (Gisler); etiam in Hb. Ach. ex Helvetia adest (Fr. fil. *Scand.* p. 181).
- 404. L. viridirufa** (Ach. *L. U.* p. 204) Nyl. in *Flora* 1876 p. 239. Ad saxa schistosa in valle de Bagnes loco Torembé (Müller).
- 405. L. plumbeorufa** Nyl. in *Flora* 1876 p. 239, *Syn. Placodium cerinoides* Anzi *Neos.* p. 5. Saxicola circa Como (Anzi).
- 406. L. pyrithrella** Nyl. in *Flora* 1872 p. 427. Ad saxa vallis de Bagnes loco Torembé (Müller).
- 407. L. cerina** (Ehrh. *Pl. cr.* 216) Ach. *L. U.* p. 390, Nyl. *Scand.* p. 144, Hepp *K. Z.* 244, id. *Fl. E.* 203 p. p., 405, *Schw. Krypt.* 358, Anzi *It. sup.* 141, Rbh. *L. E.* 697. Ad corticem arborum frequens. Var. *cyanolepra* (Fr. *L. E.* p. 169) Nyl. l. c., Schaer. *L. H.* 219, Hepp

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K. Z. 255, id. *Fl. E.* 203 p. p., Anzi *Lang.* 300, *Krypt. Bad.* 37, Rbh. *L. E.* 348 B ad cortices. Var. *nigromarginata* Bagl.-Car. *Anacr.* p. 218 circa Riva (Baglietto-Carestia). Var. *gilva* Ach. *Meth.* p. 175, Nyl. l. c. ad ligna vetusta. *F. albiseda* Nyl. l. c. lignicola. Var. *stillicidiorum* (Horn. *Fl. D.* 1063 f. 2) Ach. *L. U.* p. 390, Nyl. l. c., Hepp *K. Z.* 246, id. *Fl. E.* 406, *Schw. Krypt.* 464, Anzi *Lang.* 92 AB, *Erb. critt.* 1423 muscicola rarius terrestris in regionibus calcariis alpium. Var. *flava* Anzi *Symb.* p. 7, id. *Lang.* 543 in alpibus Bormiensibus (Anzi).

408. * *L. chlorina* Fw. *Lich. Sil.* p. 126, Nyl. in *Lamy Cat.* p. 169, Anzi *Lang.* 33.

Ad saxa in alpibus Rhaetiae (Hepp, Anzi), in alpe „il Campo“ prope Alagna (Baglietto-Carestia) et in monte Salève (Müller).

409. * *L. haematites* Chaub. *Fl. d'Agen* p. 492, Nyl. *En.* p. 112, *Krypt. Bad.* 910.

Ad Populos et Juglandes juniores prope Konstanz (Stizenberger), ad Fraxinos prope Mornex (Müller).

410. *L. rubelliana* Ach. *L. U.* p. 376, Nyl. *Prodr.* p. 77, Anzi *Lang.* 559.

Ad saxa granitica circa Altorf (Gisler), in Valisia (Schleicher), ad muros soli expositos in regione *Vitis viniferae* Veltlin (Anzi).

411. *L. conversa* (Krmplh. *Bay.* p. 162) Nyl. in *Lojka Hung.* 152, Anzi *Lang.* 317.

Ad saxa calcis primitivae prope Bormio 1300 m. (Anzi), ad ripas fluminis Arve et ad muros prope St. Maurice (Müller).

412. **L. Oreadum** Stzb., Syn. *Psora aeneiformis* Anzi *Anal.* p. 13.

Ad saxa calcis primitivae decliva supra aquas novas Bormienses (Anzi).

„*L. luctuosae* vicina, apotheciis lecideinis, epithecio K + (viol.) sporis placodinis, minoribus quam in *L. variabili*, 10—12 μ longis, 6—7 μ crassis. Nihil aeneiforme habet.“ Nyl. in *lit.*

413. **L. luctuosa** (Anzi *Man.* p. 150) Nyl. in *lit.*, Anzi *Lang.* 119.

Ad saxa granitosa in radice montium: Veltlin (Anzi).

414. **L. asserigena** Stzb., Syn. *Blastenia assigena* Lahm in *lit.*
Ad lignum Pini supra Schattdorf (Gisler).

415. **L. epixyla** Nyl. in *lit.*

Ad ligna querneae in turfosis prope Riffersweil (Hegetschweiler jr.).

416. **L. obscurella** (Lahm in *Krb. Pg.* p. 130) Nyl. in *Flora* 1867 p. 326.

Ad Pyros prope Gossau (Hegetschweiler jr.).

L. crustaria Stzb. *Hb.* ad truncos *Pyri Mali* putridos decorticatos prope Wetzikon (Hegetschweiler jr.) thallo crustaceo indeterminato leproso obscure olivaceo-fusco, apotheciis adpressis concavis scabridis nigris, lamina superne olivaceo-fusca, paraphysibus diffluis, sporis 8^{nis} placodinis 10—14 μ l., 6 μ cr., gelatina hymenea iodo coerulescente — mihi adhuc non satis liquet.

417. **L. pyracea** (Ach. *Meth.* p. 176) Nyl. *Lapp.* p. 129, Syn. *Callopisma luteo-album* *Krb. S. L. G.* p. 128 non Turn., Nyl. in *Lamy Cat.* p. 62, *Schaer. L. H.* 475, *Hepp K. Z.* 242, id. *Fl. E.* 202, *Schw. Krypt.* 654, Anzi *It. sup.* 139, 140.

Ad cortices arborum, praesertim *Populi vulgaris*; etiam ad saxa. Muscicola in alpibus (Anzi *Lang.* 93). Forma lignicola alpina (Hepp *Fl. E.* 373, Anzi *Lang.* 295) a Nylanderero *Scand.* p. 146 intermedia dicitur

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inter typum et *L. holocarpam*; adest in valle Lauterbrunnen (Schaerer), prope Genf (Boissier), in monte Pilatus, prope St. Moritz (Hepp) et in Veltlin (Anzi). *F. ulmicola* (Borr., DC.) Nyl. in Wedell *Bloss.* p. 13, Syn. *Biatorina pyracea* Krb. forte non deest in Helvetia. *F. fallaciosa* (Müll.-Arg. in *Flora* 1868 p. 369) Nyl. in *lit.* ad saxa arenacea prope Bern (Fischer). Var. *lactea* Mass. *Sched.* p. 133 ad saxa calcaria in montibus Salève et Reculet (Müller). Var. *pyrithroma* (Ach. *L. U.* p. 206) Nyl. *Scand.* p. 145, Hepp *Fl. E.* 399, *Schw. Krypt.* 264 ad saxa, praesertim muros. *F. picta* (Tayl. in Mack. *Flor. Hib.* p. 130) Nyl. in Lamy *Cat.* p. 62, Hepp *K. Z.* 249, id. *Fl. E.* 636 ad saxa calcaria, arenaria et granitica locis apricis regionum campestrium et alpinarum.

418. * *L. holocarpa* (Ehrh. *Pl. cr.* 284) Nyl. *Scand.* p. 145, Hepp *K. Z.* 243, id. *Fl. E.* 73, *Erb. critt.* 1116.

Ad trabes.

419. *L. sinapisperma* (DC. *Fl. Fr.* 2 p. 349) Nyl. *Lapp.* p. 181, Schaer. *L. H.* 215, Hepp *K. Z.* 236, id. *Fl. E.* 200, *Schw. Krypt.* 566, Anzi *It. sup.* 146, *Erb. critt.* 1120.

Supra muscos herbasque destructas in alpibus praesertim calcariis a termino superiore Fagi usque ad nives aeternas; etiam in monte Jura. *F. macrocarpa* Hepp in *lit.* in monte Calanda.

420. *L. Jungermanniae* (Vahl *Nat. Selsk. Skr.* 2 p. 29) Nyl. in Lamy *Cat.* p. 62, Syn. *L. fulvo-lutea* Nyl. in *Mus. Paris.* et *Scand.* p. 146, Hepp *Fl. E.* 404, Anzi *Lang.* 94, Rbh. *L. E.* 502.

Ad terram turfosam graminaque destructa in alpibus calcariis et graniticis e regione Mughi ad nives

perpetua ascendens. Quoque in Jurae montibus.
 Var. *convexa* (Schaer. *En.* p. 147) Nyl. in *lit.*,
 Hepp *Fl. E.* 403, Anzi *Lang.* 95, *Erb. critt.* 837
 iisdem stationibus ut typus: Rhaetia (Hepp, Anzi,
 Metzler), Pilatus (Hepp), Simplon (Baglietto), Val-
 sesia (Carestia), Mannlifuhe (Schaerer).

L. luteo-alba (Turn. in *Transact. Linn. Soc.* VII p. 92) Nyl. in
 Lamy *Cat.* p. 62 Helvetiae deesse videtur.

421. **L. calva** (Dicks. *Crypt.* II p. 18) Nyl. *Scand.* p. 147,
 Schaer. *L. H.* 220, 221, Hepp *K. Z.* 238, 239, id.
 id. *Fl. E.* 134, 274.

Ad saxa calcaria.

422. * **L. irrubata** (Ach. *L. U.* p. 206) Nyl. in Rich. *Deux-
 Sèvres* p. 24 et in Norrl. *Kar.* p. 22, Hepp *K. Z.* 240,
 id. *Fl. E.* 7, 275, *Schw. Krypt.* 66.

Ad saxa imprimis arenacea et muros.

423. * **L. leucoderma** (Anzi *Neos.* p. 7) Nyl. in *lit.*

Ad saxa calcaria umbrosa prope fornacem ferrariam
 in valle di Fraèle, rara (Anzi).

424. * **L. Siebenhaariana** (Krb. *S. L. G.* p. 207) Stzb. *Hyperb.*
 p. 27.

Ad saxa micaceo-schistosa montium.

425. * **L. terricola** (Anzi *Cat.* p. 78) Stzb. *Hyperb.* p. 27,
 Anzi *Lang.* 182.

Ad terram in fissuris rupium calcariarum e regione
 Mughì in nivosam ascendens: ad saxa montis della
 Scala prope Bormio (Anzi), Torembé (Müller), in
 Valsesia (Baglietto-Carestia).

426. **L. phlogina** (Ach. *Meth.* p. 180) Nyl. *L. P.* 121, id.
Scand. p. 141, Hepp *Fl. E.* 395.

Ad Quercus arboresque pomiferas prope Zürich, Lie-
 stal (Hepp), ad Populos in monte Salève (Müller).

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- 427. L. aurea** Schaer. *En.* p. 64, Nyl. *Prodr.* p. 74, Schaer. *L. H.* 165, Hepp *Fl. E.* 634, Anzi *Lang.* 314 (?), Krb. *L. S. G.* 398.

In rupium calcariarum apricarum fissuris alpicola: circa Bormio (Anzi), in montibus Säntis (Stizenberger), Pilatus (Hepp), Scheibenflue, Hogant, Stockhorn, Sanetsch, Gemni (Schaerer), prope Engelberg et Mürren (Metzler), rara in alpibus Urnen-sibus (Gisler), in montibus Brizon (Reuter), Salève et Grand Muveran (Müller).

- 428. L. nivalis** (Krb. *S. L. G.* p. 127) Nyl. *Lapp.* 129.

Supra Andraeas et Racomitria in alpibus: Stelliboden, Isenmannsalp (Gisler). F. *livida* (Bagl.-Car. in *Comm. critt. it.* II p. 83) supra muscos in monte Turlo Valsesiae (Carestia).

- 429. L. Schistidii** (Anzi *Cat.* p. 38) Nyl. in Cromb. *Lich. Cap.* p. 172, Anzi *Lang.* 88, Schw. *Krypt.* 571, Krb. *L. S. G.* 335.

Ad caespites *Schistidii apocarpus* supra rupes calcarias montium et alpium Bormiensium (Anzi), in valle de Bagnes loco Torembé et in montibus Salève, Dôle (Müller), Reculet (Reuter), Simplon (Baglietto).

- 430. L. glaucescens** (Bagl.-Car. *Anacr.* p. 215).

Saxicola in monte Fenera (Baglietto-Carestia).

- 431. L. Ferrarii** (Bagl. *Lig.* p. 36), Schaer. *L. H.* 224.

Ad saxa arenaria (Schaerer).

- 432. L. candicans** (Dicks. *Crypt.* III p. 15) Schaer. *Spic.* p. 119, Nyl. in *Flora* 1876 p. 306.

Ad lacum Larium (Garovaglio); ibidem var. *Cesatii* (Garov. in *Hb.*), Anzi *Lang.* 447.

- 433. L. tetrasticha** Nyl. in *Flora* 1874 p. 307, Anzi *It. sup.* 252 p. p.

Ad saxa calcaria montium Rhaeticorum (Anzi).

- 434. L. chalybaea** (Duf. in Fr. *L. E.* p. 125) Schaer. *En.* p. 60, id. *L. H.* 566, Hepp *K. Z.* 89, id. *Fl. E.* 204, Anzi *Lang.* 35.

Ad saxa calcaria montium Rhaeticorum (Hepp, Theobald, Anzi), ad lacum Larium (Garovaglio), in montibus Lägern (Hepp), Pilatus (Sickenberger-Solms), Grimsel, Stockhorn (Schaerer), Reculet (Müller).

- 435. L. variabilis** (Pers. in Ust. *N. Ann.* I p. 26) Ach. *L. U.* p. 369, Hepp *K. Z.* 90, id. *Fl. E.* 74, Anzi *Lang.* 36, id. *It. sup.* 142, 143.

Supra saxa calcaria et muros: Schaffhausen (Schenk), Zürich (Hepp), Flüelen (Gisler), Bormio (Anzi), Neuchâtel (Chaillet, Cornaz). Var. *percaena* (Ach. *Syn.* p. 29) Nyl. *Scand.* p. 138 in Helvetia ad rupes teste Achario. Var. *ocellulata* (Ach. *L. U.* p. 332) Nyl. l. c., Anzi *Lang.* 315, 393, Rbh. *L. E.* 761 ad saxa calcaria prope St. Moritz (Metzler), ad saxa arenaria prope Riffersweil (Hegetschweiler jr.) et ad muros jurassicos subumbrosos prope Como (Anzi); huc etiam *L. alpestris* Ach. l. c. p. 679, *E. helygea* Ach. *Syn.* p. 155 et *Placodium alpinum* Hepp in *Hb. Metzler.*

De nonnullis hujus speciei formis a D. Müller propositis cf. *Flora* 1871 p. 412, 1872 p. 470 et 1874 p. 186, 333.

- 436. L. albopruinosa** (Arn. in *Flora* 1859 p. 152), Hepp *Fl. E.* 407, Anzi *Lang.* 37.

Ad saxa calcaria regionum campestrium et alpinarum valde variabilis; ei adnumeranda *Catillaria fraudulenta* Krb.

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437. L. aspicilioides (Müll.-Arg. in *Flora* 1874 p. 186).

Ad saxa granitica in Maderanerthal infra Holzern (Gisler).

438. L. pulchrevirens Anzi *Man.* p. 141 sub *Placodio*, id. *Lang.* 91.

Ad corticem arborum (Juglandis, Fraxini) glabrum in valle Brona (Anzi), prope Basel (Hepp) et Genf (Müller).

439. L. diphyodes Nyl. in *Flora* 1872 p. 353.

Gneissicola in alpe Rizzola (Baglietto-Carestia).

e. Stirps *L. vitellinae*.

440. L. medians Nyl. *Lux.* p. 367, Hepp *K. Z.* 97 dextr., id. *Fl. E.* 72 p. p., Anzi *Lang.* 444 b.

Ad lapides socia *Lecanorae murorum*, non infrequens, prope Zürich et Genf ad muros humidus (Hepp, Müller). F. *granulata* (Schaer. *En.* p. 50) ad arborum truncos prope Bern (Schaerer, Kemmler).

441. L. xanthostigma (Pers. in Ach. *L. U.* p. 403) Nyl. *Lapp.* p. 130, Hepp *Fl. E.* 393, Anzi *It. sup.* 132, Rbh. *L. E.* 456.

Ad cortices arborum et sepimenta lignea, raro fertilis.

442. L. reflexa Nyl. in *Bull. Soc. Bot.* 1866 p. 141, Anzi *Lang.* 544.

Ad corticem *Salicis albae* annosae circa Bormio (Anzi).

443. L. vitellina (Ehrh. *Pl. cr.* 155) Ach. *L. U.* p. 403, Nyl. *Lapp.* p. 130, Hepp *Fl. E.* 70 sin.

Ad ligna vetusta, rarius ad saxa. In monte Matterhorn legit Calberla. Var. *areolata* Schaer. *En.* p. 80, Nyl. *Scand.* p. 141, Hepp *Fl. E.* 391, Schw. *Krypt.* 262 ad ligna, saxa et cortices.

- 444. L. laciniosa** (Duf. in Fr. *L. E.* p. 73) Nyl. in *Flora* 1881 p. 444, Syn. *Lich. concolor* Dicks. *Crypt.* III p. 18 et *L. candelaria* Ach. *Syn.* p. 192 p. p., Hepp *Fl. E.* 392, Anzi *It. sup.* 131, *Erb. critt.* 191, Rbh. *L. E.* 139.

Ad arborem corticem e planitie in alpes ascendens, ubique frequens. Saxicolam et apotheciis feracissimam prope Imhof in valle Oberhasli legit Metzler. Muscicolam ad Grimmiæ caespites in monte Reulet legit Müller. Eadem sit var. *pulverulenta* Anzi *Symb.* p. 6 e valle Bruna.

- 445. L. epixantha** (Ach. *L. U.* p. 208) Nyl. *Lapp.* p. 127, Hepp *Fl. E.* 70 dextr., 396, Anzi *Lang.* 89, id. *It. sup.* 147.

Ad muscos, herbas demortuas, imo ad lichenes in alpibus; ad saxa circa Bern (Fischer), Riffersweil (Hegetschweiler jr.) et Genf (Müller), ad ligna prope St. Moritz (Hepp) et Riffersweil (Hegetschweiler jr.).

f. Stirps *L. disparatae*.

- 446. L. disparata** Nyl. *Ann. sc. nat.* 1862 Bot. p. 377, Anzi *Lang.* 299.

Ad rupes calcareas terrosas vel muscis obtectas, rarius ad rupes micaceas in alpibus Rhaeticis: prope Semogo, Bormio, Livigno et Chiavenna (Anzi), in Valdobbia (Baglietto-Carestia).

Forsan unacum *L. holophaea* et sequente propria stirps inter *St. cerinae* et *sophodis*.

- 447. L. unisepta** Stzb., Syn. *Patellaria tetramerospora* Hepp *Hb.* Supra muscos in monte Pilatus (Hegetschweiler).

Thallus cinereus intus albescens granulato-verrucosus (K —); apothecia conferta, primum concava margine tumidulo,

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demum plana margine attenuato vel evanescente, nonnunquam coalescentia, intus alba; discus luteo-fuscescens immo fusconigricans (K —); hymenium superne lutescens, paraphyses capillares subliberae capitulatae capitulo fusco; sporae 8^{nae} elongato-ellipticae uniseptatae 18—22 μ longae, 6—8 μ crassae; spermogonia minutissima nigra, spermatia cylindrica 4 μ long., 1 μ crassa athrosterigmatibus affixa.

g. Stirps *L. sophodis*.

- 448. *L. Mougeotioides*** Nyl. in *Flora* 1872 p. 364, Schaer. *L. H.* 331, Hepp *Fl. E.* 209, *Schw. Krypt.* 461, Rbh. *L. E.* 376, Anzi *It. sup.* 218, *Erb. critt.* 370, 1217.

Ad saxa granitosa locis apricis supra zonam Fagi in alpihus, minime rara. Ibidem f. *fimbriata* (Schaer. *En.* p. 67), Anzi l. c. 218 b.

L. oreina Ach. planta mere arctica est.

- 449. *L. phaeocarpa*** (Flk. *Ms.*, Smmrf. *Suppl.* p. 159) Nyl. in *lit.*, Syn. *L. nimbose* (Fr. *L. E.* p. 129) Nyl. *Scand.* p. 148, Hepp *Fl. E.* 82, Anzi *Lang.* 108, 109.

Ad terram nudam in alpihus calcariis, necnon in montibus Jurae. F. *cacuminum* (Mass. *Symm.* p. 52) ad muscorum pulvinulos in lapidibus siderolithicis montis Salève (Müller), etiam in monte Jura.

- 450. *L. sophodes*** (Ach. *Prodr.* p. 67) id. *L. U.* p. 357, Nyl. *Lapp.* p. 131, Hepp *Fl. E.* 410, 882, 883, 884, Anzi *Lang.* 304, *Schw. Krypt.* 60.

Ad cortices laevigatos arborum frondosarum, rarissime Pinorum; etiam ad Rhododendra.

- 451. * *L. laevigata*** Ach. *L. U.* p. 357, Nyl. in *Flora* 1878 p. 345, Hepp *Fl. E.* 97, 207 p. p., Anzi *Lang.* 107, 378.

Ad cortices arborum frondosarum, rarius Pinorum. Var. *lecideina* Nyl. in *Hb. Mus. Fenn.* p. 87 ad corticem Betulae prope Bovernier (Müller) et Castaneae in Salevula (Rome).

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- 452. L. exigua** (Ach. *Prodr.* p. 69) Nyl. in *Flora* 1873 p. 197 et 1874 p. 307, Schaer. *L. H.* 569, Hepp *Fl. E.* 80, 207 p. m. p., id. *K. Z.* 111, Rbh. *L. E.* 737, 860, Anzi *Lang.* 377 b, *Erb. critt.* 1420, *Schw. Krypt.* 263.

Ad ligna rarius ad cortices. *F. ecrustacea* Nyl. *Scand.* p. 150 ad ligna pinea prope Bovernier (Müller). *F. saxicola* Anzi *Lang.* 320 ad micaschistos in-umbratos vallis di Sotto (Anzi) et prope Riva (Baglietto-Carestia). *F. demissa* Hepp *Fl. E.* 645 ad saxa granitica in valle di Sotto (Anzi), ad muros prope Valette supra Martigny et ad saxa prope Compesières (Müller).

- 453. L. roboris** Duf. *Hb.*, Nyl. in *Flora* 1869 p. 413, Anzi *Lang.* 377 a, Rbh. *L. E.* 889.

Ad Pinorum cortices in sylvis Bormiensibus (Anzi), in monte Salève (Müller), circa Riva et Alagna (Baglietto-Carestia).

- 454. L. confragosa** (Ach. *Meth. suppl.* p. 33) Nyl. in Norrl. *Torn.* p. 329, Anzi *Lang.* 394.

Ad saxa micacea in sylvis vallis Furva (Anzi), ad saxa siderolithica montis Salève (Müller), ad muros sine caemento exstructos in Alagna (Baglietto-Carestia). Var. *aggregata* Bagl. *Lig.* p. 31, Nyl. in *Flora* 1877 p. 232 ad saxa circa Riva et in valle Vogna (Baglietto-Carestia).

- 455. L. subconfragosa** Nyl. in *Flora* 1872 p. 549 var. *lecidotropoides* Nyl. in *lit.*, Syn. *Rinodina melanocarpa* Müll.-Arg. in *Flora* 1867 p. 434.

Ad saxa erratica montis Salevulae prope Genf (Müller).

- 456. L. milvina** (Whlnb. in Ach. *Meth. suppl.* p. 34) Nyl. *Scand.* p. 150, Schaer. *L. H.* 608, Hepp *Fl. E.* 208, Anzi *Lang.* 45.

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Ad saxa duriora tam primitiva quam calcaria montium et alpium Rhaeticarum (Hepp, Anzi, Killias), Fioney (Müller), circa Monte Rosa (Baglietto-Carestia), prope Maschwanden (Hegetschweiler jr.).

- 457. L. ocellata** (Hffm. *Pl. lich.* 4 p. 92) Nyl. in *Flora* 1872 p. 428, Syn. *Rinodina lecanorina* Mass. *Ric.* 41, *Erb. critt.* 374, Anzi *Lang.* 279.

Ad saxa varia in alpibus Rhaeticis (Anzi). Var. *laveana* (Mass. *Ric.* 41) ad rupes gneissiacas inumbratas prope S. Monte in Varallo (Baglietto-Carestia) et in Isola madre (Baglietto).

- 458. L. Bischoffii** (Hepp *K. Z.* 113) Nyl. in *Stzb. Hyperb.* p. 29, Hepp l. c., id. *Fl. E.* 81, 411, Anzi *It. sup.* 222.

Ad saxa calcaria et Nagelfluhe, raro ad rupes micaceas et serpentinosas: in alpibus Bormiensibus (Anzi), in montibus Ütli et Lägern prope Zürich (Hepp), prope Schaffhausen (Schenk) et Genf (Müller). Var. *exigua* Müll.-Arg. in *Flora* 1870 p. 258 ad saxa calcario-schistosa in monte Tournette. Var. *immersa* (Krb. *Pg.* 75) ad saxa calcaria in valle di Fraèle, ad saxa micacea in valle di Sotto (Anzi), vulgaris in monte Salève (Müller). Var. *perexigua* Müll.-Arg. in *Flora* 1870 p. 258 ad saxa calcario-schistosa montis Tournette alt. 2400 m. in alpibus Ormons-dessus (Müller). Var. *intermedia* Müll.-Arg. in *Flora* 1872 p. 473 ad saxa calcaria in montibus Reculet et Grand Muveran (Müller). Var. *leucomela* Müll.-Arg. in *Flora* 1872 p. 534 ad saxa calcaria montis Salève (Müller).

- 459. L. nigrella** Müll.-Arg. in *Flora* 1872 p. 481 sub *Rinodina*.

Ad saxa dolomitica montis Reculet (Müller). Var. *insularis* Müll.-Arg. l. c. p. 482 cum typo (id.).

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- 460. L. colobina** Ach. *L. U.* p. 358, *Nyl. Scand.* p. 149, Hepp *K. Z.* 49, id. *Fl. E.* 55, *Schw. Krypt.* 156, *Krypt. Bad.* 457, *Rbh. L. E.* 438, 965, Anzi *Lang.* 305.

Ad corticem vetustum Salicum et Pyri in regione campestri. F. *lecideina* Müller-Arg. in *lit.* ad Populos prope Veyrier (Müller).

- 461. L. polyspora** (Fr. fil. *Arct.* p. 126) *Nyl.* in *Norrl. Tavast.* p. 182, Schaer. *L. H.* 314 p. p., Hepp *Fl. E.* 77, 78, Anzi *It. sup.* 221.

Ad cortices laevigatos arborum.

- 462. L. turfacea** (Whlnb. *Lapp.* p. 408) Ach. *Syn.* p. 156, *Nyl. Scand.* p. 150.

Ad terram turfosam in alpibus editioribus tam granitosis quam calcariis. F. *orbata* Ach. *L. U.* p. 678, Hepp *Fl. E.* 84, Anzi *Lang.* 459, *Erb. critt.* 189, 1269 supra muscos terramque nudam in alpinis: Pilatus (Hegetschweiler), Rhaetia (Theobald, Anzi), in vallibus circa Monte Rosa (Baglietto-Carestia). Var. *roscida* (Smmrf. *Suppl.* p. 97) Fr. fil. *Arct.* p. 126, id. *Scand.* p. 196, Hepp *Fl. E.* 85, Anzi *Lang.* 106 supra muscos terramque nudam in alpinis: Rhaetia (Hepp, Anzi, Escher v. d. Linth), Rigi (Hepp), Bristen, Rossstock (Gisler), in valle Sermenza (Baglietto-Carestia).

- 463. L. mniaraea** (Ach. *Syn.* p. 339) *Nyl. Scand.* p. 151, Hepp *Fl. E.* 83, *Rbh. L. E.* 380, 382, Anzi *It. sup.* 219, *Erb. critt.* 188 a.

Ad terram turfaceam et supra muscos destructos in alpibus. F. *biatorina* *Nyl. Scand.* p. 151, Anzi *Lang.* 513 in sylvis circa Bormio (Anzi). F. *cinnamomea* Fr. fil. *Arct.* p. 128, id. *Scand.* p. 194, Anzi *It. sup.* 220, id. *Lang.* 460 supra muscos circa Bormio

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et in valle Livigno (Anzi), Tschietscher Alp (Theobald), Valdobbia (Baglietto-Carestia). Var. *amniocola* (Ach. Syn. p. 156) Nyl. *Scand.* p. 151: „in Helvetia supra muscos destructos“.

464. * L. mniaraeiza Nyl. in *Flora* 1870 p. 33.

Supra muscos in monte Badus (Gisler).

465. L. Conradi (Krb. *S. L. G.* p. 123) Nyl. in Norrl. *Tavast.* p. 182, Syn. *L. pyreniospora* Nyl. *Scand.* p. 151.

Supra muscos et hepaticas ad saxa granitica Boreae exposita prope S. Bartolomeo in valle di Sotto 1200 m., rara (Anzi), in monte Salève (Rome).

466. L. arenaria (Hepp *Fl. E.* 646) Nyl. in *Flora* 1877 p. 232.

Ad saxa duriora prope Tarasp (Jack).

467. L. Romeana Müll.-Arg. *Hb.* sub *Rinodina*.

In monte Salève (Rome).

468. L. atrocinerea (Dicks. *Crypt.* III p. 14) Nyl. in *Flora* 1870 p. 38, Anzi *Lang.* 321.

Ad saxa granitosa in collibus et montibus humilioribus circa Como, Chiavenna et in Veltlin (Anzi), prope hospitium montis Simplon (Baglietto). Var. *calcaria* Arn. *exs.* 161 in horto botanico Genevensi (Rome).

469. L. trachytica Mass. *Ric.* p. 41 sub *Rinodina*.

In monte Fenera (Baglietto-Carestia).

470. L. Dubyanoides Hepp *Fl. E.* 323 sub *Lecidea*.

Ad saxa calcaria montis Lägern et prope Liestal (Hepp).

471. L. subgranulata Müll.-Arg. in *Flora* 1872 p. 482 sub *Rinodina*.

Ad saxa calcaria aprica montis Salevulae (Müller).

472. L. ocellulata Bagl.-Car. in *Erb. critt.* II 721, id. *Anacr.* p. 211 sub *Rinodina*.

Ad muros inumbratos prope Valmuggia et Varallo
(Baglietto-Carestia).

473. L. teichophila Nyl. in *Flora* 1863 p. 74.

Ad rupes prope Varallo (Baglietto-Carestia).

474. L. Zwackhiana (Krmplh. in *Flora* 1854 p. 145) Nyl. ib.
1881 p. 530.

Rarissime ad saxa prope Compesières (Müller).

475. L. controversa (Mass. *Ric.* p. 16) Nyl. in *Flora* 1873
p. 198.

Ad saxa prope ecclesiam parochialem in Riva (Baglietto-Carestia) et circa Monnetier (Müller).

h. Stirps *L. alphoplacae*.

476. L. alphoplaca (Whlnb. *Lapp.* p. 421) Ach. *L. U.* p. 428,
Nyl. *Scand.* p. 152, Schaer. *L. H.* 330, Hepp *Fl. E.*
621, Schw. *Krypt.* 467, Rbh. *L. E.* 325, Anzi *It. sup.*
162, *Erb. critt.* 34.

Ad saxa varia praesertim granitica in alpibus.

477. L. melanaspis Ach. *L. U.* p. 427, Nyl. *Scand.* p. 152,
Syn. *Squamaria alphoplaca* v. *olivacea* Anzi *Cat.* p. 47.

In rivulis et ad saxa irrorata alpium Rhaeticarum
(Anzi).

478. L. circinnata (Pers. in *Ust. N. Ann. Bot.* 1 p. 25) Ach.
L. U. p. 425, Nyl. *Scand.* p. 152, Schaer. *L. H.* 328,
Hepp *K. Z.* 91, Anzi *It. sup.* 163 p. p.

Ad saxa praesertim calcaria in regione campestri et
montana vulgaris. Var. *myrrhina* Fr. *L. E.* p. 123,
Schaer. *L. H.* 329 ad saxa duriora in Valesia
(Schaerer). Var. *albo-pulverulenta* Bagl.-Car. in
Comm. critt. it. I p. 440 ad muros prope Alagna
(Baglietto-Carestia).

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479. * L. subcircinnata Nyl. in *Flora* 1873 p. 18.

Ad calcem in montibus Fenera et Roccopietra (Baglietto-Carestia). Var. *farinosa* (Anzi *Symb.* p. 7) Nyl. l. c., Syn. *Placodium radiosum* var. *ocellatum* Bagl.-Car. in *Comm. critt. it.* I p. 440 ad rupes calcarias circa hospitium in Valdobbia (Baglietto-Carestia).

i. Stirps *L. subfuscae*.**480. L. galactina** Ach. *L. U.* p. 424, Nyl. *Lapp.* p. 132, Schaer. *L. H.* 616, Hepp *K. Z.* 101 p. p., id. *Fl. E.* 180, 900, Anzi *Lang.* 40 A.

Ad muros, saxa, praesertim calcaria, rarius ad ligna.

Var. *muralis* (Schreb. *Spic.* p. 130) Hepp *Fl. E.* 901, id. *K. Z.* 101 p. p., Anzi *Lang.* 40 B, *Schw. Krypt.* 63, *Krypt. Bad.* 863 ad muros calcarios.

481. L. dispersa (Pers. in *Ust. N. Ann.* 1 p. 27) Flk. *D. Fl.* III p. 4, Nyl. *Lapp.* p. 181, Hepp *K. Z.* 103, id. *Fl. E.* 61, Anzi *It. sup.* 170, 171.

Ad saxa calcaria et Nagelfluhe, necnon ad muros.

Var. *pruinosa* (Anzi *Lang.* 276) Arn. *Tir.* XX p. 12 ad calcem in alpibus Bormiensibus (Anzi) et in monte Salève (Müller).

482. L. crenulata (Dicks. *Crypt.* V p. 9) Nyl. *Lapp.* p. 181, Hepp *K. Z.* 120, id. *Fl. E.* 65, *Schw. Krypt.* 469.

Ad saxa calcaria et muros regionum campestrium.

483. L. subfusca (L. *Spec.* p. 1609) Ach. *L. U.* p. 304 (incl. *L. glabrata* ib.), Nyl. in *Flora* 1872 p. 250, Anzi *It. sup.* 185.

Ad truncos arborum regionum campestrium et montanarum. Var. *campestris* (Schaer. *Spic.* p. 391)

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- id. *En.* p. 75, Nyl. in *Flora* 1873 p. 198, Hepp *K. Z.* 118, id. *Fl. E.* 63, 381, Anzi *It. sup.* 191, 192, Rbh. *L. E.* 691, *Schw. Krypt.* 655 saxicola. Var. *leucopis* (Ach. *L. U.* p. 354) ad saxa prope Thonon (Puget).
- 484. L. allophana** Ach. *L. U.* 395, Nyl. in *Flora* 1872 p. 250, Hepp *K. Z.* 114, id. *Fl. E.* 183, Anzi *It. sup.* 184.
Ad corticem arborum vulgaris. Var. *mesophana* Nyl. apud Stzb. in *Bot. Zeit.* 1868 p. 892 ad corticem Juglandum juniorum prope Konstanz (Stizenberger).
- 485. L. epibrya** (Ach. *Prodr.* p. 79) id. *L. U.* p. 396, Nyl. in *Flora* 1872 p. 250, Schaer. *L. H.* 311, Hepp *Fl. E.* 185, Anzi *It. sup.* 193.
Ad muscos vetustos aliasque plantas in alpibus e regione Mughii in nivosam ascendens; etiam in Jurae montibus Dôle et Brezon.
- 486. L. scrupulosa** Ach. *L. U.* p. 375, Nyl. in *Flora* 1872 p. 250, Rbh. *L. E.* 801, *Krypt. Bad.* 909.
Ad arborum corticem: Konstanz (Stizenberger).
- 487. L. Parisiensis** Nyl. *Lux.* p. 368, Rbh. *L. E.* 802.
Ad corticem arborum inprimis Juglandum.
- 488. L. sylvestris** (Nyl. in Mand. *Lich. Madeir.* 1) var. *azurea* Anzi *Neos.* p. 6.
Ad cortices circa Como.
- 489. L. rugosa** (Pers. in *Hb.* Ach., Stzb. in *Bot. Zeit.* 1868 p. 891) Nyl. in *Flora* 1872 p. 250, Anzi *It. sup.* 188, 189, id. *Ven.* 38.
Ad corticem arborum in Veltlin (Anzi), ubi transitus in *L. chlaronam* non desunt et prope Bern (Guthnik).
- 490. L. chlarona** Ach. *L. U.* p. 397, Nyl. in *Flora* 1872 p. 250, Schaer. *L. H.* 310, Hepp *Fl. E.* 184, 379, Rbh.

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L. E. 803, *Erb. critt.* 935 bis, *Krypt. Bad.* 908, *Schw. Krypt.* 61.

Ad corticem arborum. Var. *geographica* (Mass. Ric. p. 6) Nyl. in *Flora* 1873 p. 69, Hepp *Fl. E.* 778 ad corticem Salicum juniorum prope Zürich (Hepp).
L. subfusca v. *pinastri* Schaer. *Spic.* p. 390 huc ducenda est.

491. * *L. coilocarpa* (Ach. *L. U.* p. 393) Nyl. in *Lamy Cat.* p. 72, Anzi *Lang.* 105, *Schw. Krypt.* 467, *Krypt. Bad.* 704.

Ad corticem praesertim Pinorum in Rhaetia (Theobald, Anzi), Valsesia (Baglietto-Carestia), prope Genf (Müller).

492. *L. intumescens* (Rebent. *Flor. neomarch.* p. 301) Rbh. *D. Kr. Fl.* II, 1 p. 34, Nyl. in *Flora* 1881 p. 178 et in *Lamy Cat.* 73, Anzi *Lang.* 102, *Erb. critt.* 1071.

Ad truncos arborum: Rhaetia (Anzi), Schwyz (Harz), Seedorf, Maderanerthal (Gisler), Belp (Schaerer), Valsesia (Baglietto-Carestia), Genf (Müller).

493. *L. albella* (Pers. in *Ust. N. Ann.* V p. 18) Ach. *L. U.* p. 369, Nyl. *Lapp. or.* p. 133, Hepp *K. Z.* 124, id. *Fl. E.* 187, 780, Anzi *It. sup.* 178, *Schw. Krypt.* 62.

Ad cortices vulgaris, raro ad saxa. Var. *chondrotypa* (Ach. l. c. p. 365, Nyl.) Stzb. in *Bot. Zeit.* 1868 p. 899, Anzi *Lang.* 103 p. p. ad Abietum corticem in Veltlin (Anzi). Var. *cinerella* Flk. *D. L.* 88, Nyl. *Scand.* p. 162 ad cortices in monte Salève (Müller) et prope Zürich (Hepp).

494. * *L. subalbella* Nyl. in *Flora* 1872 p. 365, Schaer. *L. H.* 315.

Ad *Piceam pectinatam* prope Bern (Schaerer).

495. *L. atrynea* (Ach. *L. U.* p. 395) Nyl. in *Flora* 1872 p. 250, 354, 365, Hepp *K. Z.* 119, Rbh. *L. E.* 831, *Krypt. Bad.* 907.

Ad saxa et ligna in regionibus campestribus et alpinis. Var. *expansa* (Ach. l. c. p. 345) Nyl. *Scand.* p. 161 saxicola in Herbario Acharii ex Helvetia (Schleicher) adest. Var. *cenisea* (Ach. *L. U.* p. 361) Nyl. *Scand.* p. 161, Schaer. *L. H.* 306, Hepp *Fl. E.* 62, 380, Anzi *Lang.* 548a, id. *It. sup.* 194 ad saxa granitica locis umbrosis in alpibus, raro ad ligna et cortices Pinorum, Laricum et Rhododendrorum.

496. **L. transcendens** Nyl. in *Stzb. Bot. Zeit.* 1868 p. 896, Anzi *Lang.* 548b.

Ad casas ligneas supra Bormio.

497. **L. angulosa** Ach. *Syn.* p. 166, Nyl. in *Flora* 1872 p. 250, 428, 550, Hepp *Fl. E.* 779, *Erb. critt.* 836, Anzi *It. sup.* 179AB, id. *Lang.* 103 inf.

Ad cortices et saxa. Var. *sordidescens* (Pers. in Ach. *L. U.* p. 369) ad corticem Quercus prope Genf (Müller).

498. **L. glaucoma** (Hffm. *D. Fl.* II p. 172) Ach. *L. U.* p. 362, Nyl. *Scand.* p. 159, Schaer. *L. H.* 304, Hepp *K. Z.* 105, id. *Fl. E.* 60, Anzi *It. sup.* 196, *Erb. critt.* 674.

Ad saxa varia rarius ad trabes in montibus et alpibus.

499. **L. subcarnea** (Sw. in *Vet. Ak. Handl.* 1791 p. 126) Ach. *ib.* 1810 p. 74, Nyl. in *Flora* 1873 p. 69, *Erb. critt.* 1072.

Rara videtur ad saxa: prope Tarasp (Killias), Trobaso in valle Intrasca (Baglietto), Salève (Müller). Var. *Privati* Müll.-Arg. in *Flora* 1870 p. 259 in cacumine Pic Romand supra Aigle (Privat et Bader).

500. * **L. bicincta** (Ram. in *Mem. Mus.* XIII (1825) p. 248) Nyl. in *Flora* 1872 p. 549, Anzi *Lang.* 67.

Ad rupes graniticas supra zonam Fagi in Veltlin, circa Bormio (Anzi), Riffel prope Zermatt (Metzler), in Valsesia (Baglietto-Carestia); in alpibus Ber-

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nensibus adhuc desideratur. Sub nomine *Lecideae glacialis* ex Helvetia mitiore a Schleicher divulgata. Var. *lecideina* (Schaer. *En.* p. 71) Nyl. *Scand.* p. 159 ad saxa micaceo-schistosa montis St. Bernhard (Schaerer), ad saxa schistosa montis Simplon (Baglietto) et ad saxa erratica montis Salève (Müller).

501. L. Salevensis Müll.-Arg. in *Flora* 1872 p. 466.

Ad lapides calcarios pascuorum in monte Salève (Müller).

502. L. Hageni (Ach. *Syn.* p. 167 p. p.) Nyl. in *Flora* 1872 p. 250, Hepp *K. Z.* 60, id. *Fl. E.* 64 p. p., Anzi *It. sup.* 181, *Schw. Krypt.* 157.

Ad cortices et ligna.

503. L. umbrina (Ehrh. *Pl. cr.* 245) Nyl. in *Flora* 1872 p. 250, Hepp *Fl. E.* 64 p. p.

Ad cortices et ligna. Etiam ad herbas demortuas: Anzi *Lang.* 302 et saxa: ib. 392.

504. L. Bormiensis Nyl. in *Flora* 1872 p. 250, Anzi *It. sup.* 180.

Ad sepimenta lignea prope Bormio et ad Laricum corticem in termino vegetationis arboreae in valle di Forcola juxta montem Bernina (Anzi).

505. L. mughicola Nyl. in *Flora* 1872 p. 248, Anzi *Lang.* 376.

Ad Mughorum ramos decorticatos in alpibus Rhaeticis (Anzi), ad Laricum corticem in monte Catogne (Müller).

506. L. Agardhiana Ach. *Syn.* p. 152, Nyl. *Scand.* p. 138, Schaer. *L. H.* 201 p. p., Hepp *Fl. E.* 382, Anzi *Lang.* 42.

Frequens ad saxa montium.

507. L. fuscescens (Smmrf. *Lapp.* p. 161) Nyl. in *Flora* 1872 p. 552, Anzi *Lang.* 173.

Ad corticem Coniferarum: Grünwald, Rophaien (Gisler) et circa Bormio (Anzi).

- 508. *L. sulfurea*** Ach. *L. U.* p. 399, *Nyl. Scand.* p. 165, Schaer. *L. H.* 324, Hepp *K. Z.* 108, id. *Fl. E.* 189, Anzi *It. sup.* 204, *Erb. critt.* 675, *Schw. Krypt.* 466.

Ad saxa varia alpium vulgaris: Rhaetia (Hepp, Anzi), Hoherohne, Schindellegi (Hepp), Intschi, Leutschach, Susten, Gampeln, Maderanerthal (Gisler), Hohgant, Grimsel, Tête noire (Schaerer), Valsesia (Baglietto-Carestia), Salève, Petit Salève, Reculet (Reuter).

- 509. *L. epanora*** Ach. *L. U.* p. 377, *Nyl. Scand.* p. 167, Schaer. *L. H.* 615, Hepp *Fl. E.* 774 (ipsissima *epanora!*), 775, Anzi *Lang.* 43.

Ad rupes gneissiacas et micaceo-schistosas in Veltlin (Anzi), prope Intschi (Gisler), in montibus Susten et Grimsel (Schaerer), Valsesia (Baglietto-Carestia).

- 510. *L. varia*** Ach. *L. U.* p. 377, *Nyl. Scand.* p. 163, Schaer. *L. H.* 325, Hepp *K. Z.* 137, id. *Fl. E.* 190, *Krypt. Bad.* 455, *Schw. Krypt.* 468, Anzi *It. sup.* 173, *Erb. critt.* 1223.

Ad ligna fabrefacta, nudos Coniferarum, rarius Salicum truncos et ad Laricis corticem in regionibus campestribus et alpinis. Var. *melanocarpa* Anzi *Lang.* 546 in sepibus ligneis supra Bormio (Anzi).

- 511. *L. conizaea*** Ach. *L. U.* p. 374, *Nyl.* in *Flora* 1872 p. 249.

Ad corticem Laricum juniorum prope Konstanz (Stizenberger).

- 512. *L. oresthea*** Ach. *L. U.* p. 400, *Nyl. Scand.* p. 165.

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Ad saxa granitica et porphyria in montibus Grimsel et St. Bernhard (Schaerer).

513. L. symmictera Nyl. in *Flora* 1872 p. 249, Hepp *K. Z.* 139, id. *Fl. E.* 68, 191, Anzi *It. sup.* 174, id. *Lang.* 303.

Ad corticem arborum variarum in regionibus campestribus et alpinis, ubi etiam ad ligna invenitur. *F. acrustacea* Nyl. in *Hb. Zwackh*, Hepp *K. Z.* 142, id. *Fl. E.* 386 ad truncos demortuos et ligna Coniferarum in regionibus alpinis, rarius campestribus: Zürich (Hepp), Genf (Müller), Weissenstein prope Solothurn (Metzler).

514. L. glaucella Fw. *Exs.* 348, Nyl. in *Norrl. H. L. F.* 289, Anzi *It. sup.* 177.

Ad Coniferarum corticem in Veltlin (Anzi), prope Zürich (Hepp), in montibus Albis (Hegetschweiler jr.) et Salève (Müller), in Valsesia (Baglietto-Carestia).

515. L. piniperda Krb. *Pg.* p. 81, Nyl. in *Flora* 1872 p. 251, Hepp *Fl. E.* 69, *Rbh. L. E.* 690, Anzi *It. sup.* 176, *Erb. critt.* 1382.

Ad corticem Coniferarum, raro Betulae, praecipue in regione subalpina.

516. * L. ochrostomoides Nyl. in *Flora* 1872 p. 251, Hepp *Fl. E.* 387.

Ad Laricum et Pinorum cortices et ligna in Veltlin (Anzi), ad Abietes prope Zürich (Hepp) et prope Hagedorn (Hegetschweiler jr.).

517. L. metaboloides Nyl. in *Flora* 1872 p. 250 et 1881 p. 184, Anzi *It. sup.* 175.

Ad ligna Coniferarum in Veltlin (Anzi), ad truncum *Castaneae vescae* in monte Salève (Müller) et ad

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ramos *Vaccinii Myrtilli* in Valdobbia (Baglietto-Carestia).

- 518. *L. polytropa*** (Ehrh. *Pl. cr.* 294) Schaer. *En.* p. 81, Nyl. in *Flora* 1872 p. 251, Schaer. *L. H.* 321—323, 572, Hepp *K. Z.* 136, id. *Fl. E.* 67, 384, 902, 903, Anzi *It. sup.* 200—202, id. *Lang.* 531, 549, 567 (formae), *Erb. critt.* 371, Rbh. *L. E.* 327.

Ad saxa inprimis granitica planitiei et alpium frequentissima et sat variabilis, rarissima ad cortices arborum. In summo Montblanc (Saussure), Wetterhorn et Monte Rosa (Calberla).

- 519. *L. intricata*** (Schröd. *Journ.* I p. 72) Ach. *L. U.* p. 380, Nyl. in *Flora* 1872 p. 251, Anzi *It. sup.* 203.

Ad saxa gneissica et micaceo-schistosa in sylvis editioribus alpium Rhaeticarum (Anzi) necnon in monte Salève (Müller) et in Valdobbia (Baglietto-Carestia). Var. *leptacina* (Simmrf. *Suppl.* p. 96) Fr. fil. *Arct.* p. 109 et *Scand.* p. 260 supra Grimmiæ pulvinulos in monte Plaida prope Riva (Baglietto-Carestia).

- 520. *L. subraida*** Nyl. in *Flora* 1872 p. 250, Schaer. *L. H.* 544.

Ad truncos decorticatos in alpibus (Schaerer).

- 521. *L. subintricata*** Nyl. in *Flora* 1868 p. 478, Hepp *Fl. E.* 192, Anzi *Lang.* 512.

Ad sepes ligneas in valle Furva (Anzi), ad corticem et lignum decorticatum Laricis circa Riva (Baglietto-Carestia), ad Larices supra Champey (Müller).

- 522. *L. sarcopis*** (Whlbn. in Ach. *Meth. suppl.* p. 40) Nyl. *Scand.* p. 165, Hepp *K. Z.* 138, id. *Fl. E.* 782, 783, Anzi *Lang.* 511.

Ad truncos demortuos et ligna: Konstanz (Stizenberger), Zürich, St. Moritz (Hepp), in vallibus circa

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Bormio (Anzi), prope Schattdorf (Gisler), in monte Albis (Hegetschweiler), prope Liestal (Hepp) et prope Veyrier (Rome).

L. effusa (Pers. in Hoffm. *D. Fl.* II p. 174) Ach. *L. U.* p. 385, Nyl. in *Flora* 1872 p. 249, Anzi *Lang.* 432 in territorio nostro adhuc desideratur.

- 523. *L. constans*** Nyl. *Class.* 2 p. 199, id. *Prodr.* p. 89, Hepp *Fl. E.* 771, *Schw. Krypt.* 158, Rbh. *L. H.* 633.

Ad corticem Cerasi prope Liestal (Hepp) et Riffersweil (Hegetschweiler jr.).

- 524. * *L. Berica*** (Mass. in *Flora* 1856 p. 291), Anzi *Lang.* 433.

Ad corticem Abietum in sylvis densioribus prope Rodolo et Alfaèdo (Anzi).

- 525. *L. sambuci*** (Pers. in Ust. *N. Ann.* I p. 26) Nyl. *Scand.* p. 168, Anzi *Lang.* 104.

Ad variarum arborum frondosarum corticem in Veltlin (Anzi) et prope Mollia (Baglietto-Carestia).

- 526. *L. erysibe*** (Ach. *Meth.* p. 62) Nyl. *Scand.* p. 167, Hepp *Fl. E.* 409.

Ad saxa arenacea prope Zürich (Hepp) et Genf (Müller).

Var. *Rabenhorstii* (Hepp *K. Z.* 92, id. *Fl. E.* 75)

et var. *Turicensis* (Hepp *K. Z.* 213, id. *Fl. E.* 8)

Nyl. in *lit.* iisdem locis. Var. *minuta* Hepp in *lit.*,

Krmplh. Bay. p. 219, Müll.-Arg. in *Flora* 1871

p. 471 in monte Salève (Müller).

- 527. * *L. proteiformis*** (Mass. *Sched.* p. 92) Nyl. in *Flora* 1881 p. 538 (cum. varr. *ceramonea* et *dispersa* Mass. l. c.).

Ad saxa calcaria in monte Salève (Müller). Ibidem

rarior var. *sylvestris* (Arn. in *Flora* 1859 p. 152)

Nyl. ib. 1881 p. 538. Var. *albariella* Nyl. (*Lich.*

Aegypt. p. 5) in *Flora* 1881 p. 538, Syn. *Patellaria*

faucigena Müll.-Arg. ibid. 1871 p. 404 ad saxa

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micacea umbrosissima faucium „Gorges de Bouvernier“ in pede montis Catogne Valisiae (Müller).

528. **L. Genevensis** Müll.-Arg. in *Flora* 1872 p. 470 sub *Callopismate*.

Copiose ad lapides majores calcarios nigricantes aqua irroratos vel immersos in ripa fluminis Arve prope Genf (Müller).

529. **L. syringeae** Ach. (*Meth.* p. 163) *Syn.* p. 168, Nyl. in *Lamy Cat.* p. 79, *Syn. Lecania fuscella* var. *nivea* Mass. *Sched.* p. 164.

Ad truncos Populorum in monte Salève (Müller).

530. **L. athroocarpa** Duby *Bot. Gall.* 2 p. 699, Nyl. *Scand.* p. 168, Hepp *K. Z.* 127, id. *Fl. E.* 76, Anzi *It. sup.* 223.

Ad varias arbores frondosas praesertim Populos: Konstanz (Stizenberger), Zürich (Hepp), Gossau (Hegetschweiler jr.), Schattdorf (Gisler), Veltlin (Anzi), Villeneuve (Schaerer), Genf (Müller).

531. **L. Koerberiana** (Lahm in Krb. *Pg.* p. 68), *Schw. Krypt.* 672. Ad *Populum nigram* in radice montis Salève (Müller).

532. **L. Nylanderiana** (Mass. *Sched.* p. 152) Norrl. *Kar.* p. 24.

Calcolica in Valsesia (Baglietto-Carestia). Var. *odora* (Bagl.-Car. *Anacr.* p. 213) ad fodinas auriferas St. Maria prope Alagna (Baglietto-Carestia). Var. *dispersa* (Mass. l. c.) ad murum in valle Sermenza (iid.).

533. **L. suavis** (Müll.-Arg. in *Flora* 1871 p. 472).

Ad saxa dolomitica montis Reculet (Müller).

534. **L. cooperta** Ach. *Syn.* p. 339, Nyl. *Scand.* p. 169, id. *Lapp.* p. 181.

Ad saxa micacea (Schleicher), in arce destructa Roilborough prope Genf (Müller).

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- 535. *L. rhypariza*** Nyl. *Scand.* p. 169 var. *castanea* (Hepp *Fl. E.* 270) Nyl. *Lapp.* p. 134, Anzi *Lang.* 177.

Ad herbas destructas in regionibus alpinis e zona Mughii ad nives aeternas ascendens: Rhaetia (Hepp, Anzi, Hochstetter jr.), Isenmannsalp, Badus, Stelliboden et supra Realp (Gisler), Simplon (Baglietto), Eggischhorn, Valisia (Mortier), in Valsesia (Baglietto-Carestia).

- 536. *L. sororia*** Bagl.-Car. *Anacr.* p. 200.

Ad saxa supra Riva (Baglietto-Carestia).

- 537. *L. atra*** Ach. *L. U.* p. 344, Nyl. *Scand.* p. 170, Schaer. *L. H.* 307, Hepp *K. Z.* 110, id. *Fl. E.* 182, Anzi *It. sup.* 168, 169.

Ad arborum corticem et saxa in regionibus campestribus et alpinis. Var. *grumosa* (Pers.) Ach. *L. U.* p. 345, Nyl. *Scand.* p. 171 saxicola in monte Salève (Müller).

- 538. *L. argopholis*** (Whlbn. *Lapp.* p. 411) Ach. *L. U.* p. 346, Nyl. *Scand.* p. 166.

Ad rupes graniticas regionis nivosaee in alpe Bormiensi Zebrù rara (Anzi), prope Tarasp (Jack), etiam prope fodinam S. Maria supra Alagna (Baglietto-Carestia). Var. *thiodes* (Spreng. *N. Entd.* I p. 224) Nyl. l. c., Schaer. *L. H.* 478, Hepp *Fl. E.* 178, Anzi *It. sup.* 183 ad rupes graniticas, rarius calcarias a radice montium usque ad nives aeternas, nullibi frequens. Var. *ocellulata* (Mass. in Anzi *Venet.* 31) Arn. in *Flora* 1868 p. 245 ad murum in horto prope Varallo (Baglietto-Carestia) et ad saxa erratica prope Genf (Rome).

- 539. *L. frustulosa*** (Dick. *Crypt.* III p. 13) Nyl. *Scand.* p. 166.

Ad saxa granitica in Veltlin (Anzi).

k. Stirps *L. badiae*.

540. *L. badia* Ach. *Syn.* p. 154, Nyl. *Scand.* p. 70, Schaer. *L. H.* 301, Hepp *K. Z.* 104, id. *Fl. E.* 181, Anzi *It. sup.* 167.

Ad saxa granitica, gneissica, micaceo-schistosa et arenaria duriora supra zonam Fagi frequens. Var. *pallida* Fw. in Krb. *S. L. G.* p. 138 in monte Pic Ramond (Bader). Var. *cinerascens* Nyl. l. c., *Syn. L. badia* var. *milvina* Whlbn., Schaer., Fw., Krb. in montibus Gemmi (Schimper), Pic Ramond (Bader) et Salève (Müller). Var. *microcarpa* Anzi *Man.* p. 144 in valle Vogna (Baglietto-Carestia).

541. * *L. protecta* Bagl.-Car. *Anacr.* p. 199.

Saxicola in cryptis umbrosis inter fragmenta saxorum montium Iskette (Baglietto-Carestia).

542. *L. nephaea* Smmrf. *Lapp.* p. 103, Nyl. *Scand.* p. 169, id. in Lamy *Cat.* p. 82, *Syn. L. atriseda* (Fr. *L. E.* p. 149) Nyl. *Scand.* p. 170.

Ad saxa siderolithica in monte Salève (Müller).

543. *L. torquata* (Fr. *L. E.* p. 147) Nyl. *Prodr.* p. 92, Schaer. *L. H.* 303, Anzi *Lang.* 44.

Ad saxa granitica et gneissica umbrosa rorida in zonam Mughii progrediens: Rhaetia (Brunner, Garovaglio, Anzi), Ribshausen, Wasen (Gisler), Susten, Grimsel (Schaerer), Locarno (Baglietto), in via inter Rimosco et S. Giuseppe et in monte Tovo (Baglietto-Carestia).

l. Stirps *L. haematommatis*.

544. *L. haematomma* Ach. *L. U.* p. 388, Nyl. *Scand.* p. 172, Anzi *It. sup.* 226.

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Ad saxa granitica prope Rodolo in Veltlin (Anzi), in summo monte Salève (Müller) et in Valsesia (Baglietto-Carestia).

545. L. elatina Ach. *L. U.* p. 387, *Nyl. Scand.* p. 172.

Ad cortices arborum „auf Gampeln“ fertilem legit Gisler.

546. L. cismonica (Beltr. *Lich. Bass.* p. 127).

Ad corticem *Piceae pectinatae* circa Gossau minime rara (Hegetschweiler jr.).

m. Stirps *L. ventosae*.

547. L. ventosa Ach. *L. U.* p. 399, *Nyl. Scand.* p. 172, Schaer. *L. H.* 320, Hepp *Fl. E.* 643, 644, *Schw. Krypt.* 470, Anzi *It. sup.* 225, *Erb. critt.* 377, Rbh. *L. E.* 197.

Ad saxa granitica et arenaria in alpibus, interdum in zonam Abietum descendens.

n. Stirps *L. tartareae*.

548. L. tartarea (*L. Spec.* p. 1608) Ach. *L. U.* p. 371, *Nyl. Lapp.* p. 135, *Erb. critt.* 672, Rbh. *L. E.* 324.

Saxicola in alpibus editioribus.

549. * L. pallescens (*L. Spec.* p. 1608) Ach. *L. U.* p. 370, *Nyl. Lapp.* p. 135, Schaer. *L. H.* 317, Hepp *K. Z.* 126, id. *Fl. E.* 188, Rbh. *L. E.* 639, *Schw. Krypt.* 64, Anzi *It. sup.* 165 b.

Corticola ad arbores varias.

550. * L. subtartarea *Nyl.* in *Flora* 1872 p. 550, Schaer. *L. H.* 318 p. p., Hepp *Fl. E.* 784 p. p.

Ad arbores in alpibus. *F. leprosa* *Nyl. Lapp.* p. 135, id. in *Flora* l. c. et in *Lamy Cat.* p. 81, Anzi *Lang.* 101 ad terram turfaceam, gramina herbasque siccas in alpibus Bormiensibus (Anzi).

- 551. L. parella** (L. *Mant.* p. 132) Ach. *L. U.* p. 169, Nyl. *Lapp.* p. 135, Schaer. *L. H.* 318 p. p., *Schw. Krypt.* 745, Anzi *Lang.* 100, id. *It. sup.* 165a, Hepp *Fl. E.* 784 p. p., *Erb. critt.* 673, 1381.

Ad saxa varia in regionibus campestribus et alpinis et ad arborum imprimis Coniferarum truncos in sylvis editioribus.

- 552. L. Upsaliensis** (L. *Spec.* p. 1609) Schaer. *L. H.* 316, Hepp *Fl. E.* 623, Anzi *Lang.* 547, *Erb. critt.* 1070, *Schw. Krypt.* 746.

Ad terram turfosam et herbas destructas in alpibus praesertim calcariis, etiam in Jurae montibus.

o. Stirps *L. cinereae*.

- 553. L. Bockii** Rodig, Nyl. in *Flora* 1879 p. 204, Hepp *Fl. E.* 225.

Ad saxa granitica prope St. Moritz (Hepp) et in Valsesia (Baglietto-Carestia).

- 554. L. acceptanda** Nyl. in *Flora* 1879 p. 204, Schaer. *L. H.* 302, Anzi *Lang.* 248.

Ad saxa granitica irrigata in alpibus Bernensibus (Schaerer, Metzler) et Rhaeticis (Anzi).

- 555. L. complanata** Krb. *Pg.* p. 84, Nyl. in *Flora* 1879 p. 204. Saxicola: Campertogno et Riva in Valsesia (Baglietto-Carestia).

- 556. L. oculata** (Dicks. *Crypt.* II p. 17) Ach. *Syn.* p. 148, Nyl. *Scand.* p. 156, Anzi *Lang.* 510.

Muscos et alia vegetabilia vetusta incrustans in alpibus praesertim granitosis prope moles glaciales circa Bormio (Anzi).

- 557. L. cinerea** (L.) Nyl. *Lapp.* p. 136, Schaer. *L. H.* 125,

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126, Hepp *K. Z.* 149, 150, id. *Fl. E.* 388, Anzi *It. sup.* 207, id. *Lang.* 72, 306.

Ad saxa duriora alpium et planitiei, raro ad ligna. Var. *microcelis* (Ach. *Syn.* p. 145) Nyl. l. c. „in Helvetia supra saxa“ Ach. l. c. *F. depressa* (Ach. *Syn.* p. 134) Nyl. *Scand.* p. 153, Anzi *Lang.* 527 (sinon *L. caesiocinerea*) ad saxa arenacea rubra in alpe Trella supra zonam Coniferarum (Anzi), ad saxa micoschistosa prope Tarasp (Jack), in Valdobbia (Baglietto-Carestia), in pede montium Schwarzhorn (Privat, Bader) et Distelgrat (Brun). Schleicher teste Achario eam supra saxa duriora in sylvis castaneis legit. *F. athallina* Nyl. *Not. Fenn. Förh.* VI p. 78 in summo Mettelhorn (Kündig). *F. obscurata* (Fr. *L. S.* 343) Nyl. *Lapp.* p. 137 ad saxa micaschistosa prope Tarasp (Jack).

558. L. mastrucata (Whlbn. *Lapp.* p. 415) Ach. *Syn.* p. 148, Nyl. in *lit.* ad Arn. var. *subradians* Nyl. *Lapp.* p. 136.

Ad saxa primitiva prope Tarasp (Jack).

559. L. plumbeola Müll.-Arg. *L. Val.* p. 4.

In pede montis Schwarzhorn supra Tourtemagne (Privat-Bader).

560. L. Myrini (Fr. *S. V. Sc.* p. 108) Nyl. in *Flora* 1869 p. 413.

Ad saxa loco Torembé (Müller).

561. L. alpina Smmrf. *Suppl.* p. 91, Nyl. in *Flora* 1869 p. 413, Schaer. *L. H.* 130, Anzi *Lang.* 730.

Ad saxa granitosa in regione Mughi et nivosa alpium: Rhaetia (Hepp, Anzi, Killias, Jack), Rhonegletscher (Metzler), in alpiibus Urnensibus (Gisler), in montibus Grimsel, Susten, St. Bernhard (Schaerer) et Pilperg prope Alagna (Baglietto-Carestia).

- 562. L. fumosula** Müll.-Arg. *L. Val.* p. 4.
In pede montis Schwarzhorn supra Tourtemagne
(Privat).
- 563. L. gibbosa** (Ach. *Prodr.* p. 30) Nyl. *Scand.* p. 154,
Hepp *Fl. E.* 389, 624, Anzi *Lang.* 130 (ad ligna).
Ad saxa quartzosa, gneissiaca, calcaria et lapides
erraticos prope Bormio et Cepina (Anzi), Nairs
(Killias), Zürich (Hepp), Realp (Gisler), St. Gott-
hard (Schaerer) et Genf (Müller). *F. squamata*
Fw. *Lich. Sil.* I p. 128 ad saxa granitica prope
Bormio (Anzi).
- 564. * L. subdepressa** Nyl. in *Flora* 1873 p. 69, Hepp *Fl. E.*
390, Anzi *Lang.* 71, *Erb. critt.* 1386.
Ad saxa inundata in alpibus: Engadin (Hepp), Velt-
lin, Bormio, Chiavenna (Anzi), Maderanerthal (Gis-
ler), prope hospitium in Valdobbia (Carestia).
F. verruculosa (Krmplh. *Bay.* p. 283) Nyl. in *Flora*
1881 p. 183 saxicola in montibus Petit-Salève (Mül-
ler) et Tagliaferro (Baglietto-Carestia).
- 565. * L. caesiocinerea** Nyl. in *Flora* 1872 p. 364.
Non rara videtur; ad saxa quartzosa prope Weissen-
bach (Hegetschweiler jr.).
- 566. * L. lusca** Nyl. in *Flora* 1873 p. 69.
Ad saxa primitiva prope Hochwacht in monte Albis
(Hegetschweiler jr.).
- 567. L. polychroma** (Anzi *Cat.* p. 59) Nyl. in *lit.*, Anzi
Lang. 277.
Ad saxa micaceo-schistosa prope Campolungo (Anzi).
Var. *ochracea* Anzi l. c., id. *Lang.* 70 ad saxa
serpentinea alpibus Zebrù (Anzi) et prope Riva (Bag-
lietto-Carestia).

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- 568. L. Dicksonii** (Ach. *L. U.* p. 165) Nyl. *Scand.* p. 155, id. *Lapp.* p. 137, Schaer. *L. H.* 123, Anzi *It. sup.* 213.

Ad saxa granitica, gneissiaca et micaceo-schistosa (ferginosa) alpium.

- 569. L. laevata** (Ach. *L. U.* p. 327) Nyl. *Lapp.* p. 137.

„In Helvetia supra rupes et saxa“ Ach. *Syn.* p. 134, in alpe di Trella (Anzi), in montibus Matterhorn (Calberla) et Tagliaferro (Baglietto-Carestia), in Valdobbia (iid.). *F. chiodectoides* Anzi *Neos.* p. 7 ad moles glaciales in alpe Zebrù (Anzi).

- 560. L. candida** (Anzi *Cat.* p. 59) Nyl. in *lit.*, Anzi *Lang.* 325, id. *It. sup.* 208.

Ad saxa calcaria, granitica et serpentina alpium Rhaeticarum (Anzi), prope hospitium in Valdobbia et in valle d'Otro (Baglietto-Carestia).

- 571. L. farinosa** (Flk. in *Berl. Mag.* 1811 p. 125) Nyl. in *Flora* 1873 p. 199, Hepp *K. Z.* 155.

Ad saxa calcaria et arenacea: Konstanz (Stizenberger).

- 572. L. calcarea** (L. *Spec.* p. 1140) Smmrf. *Suppl.* p. 102, Nyl. *Scand.* p. 154, *Syn. L. rugosa* Ach. *Syn.* p. 163 teste Nyl. in *lit.*, Schaer. *L. H.* 476, Hepp *Fl. E.* 627, Anzi *It. sup.* 209, id. *Lang.* 69 (*ochracea*).

Vulgaris ad saxa calcaria regionis campestris et alpium. Var. *Hoffmanni* Ach. *Syn.* p. 143, Nyl. in *Flora* 1853 p. 199 (*L. caecula* Ach. *Syn.* p. 164 forte huc ducenda), Anzi *Lang.* 223?, 324 ad saxa duriora alpium Bormiensium (Anzi), montis Pilatus (Sickenberger-Solms), in Valsesia (Baglietto-Carestia), ad muros prope Konstanz (Stizenberger). Var. *contorta* (Flk. *D. L.* 30) Nyl. in *Flora* 1872 p. 554, Schaer. *L. H.* 131, Hepp *K. Z.* 156, id.

Fl. E. 629, Anzi *It. sup.* 210 ad saxa calcaria et arenacea.

- 573. L. cacuminum** Müll.-Arg. in *Flora* 1868 p. 369.
In summo cacumine montis Dent du Midi 3000 m.
(Cas. de Candolle).
- 574. L. lacustris** (With.) Nyl. *Lapp.* p. 137, Anzi *Lang.* 326.
Ad rupes graniticas saepe irrigatas inter sylvas abietinas vallis di Tartano in Veltlin (Anzi), in Erstfelderthal (Hegetschweiler jr.) et in monte Salève (Müller). Var. *diamartoides* Nyl. in *Flora* 1869 p. 298 (lapsu ibi indicatur sub *L. epulotica*), Syn. *Aspicilia melanophaea* v. *concolor* Anzi *Cat.* p. 61 ad micaschistum prope Bormio (Anzi).
- 575. L. mutabilis** (Ach. *L. U.* p. 345) Nyl. *Alg.* p. 324, id. *Prodr.* p. 84, Schaer. *L. H.* 134, Hepp *Fl. E.* 631, Anzi *Lang.* 129, *Schw. Krypt.* 564.
Ad cortices arborum (Populorum, Quercuum, Cerasorum, Juglandum, Betularum, Laricum) rarissime ad ligna vetusta: Liestal, Chur (Hepp), Ems, Masans, Haldenstein, Untervaz (Theobald), Livigno, Como (Anzi), Attinghausen, Altorf (Gisler), insula Petri prope Biel, Leuk (Schaerer), prope Riva (Baglietto-Carestia) et Genf (Müller).
- 576. L. flavida** Hepp *Fl. E.* 630, Nyl. in *Flora* 1881 p. 455, Krb. *L. S. G.* 309 b, Anzi *Lang.* 278.
Ad saxa primitiva alpium Rhaeticarum (Anzi), ad saxa Verrucano dicta in monte Albis (Hepp), calcicola in monte Petit Salève, prope Fionay, Bonatchasse (Müller) et in monte Palanca (Baglietto-Carestia).
- 577. L. cinereorufescens** (Ach. *L. U.* p. 677 p. p.) Nyl. *Lapp.* p. 137, Hepp *Fl. E.* 625.

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Ad saxa duriora in alpibus, nunquam infra regionem Coniferarum descendens: St. Moritz (Hepp), Piz Ot (Brügger), Piz Albris (Metzler), in valle Fraèle (Anzi), Intschi, Belmi (Gisler), prope hospitium montis Simplon (Baglietto) et in Valsesia (Baglietto-Carestia). F. *diamarta* (Ach. *Meth.* p. 151) Nyl. *Lapp.* p. 137, Anzi *Lang.* 74, *Erb. critt.* 678 ad rupes graniticas et schistosas in sylvis editioribus circa Bormio et Rodolo (Anzi), circa Riva in Valsesia (Carestia), Montblanc (Müller). Var. *sanguinea* (Krmplh. in *Flora* 1857 p. 137) in Valsesia (Baglietto-Carestia) et in alpibus Trella et Fraèle (Anzi).

578. L. subnivea Müll.-Arg. in *Flora* 1872 p. 467.

In frigidis montis Dent de Morcles (Cas. de Candolle).

579. L. verrucosa (Ach. *L. U.* p. 140) Laur. in Sturm *D. Fl.* 2 p. 28 t. 21a, Nyl. *Scand.* p. 156, Schaer. *L. H.* 133, Hepp *K. Z.* 158, id. *Fl. E.* 193, *Erb. critt.* 938, Anzi *It. sup.* 211.

In alpibus praesertim calcariis, rarissime graniticis ad terram muscos herbasque demortuas incrustans; etiam ad ligna, asseres et ad corticem Laricis supra terminum Fagi.

580. L. cupreoatra Nyl. in *Flora* 1866 p. 417, id. *Lapp.* p. 181, Syn. *Aspicilia olivacea* Bagl.-Car. in *Comm. crit. it.* I p. 441.

Ad saxa quartzosa prope hospitium in Valdobbia.

581. L. badioatra Hepp *Hb.*

Ad saxa in Maderanerthal (Hepp teste Krmplh. *Bay.* p. 285).

A *L. cupreoatra* Nyl. *Lapp.* p. 181 vix diversa.

- 582. L. carneopallens** Nyl. in *Flora* 1873 p. 292 et 1874 p. 318, Anzi *Lang.* 80.

Calcicola in Valdobbia (Baglietto-Carestia) et prope Genf (Müller).

- 583. L. ceracea** (Arn. in *Flora* 1859), Anzi *Lang.* 76.

Ad saxa duriora et lapides.

p. Stirps *L. epuloticae* (*Ionaspis*).

- 584. L. epulotica** (Ach. *L. U.* p. 151) Nyl. in *Cromb. Brit.* p. 55, Hepp *Fl. E.* 272, Anzi *Lang.* 77.

Ad saxa calcaria vulgaris: prope Bormio (Anzi), in monte Albula (Hepp), circa Engelberg (Metzler), in montibus Salève et Grand Muveran supra Bex (Müller).

- 585. L. Prevostii** (Fr. in Duby *Bot. gall.* II p. 671, Nyl. *Prodr.* p. 103) Fr. fil. *Scand.* p. 288, Hepp *K. Z.* 154, id. *Fl. E.* 273, Anzi *Lang.* 78a, b, 528a, b.

Unacum f. *melanocarpa* Krmplh. *Bay.* p. 167, Anzi *Lang.* 78c ad saxa calcaria in alpibus et in monte Jura minime rara. Var. *affinis* (Mass. *Symm.* p. 23) Nyl. in *lit.* calcicola in monte Salève (Müller) et prope Richisau in Klönthal (Hegetschweiler jr.).

- 586. L. chrysophana** (Krb. *S. L. G.* p. 159) Nyl. in *Hb. Lojka.*

Saxicola in rivulis: Erstfelderthal (Hegetschweiler jr.) et in monte Rossstock (Gisler).

- 587. L. odora** (Ach. in Schaer. *Spic.* p. 80) Nyl. in *Hb. Lojka*, Schaer. *L. H.* 136, Anzi *Lang.* 75.

Ad saxa granitica et gneissica irrigata alpium: supra hospitium montis Grimsel (Schaerer), Göschenenalp (Hegetschweiler), circa Riva (Baglietto-Carestia), prope aquas Masino et in valle Bregaglia (Anzi).

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- 588. L. suaveolens** (Ach. in Schaer. *Spic.* p. 70, Nyl. *Scand.* p. 155), Schaer. *L. H.* 124.

Ad saxa granitica aqua suffusa prope hospitium montis Grimsel (Schaerer), in Göschenenalp (Hegetschweiler), ad saxa micaceo-schistosa rorida alpium Rhaeticarum (Anzi) et in Valsesia (Baglietto-Carestia).

- 589. L. cyanocarpa** (Anzi *Man.* p. 145) Nyl. in *lit.*, Anzi *Lang.* 79.

Ad saxa micacea humida: vallis del Forno prope Bormio in termino arboreo (Anzi).

- 590. L. delibuta** (Ach. *Syn.* p. 31) Nyl. in *lit.*

Ad saxa duriora (Ach. l. c.).

q. Stirps *L. coeruleae* (*Hymenelia*).

- 591. L. coerulea** (DC. *Fl. Fr.* 2 p. 318) Nyl. in *lit.*

Ad saxa calcaria alpium et montis Jurae. *F. Cantiana* (Gar. *Manz.* p. 4) Nyl. in *lit.*, Hepp *Fl. E.* 939, Anzi *Lang.* 566, ad saxa calcaria in montibus Pilatus (Hepp), Reculet et Salève (Müller). Dolomicola in monte Corna di Canzo (Anzi).

r. Stirps *L. rhagadiosae* (*Glypholecia*).

- 592. L. placodiiformis** (Del. in *Hb. Lenorm.*, Nyl. *Prodr.* p. 95) id. in *lit.*

Ad saxa in alpibus (Nyl. *Prodr.* l. c.).

Vix differt a sequente.

- 593. L. rhagadiosa** Ach. *Syn.* p. 164, Nyl. *Prodr.* p. 194, Hepp *Fl. E.* 772.

Ad rupes prope Zermatt (Laurer), in monte Cenisio (Ach. l. c.) et prope hospitium in Valdobbia (Baglietto-Carestia).

s. Stirps *L. chlorophano-cervinae*.

- 594. *L. chlorophana*** (Whlbn. *Lapp.* p. 416) Ach. *L. U.* p. 436, Nyl. *Scand.* p. 173, Schaer. *L. H.* 336, Hepp *Fl. E.* 770, Anzi *Lang.* 68.

Frequens ad saxa granitica alpium orientalium praesertim locis ventosis unacum var. *oxytona* (Ach. *L. U.* p. 436) Nyl. l. c., Schaer. *L. H.* 335, Anzi *It. sup.* 214, *Erb. critt.* 369, Rbh. *L. E.* 336. In alpiibus Bernensibus et Valisiacis rariores videntur.

- 595. *L. nodulosa*** (Duf. in Fr. *L. E.* p. 185, Müll.-Arg. *L. Val.* p. 7).

Ad declivia gypsosa prope Granges (Wolf).

- 596. *L. Schleicheri*** (Ach. *L. U.* p. 332) Nyl. *Prodr.* p. 81. Ad terram et ad saxa Valisiae mitioris (Schleicher).

- 597. *L. badiofusca*** Nyl. *Scand.* p. 174.

Ad saxa prope Schwarenbach in monte Gemmi (Metzler) et in valle de Bagnes (Müller).

- 598. *L. oligospora*** Nyl. in *Bot. Not.* 1853 p. 162, Syn. *Acarospora glebosa* Krb. *S. L. G.* p. 156.

Ad murum arenarium prope Bern (Fischer), ad saxa calcaria arenosa in Salevula (Müller).

- 599. *L. flavorubens*** (Bagl.-Car. *Anacr.* p. 192).

Ad lapides inter Riva et Alagna et in valle Vogna (Baglietto-Carestia).

- 600. *L. cervina*** (Pers. in *Hb. Ach.*) Ach. *Syn.* p. 188 p. p., Nyl. *Scand.* p. 174, Hepp *K. Z.* 86, id. *Fl. E.* 58, *Schw. Krypt.* 471.

Minus frequens ad saxa calcaria et Nagelfluhe, a planitie usque ad terminum superiorem Mughii ascendens: Schaffhausen (Schenk), Zürich, Baden

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(Hepp), alpes Rhaeticae (Hepp, Anzi), in monte Palanco (Baglietto-Carestia), circa Genf (Müller).

- 601. L. percaenoides** Nyl. *Arm.* p. 399 (qua forma et) in Weddell *Bloss.* p. 202, Syn. *Acarospora versicolor* Bagl.-Car. *Comm. critt. it.* I p. 440 et *Anacr.* p. 194, Hepp *Fl. E.* 378, Anzi *Lang.* 328 B.

Ad saxa calcaria prope Zürich (Hepp), in alpibus Rhaeticis: St. Moritz (Hepp) et circa Bormio (Anzi), in alpibus Bernensibus Gemmi et Lauenen et prope Martinach (Schaerer), prope Riva et in valle Vogna (Baglietto-Carestia), in monte Salève (Müller).

- 602. L. glaucocarpa** (Whlbn. in Ach. *Meth.* p. 181) Ach. *L. U.* p. 410, Nyl. *Scand.* p. 175, Hepp *K. Z.* 84, id. *Fl. E.* 377, Anzi *Lang.* 127, 329, 395, id. *It. sup.* 215.

Ad saxa calcaria et Nagelfluhe prope Zürich (Hepp), Sewen (Hegetschweiler), in alpibus Rhaeticis (Hepp, Anzi), in Valisia prope aquas thermales Visp (Schaerer) et circa Genf (Müller).

Sarcogyne acarosporoides Anzi *Anal.* p. 17, ad saxa quartzosa et mico-talcosa in Val Furva rara (Anzi), teste Nyl. est *L. glaucocarpa (nuda)*.

- 603. L. peliscypha** Whlbn. in Ach. *Meth.* suppl. p. 41, Nyl. *Scand.* p. 175, Syn. *Acarospora rugulosa* Krb. *Pg.* p. 59, Anzi *Lang.* 564.

Ad saxa gneissica, argillaceo-vel micaceo-schistosa soli ventisque exposita in arborum termino alpium Rhaeticarum (Anzi).

- 604. L. fuscata** (Schrad. *Spic.* p. 83) Nyl. *Scand.* p. 175, Schaer. *L. H.* 117, Hepp *K. Z.* 85, id. *Fl. E.* 175, Anzi *It. sup.* 216.

Ad saxa erratica, arenaria, micaceo-schistosa, gneissica, granitica montium et alpium, rarius planitiei.

Etiam ad lignum laricinum. Var. *bullata* Anzi *Anal.* p. 12, Nyl. in *Flora* 1872 p. 364, Anzi *Lang.* 532 ad saxa micaceo-schistosa in valle Furva (Anzi).

„*L. cineracea* Nyl. in *Flora* 1873 p. 199 verisimiliter in Helvetia non deest.“ Nyl. in *lit.*

- 605. *L. admissa*** Nyl. in *Flora* 1867 p. 370, Syn. *Acarospora macrospora* v. *incusa* Bagl.-Car. in *Comm.* II p. 330.

Ad saxa micaceo-schistosa circa Riva et prope hospitium in Valdobbia (Baglietto-Carestia).

- 606. *L. smaragdula*** (Whlbn. *Lapp.* p. 460) Nyl. *Scand.* p. 175 et in *Flora* 1872 p. 429 var. *sinopica* (Sm. *E. B.* t. 1776) Schaer. *En.* p. 55, Nyl. *Scand.* l. c., Schaer. *L. H.* 116, Hepp *Fl. E.* 768, Anzi *It. sup.* 217.

Ad rupes graniticas et gneissiacas ferruginosas alpium: Veltlin, Bormio (Anzi), Intschi (Hepp, Gisler), Grimsel (Schaerer), Trachsellauenen (Metzler), circa Riva (Baglietto-Carestia).

- 607. *L. Veronensis*** (Mass. *Ric.* p. 29).

Ad saxa gneissiaca, micoschistosa et serpentinae circa Bormio (Anzi) et in monte Salevula (Müller). F. *lignicola* Hepp *Fl. E.* 769 ad ligna vetusta prope Zürich (Hepp).

- 608. *L. rufescens*** (Borr. *E. B.* suppl. t. 2657) Nyl. in *Flora* 1881 p. 178, Hepp *K. Z.* 87, id. *Fl. E.* 56.

Ad rupes in claustris Rhaeticis Scaletta (Theobald), ad muros arenarios prope Zürich (Hepp), Grande Gorge (Müller), in montibus Matterhorn et Wetterhorn (Calberla).

- 609. *L. Heppii*** (Naeg. in Hepp *Fl. E.* 57) Nyl. *Lapp.* p. 182, Hepp *K. Z.* 148.

Ad calcem prope Zürich, supra saxa erratica et ad

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rupes umbrosas circa Sondrio (Anzi) et in monte Salève (Müller).

t. Stirps *L. simplicis* (*Sargogyne*).

610. *L. privigna* (Ach. *Meth.* p. 49 non Fw., Krb.) Nyl. *Scand.* p. 175 et in *Flora* 1873 p. 69, Syn. *Collema petrosum* Ach. *Syn.* p. 309.

Ad saxa (Hb. Ach.).

611. *L. eucarpa* Nyl. (*Coll. Gall. mer. Pyr.* p. 14) *Scand.* p. 176, *Erb. critt.* 121.

Ad saxa granitica in Zwing-Uri (Hegetschweiler jr.), ad rupes et saxa erratica in montibus circa lacum Verbanum, prope Locarno, Bellinzona, in valle Intrasca et in monte Simplon (De Notaris, Franzoni, Baglietto). Var. *Carestiae* (DN. in *Comm. critt. it.* I p. 31) Nyl. in *lit.*, Anzi *Lang.* 381, *Erb. critt.* 734, Rbh. *L. E.* 682 ad saxa erratica in Monte Rossa prope lacum Verbanum (Anzi), ad ripas fluminis Dranse prope Bovernier (Müller) et ad rupes micaceo-schistosas comminutas prope Riva, Varallo et Rocca Pietra in Valsesia (Baglietto-Carestia).

612. *L. pruinosa* (Sm. *E. Bot.* t. 2244) Nyl. *Scand.* p. 176, Schaer. *L. H.* 202, Hepp *K. Z.* 195, id. *Fl. E.* 143, Anzi *It. sup.* 289, id. *Lang.* 359.

Ad muros saxaque arenaria et calcaria a planitie ad nives aeternas progrediens. F. *nuda* Nyl. in Lamy *Cat.* p. 67 iisdem locis minime rara.

613. *L. fallacissima* Müll.-Arg. in *Flora* 1872 p. 487 sub *Lecidea*.

Saxicola in monte Reculet (Müller).

614. *L. pusilla* (Anzi *Lang.* 190) Nyl. in *lit.*

Ad rupes calcarias vallis di Forcola supra Poschiavo

in termino arboreo. Var. *minutissima* Müll.-Arg. in *Flora* 1870 p. 260 in nivosis montis Tournette et in monte Reculet (Müller).

615. **L. simplex** Dav. *Trans. Linn. Soc.* II p. 283, *Nyl. Scand.* p. 176, Anzi *Lang.* 189.

Ad saxa granitica prope St. Moritz (Metzler), circa Como, in valle Bergell, circa Tresivio et Chiavenna (Anzi), in monte Salève et circa Monvoisin (Müller), prope Mettmenstetten et Maschwanden (Hegetschweiler jr.).

616. **L. limborinella** Müll.-Arg. *Val.* p. 17 sub *Lecidea* (*Rimulariella*).

Ad saxa micaceo-quartzosa montis Weissmies 4000 m. (Wolf).

617. **L. urceolata** (Anzi *Man.* p. 157, id. *Lang.* 285) *Nyl.* in *lit.*

Ad saxa calcaria in monte Parete supra terminum Mughì (Anzi).

618. **L. cyclocarpa** (Anzi *Cat.* p. 97) *Nyl.* in *Flora* 1872 p. 554, Anzi *Lang.* 363.

Ad saxa calcaria et dolomitica in alpibus Rhaeticis (Anzi) et in Valsesia (Baglietto-Carestia).

619. **L. Valdobbiensis** Bagl.-Car. *Anacr.* p. 194 sub *Acarospora*.

Ad rupes schistosas prope hospitium in Valdobbia (Baglietto-Carestia).

L. Velana Mass. *Sert.* p. 75 et *Sched.* p. 155 sub *Acarospora* in monte Salève (Müller) dubia stirps.

u. Stirps *L. rubrae*.

620. **L. rubra** Ach. *L. U.* p. 389, *Nyl. Scand.* p. 171, Schaer. *L. H* 319, Hepp *K. Z.* 143 *Krypt. Bad.* 137, Schw. *Krypt.* 65.

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Ad arbores frondosas locis apertis in regionibus campestribus et montanis, rarissima in alpibus: Konstanz, Ermatingen, Rorschach (Stizenberger), Reichenau prope Chur (Theobald), Zürich, Liestal (Hepp), Riffersweil (Hegetschweiler), prope Biel, Lausanne, Rapperswyl, Blumenstein, in monte Jura et in Valisia (Schaerer).

II. — *Dirina* (Fr.) Nyl.

621. *D. repanda* (Fr. *L. E.* p. 177) Nyl. *Alger.* p. 313 et in *Flora* 1873 p. 200, Hepp *K. Z.* 157.

Ad „Nagelfluhe“ in monte Ütli prope Zürich et circa Baden (Hepp).

Subtrib. II. — *Pertusariei*.

I. — *Pertusaria* DC.

622. *P. bryontha* (Ach. *L. U.* p. 392) Nyl. *Scand.* p. 178, Hepp *Fl. E.* 424, Anzi *Lang.* 301.

Supra muscos et gramina destructa in sylvis Coniferarum editioribus et in alpibus rara: St. Moritz (Hepp), Piz Padella (Theobald), circa Bormio (Anzi), in montibus Urnensibus Rosstock et Rophaien (Gisler), in monte Bernensi Stockhorn (Schaerer).

623. *P. lutescens* (Hffm. *D. Fl.* II p. 195) Lamy *Cat.* p. 91, Schaer. *L. H.* 238, Hepp *Fl. E.* 680, Anzi *It. sup.* 351, 352.

Sterilis ad Quercuum et Castanearum corticem praesertim in regionibus mitioribus: Liestal (Hepp), Messen (Schaerer), Chiavenna (Anzi), in Valsesia (Baglietto-Carestia), in monte Salève (Müller).

- 624. P. communis** DC. *Fl. Fr.* 2 p. 320, *Nyl. Scand.* p. 178, Schaer. *L. H.* 118, Hepp *Fl. E.* 676, *Schw. Krypt.* 74 Anzi *It. sup.* 346, 347.

Ad corticem variarum arborum in regionibus campestribus et montanis.

- 625. P. areolata** (Ach. *Syn.* p. 109) *Nyl.* in *Flora* 1881 p. 456, Anzi *It. sup.* 348, *Erb. critt.* 397.

Ad rupes subumbrosas graniticas in montanis: Veltlin (Anzi), Uri (Gisler), Valsesia (Baglietto-Carestia).

- 626. P. coccodes** (Ach. *L. U.* p. 578) *Nyl. Scand.* p. 178, Schaer. *L. H.* 237, Hepp *Fl. E.* 678 (ff. steriles).

Ad Quercus et Cerasos prope Zürich (Hepp); cum fructibus prope Uerzlikon (Hegetschweiler jr.). Teste Fr. fil. *Scand.* p. 299 ex Helvetia in *Hb. Ach.* adest.

- 627. P. pustulata** (Ach. *L. U.* p. 309) *Nyl. Nov. Granat.* Ed. II p. 35, Anzi *Lang.* 223.

Ad arborum cortices prope Konstanz (Stizenberger), Como (Anzi) et in valle Mastalone (Baglietto-Carestia).

- 628. P. velata** (Turn. in *Trans. Linn. Soc.* IX t. 12 f. 1) *Nyl. Scand.* p. 179.

Semel legit in cortice ramorum Fagi prope Konstanz Stizenberger.

- 629. * P. multipuncta** (Turn. in *Trans. Linn. Soc.* IV p. 137 t. 10 f. 1) *Nyl. Scand.* p. 179 f. *sorediata* (Fr. *L. E.* p. 422 p. p.).

Ad arborum truncos in sylvis prope Lugano in Veltlin (Anzi) et prope Schwyz (Harz).

- 630. P. globulifera** (Turn. in *Trans. Linn. Soc.* IX p. 138) *Nyl. Add. Nov. Gran.* p. 546, *Scand.* p. 180 et in Lamy *Cat.* p. 89, Hepp *Fl. E.* 671.

Ad saxa Verrucano dicta: Mürtschenalp (Hepp).

(Pertusaria)

- 631. P. amara** (Ach. *Syn.* p. 131) Nyl. in *Flora* 1873 p. 22, Schaer. *L. H.* p. 597 (v. *discoidea* Hffm.), *Krypt. Bad.* 699B.

Ad truncos arborum sterilis.

- 632. P. lactea** (L. *Mant.* p. 132, Pers. in *Ust. N. Ann.* I p. 24) Nyl. in *Lamy Cat.* p. 90 et in *Flora* 1881 p. 539, Anzi *It. sup.* 199.

Saxicola in alpibus Rhaeticis (Anzi).

- 633. P. corallina** (L. *Mant.* p. 131) Arn. *Exs.* 204.

Sterilis (*Isidium corallinum* Ach.) ad saxa frequenter.

- 634. P. Stenhammari** Hellb. in *Vet. Ak. Förh.* 1865 p. 463, Fr. fil. *Scand.* p. 311.

Rarissima in cortice *Piceae pectinatae* prope Gossau (Hegetschweiler jr.).

- 635. P. Wulfenii** DC. *Fl. Fr.* 2 p. 320, Nyl. *Scand.* p. 181.

Corticicola (Nyl. *Par.* 49) in Helvetia deest. Var. *rupicola* Schaer. *En.* p. 229, Nyl. in *Flora* 1873 p. 71 ad saxa granitosa: Bergell (Schaerer), Veltlin (Anzi).

- 636. P. dactylina** (Ach. *Prodr.* p. 89) Nyl. *Lapp.* p. 180.

Status isidioideus ad terram in alpinis.

- 637. P. inquinata** (Ach. *L. U.* p. 353) Fr. fil. *Scand.* p. 311 p. p. non *P. nolens* Nyl. in *Flora* 1864 p. 489.

Ad saxa granitosa prope Tarasp (Jack).

- 638. P. degradata** Müll.-Arg. in *Flora* 1872 p. 468.

Ad saxa calcaria olim ut videtur igni exposita montis Salève (Müller).

- 639. P. Sommerfeltii** (Flk. in *Smmrf. Lapp.* p. 134) Nyl. *Scand.* p. 181, Hepp *Fl. E.* 937, Schw. *Krypt.* 479, Anzi *Lang.* 226.

Ad cortices imo ligna demortua Juniperi, Pini, Laricis, *Betulae ovatae*, Rhododendri in sylvis vallis

Malenco et vallium editiorum circa Bormio (Anzi), in monte Pilatus (Hepp), in montibus Urnensibus (Gisler).

- 640. P. leioplaca** (Ach. *Syn.* p. 110) Schaer. *Spic.* p. 66, Nyl. *Scand.* p. 181, Schaer. *L. H.* 119, Hepp *Fl. E.* 675, Anzi *It. sup.* 353, Rbh. *L. E.* 754.

Ad Fagos, Castaneas, Carpinos, Quercus, Platanos, Pinos in regione campestri, montana et subalpina: Konstanz (Stizenberger), Schaffhausen (Schenk), Zürich, Liestal (Hepp), Emmenthal, Buembachthal (Schaerer), circa Como et in Veltlin (Anzi), prope Genf (Müller), Neuenburg (Chaillet) et in Valsesia (Baglietto-Carestia). Var. *leucostoma* (Schaer. *En.* p. 229) Hepp *Fl. E.* 222 pr. p., 425, *Schw. Krypt.* 174, *Krypt. Bad.* 39, Rbh. *L. E.* 477, Anzi *Lang.* 224, id. *It. sup.* 354 ad Juglandes: Konstanz (Stizenberger), Zürich (Hepp), Schwyz (Harz), Veltlin et circa Como (Anzi), in Valsesia inferiore (Baglietto-Carestia) et prope Genf (Müller). Var. *alpina* (Hepp *Fl. E.* 936) *Schw. Krypt.* 480, Anzi *Lang.* 349, *Erb. critt.* 1239 ad Alnos in Maderanerthal (Hepp), ibidem et ad Fagos prope Riffersweil (Hegetschweiler jr.), ad *Sorbum Aucupariam* prope Schwyz (Harz), ad corticem laevigatum Abietum in Veltlin (Anzi).

- 641. P. glomerata** (Ach. *L. U.* p. 310) Nyl. *Scand.* p. 182, Schaer. *L. H.* 120, Hepp *Fl. E.* 681, Anzi *Lang.* 227.

Ad terram muscos incrustans, etiam ad cortices et ligna supra terminum arborum frondosarum praesertim in alpibus calcariis: Rhaetia (Brunner, Hepp, Anzi), Rigi (Hepp), Pilatus, Stockhorn, vallis Oeschenen, Grimsel (Schaerer), Belmi, Ross-

(Pertusaria)

stock (Gisler), prope hospitium in Valdobbia et in Alagna (Baglietto-Carestia), in montibus Vergy, Brizon et Colombier prope Genf (Reuter, Müller).

- 642. P. carneopallida** Nyl. (in *Bot. Not.* 1853 p. 183, *Scand.* p. 196) in *Flora* 1868 p. 478, Anzi *Lang.* 225, *Erb. critt.* 937.

Supra corticem Betulae et Coryli ad radicem montium in Veltlin et in vallibus Bormiensibus Tartano, del Bitto. di Dentro et Furva (Anzi).

- 643. P. isidioidea** (Schaer. *En.* p. 230 p. p.) Nyl. in *Flora* 1874 p. 311, Anzi *It. sup.* 349.

Castaneaecola circa Como (Anzi).

P. amarescens Nyl. in *Flora* 1874 p. 311, Anzi *It. sup.* 350 basalticola in provincia Veronensi (Massalongo).

P. lactescens Mudd *Man.* p. 272, *Cromb. Brit.* 59 in *Leight. Great Brit.* Ed. III p. 227 pro Helvetia indicatur.

II. — *Varicellaria* Nyl.

- 644. V. microsticta** Nyl. *Scand.* p. 183.

Ad ligna vetusta Coniferarum (Nyl. l. c.), in valle Engadin (Hochstetter), ad infimos Laricum vetustarum truncos supra Champey (Müller) et in valle Bagnes (Privat).

Subtrib. III. — *Thelotremei*.

I. — *Phlyctis* Wallr.

- 645. P. agelaea** Wallr. *Flor. Germ.* III. p. 553, Nyl. *Scand.* p. 184, Hepp *Fl. E.* 703, 704, *Krypt. Bad.* 530, Anzi *It. sup.* 345.

Ad cortices arborum prope Konstanz (Stizenberger), Zürich (Hepp), Riffersweil, Knonau, Baar (Hegetschweiler jr.) et Genf (Müller).

- 646. P. argena** (Flk. *Berl. Mag.* 1807 p. 13) Wallr. *Flor. Germ.* III p. 466, Nyl. *Scand.* p. 18.

Ad Castanearum truncos annosos prope Mornex (Müller), ad *Abietem pectinatam* (10—20m. supra solum) prope Mettmenstetten et ad Alnos et Quercus vetustas prope Riffersweil (Hegetschweiler jr.).

II. — *Thelotrema* Ach.

- 647. T. lepadinum** Ach. *L. U.* p. 312, Nyl. *Scand.* p. 185, Schaer. *L. H.* 121, Hepp *Fl. E.* 948.

Ad truncos Pini in regione montana et subalpina: in montibus Napf et Gurnigel (Schaerer), Grünwald, Seedorf, Schattdorf (Gisler). Rarissima in planitie: ad Quercus prope Basel (Schenk), ad *Abietem pectinatam* prope Gossau (Hegetschweiler jr.).

III. — *Urceolaria*.

- 648. U. actinostoma** Pers. in Ach. *L. U.* p. 288, Nyl. *Prodr.* p. 96, Anzi *It. sup.* 232.

Ad saxa serpentinoso in praeruptis montium Rhaeticorum: Chiesa in valle Malenco (Anzi).

- 649. U. ocellata** (Vill. *Delph.** 3 p. 988) DC. *Fl. Fr.* 2 p. 372, Nyl. *Prodr.* p. 95, Schaer. *L. H.* 477.

* Cf. Nyl. *Arm.* p. 405. Nylander certissime longe maxime contribuit extricandis nominibus Lichenum explicandisque iis, quae dederunt veteres autores. Ceteroquin Acharii herbarium acute examinatis omnibus typis Acharianis et aliis Patrum Lichenographiae in eo conservatis cognitum fecit. Similiter quos herbaria praecipua gallica et anglica offerrunt typos authenticos, rite ille determinavit, quod hic recordari conveniat.

(Urceolaria)

Ad terram et saxa locis apricis: in Valisia (Schleicher), prope Neuchâtel (Cornaz).

- 650. U. scruposa** (L. *Mant.* p. 131) Ach. *Meth.* p. 147, Nyl. *Prodr.* p. 96, Schaer. *L. H.* 289, Hepp *K. Z.* 151, id. *Fl. E.* 915, Schw. *Krypt.* 359, Anzi *It. sup.* 227, 228.

Ad saxa praesertim granitica, raro ad muscos in regionibus campestribus et alpinis. F. *arenaria* Ach. in Schaer. *Spic.* p. 75, Schaer. *L. H.* 132 ad arenam et saxa arenacea prope Bern (Schaerer), Muothathal (Harz), Chur (Theobald), Genf (Müller). Var. *parasitica* (Smmrf. *Suppl.* p. 100) Nyl. *Scand.* p. 177 supra squamas *Cladoniae pyxidatae* in valle Furva (Anzi).

- 651. U. bryophila** (Ehrh. *Pl. Cr.* 236, Ach. *Meth.* p. 148, Nyl. *Scand.* p. 177) id. in Norrl. *Kar.* p. 27, Schaer. *L. H.* 290, Hepp *K. Z.* 153, id. *Fl. E.* 210, Schw. *Krypt.* 360, *Krypt. Bad.* 531, Rbh. *L. E.* 638.

Ad terram, muscos et muros in regionibus campestribus et alpinis, haud rara.

- 652. U. gypsacea** Ach. *Syn.* p. 142, Nyl. in Norrl. *Kar.* p. 27, Schaer. *L. H.* 291, Hepp *K. Z.* 154, id. *Fl. E.* 916, Rbh. *L. E.* 637.

Ad terram apricam, muros et saxa: Konstanz (Stizenberger), Zürich (Hepp), Calanda (Theobald), Muothathal (Harz), Tarasp et Stachelberg (Jack), Belmi, Selisberg (Gisler), Salève (Müller), Valisia mitior (Schaerer).

Subtrib. IV. — Lecideei.

I. — **Lecidea** Ach.A. *Gyalecta* Ach.

- 653. L. exanthematica** (Sm. *E. B.* t. 1184) Nyl. *Prodr.* p. 101, id. *Scand.* p. 188, Schaer. *L. H.* 122, Hepp *Fl. E.* 206, Anzi *It. sup.* 235.

Ad saxa calcaria alpium et montis Jurae vulgaris: Tarasp (Theobald), Como (Anzi), St. Moritz, Zürich (Hepp), Ebenalp (Stizenberger), Brunnithal, Siskon (Gisler), Pilatus (Sickenberger-Solms), Stockhorn, Suleck, Grimsel (Schaerer), Salève (Müller), Valsesia inferior (Baglietto-Carestia).

- 654. L. thelotremoides** Nyl. *Prodr.* p. 102, id. *Scand.* p. 189, Anzi *Lang.* 82.

Ad rupes calcarias et dolomiticas: circa Como et in Puschlav (Anzi), prope Stachelberg, Interlaken et Saxeten (Metzler), in monte Pilatus (Hegetschweiler jr.) necnon ad rupium calcariarum latera montis Salève supra Veyrier socia sequentis et *Lecanorae carneopallentis* (Müller).

- 655. L. hyalina** (Hepp apud Arn. in *Flora* 1858 p. 332) Nyl. *En.* p. 337, Syn. *Gyalecta lecideopsis* Mass. *Misc.* p. 39.

Ad saxa calcaria montis Salève (Müller), ad saxa arenaria „in der Bachtelen“ prope Zug (Hegetschweiler jr.), in arce Brand prope Altorf (Gisler), in Valdobbia (Baglietto-Carestia).

- 656. L. subclausa** Anzi *Neos.* p. 8 sub *Gyalecta*..

Ad saxa dolomitica inumbrata montis Grona supra Plesia prope Lacum Verbanum rara (Anzi).

(Lecidea)

657. L. pseudogeonica Anzi *Symb.* p. 11 sub *Gyalecta*.

Supra terram calcis partes continentem in monte Braulio 1820—2100 m. unacum *Sarcosagio biatorello*.
(Anzi).

658. L. cupularis (Hedw.) Ach. *Meth.* p. 170, Nyl. *Scand.* p. 189, Schaer. *L. H.* 135, Hepp *K. Z.* 145, 146, id. *Fl. E.* 142.

Ad saxa calcaria, arenaria et Nagelfluhe dicta locis umbrosis planitiei et alpium frequens.

659. L. scutellaris Bagl.-Car. *Comm. critt. it.* I 442 sub *Gyalecta*.

Ad terram muscosam in Valdobbia rarissima (Baglietto-Carestia).

660. L. elegantula Müll.-Arg. in *Flora* 1868 p. 370 sub *Gyalecta*.

In cryptis calcariis ad pedem montis Salève (Müller).

661. L. peziza (Mnt. *Ann. sc. nat.* III Ser. XI p. 38) Schaer. *En.* p. 143, Anzi *Lang.* 133, *Erb. critt.* 1237.

Ad terram locis rupestribus graniticis alpium editissimaram Bormiensium Zebrù, Calàr, Rocca (Anzi), in alpe Olen et prope hospitium in Valdobbia (Carestia).

662. L. leucaspis (Krmplh. in *Flora* 1857 p. 374) Nyl. *ib.* 1868 p. 162.

In cryptis calcariis ad pedem montis Salève (Müller).

Var. *acicularis* (Anzi *Cat.* p. 62) Nyl. in *lit.*, Anzi *Lang.* 81 ad rupes dolomiticas umbrosas secus lacum di Poschiavo et ad saxa calcaria umbrosa prope Bormio (Anzi), in monte Fenera (Baglietto-Carestia).

663. L. foveolaris (Whlnb. *Lapp.* p. 405) Nyl. *Scand.* p. 190, Anzi *Lang.* 131.

Ad terram muscosam locis rupestribus agri Bormien-
sis (Anzi) et in montibus Rossstock et Huffistock
(Gisler).

- 664. L. geioca** (Whlbn. in *V. Ac. H.* 1806 p. 142) Nyl.
Scand. p. 190, Schaer. *L. H.* 293, Anzi *Lang.* 132.

Ad terram inter rupes calcarias supra arborum ter-
minum in alpe di Trella prope Bormio (Anzi), in
montibus Gemmi et Gantrisch (Schaerer) et prope
Monnetier in monte Salève (Müller).

- 665. L. protuberans** (Ach. *L. U.* p. 328) Schaer. *En.* p. 117,
Nyl. *Scand.* p. 207, Schaer. *L. H.* 203, Hepp *K. Z.* 178,
Anzi *It. sup.* 234.

Ad saxa calcaria Jurae et alpium: in monte Dolaz,
ad thermas Weissenburgenses, in monte Stockhorn,
in valle Gastern (Schaerer), Hoherohne (Hepp),
prope Bormio (Anzi), in monte Tournette supra
Aigle (Müller).

- 666. L. truncigena** (Ach. *L. U.* p. 152) Nyl. *Prodr.* p. 102,
id. *Scand.* p. 190, Hepp *K. Z.* 147, id. *Fl. E.* 27.

Ad cortices arborum frondosarum: Konstanz (Stizen-
berger), Zürich, Engadin (Hepp), Bürgeln, Rütli,
(Gisler), prope Genf (Müller).

- 667. L. congruella** Nyl. in *Mus. Fenn. et Scand.* p. 191,
Syn. *Secoliga fagicola* (Hepp in *lit.*) Krb. *Pg.* p. 112.

Ad corticem Betulae et Fagi prope Knonau (Heget-
schweiler jr.).

- 668. L. querceti** Nyl. *Scand.* p. 191.

Ad truncos vetustos *Pyri communis* prope Kappel et
Knonau (Hegetschweiler jr.).

- 669. L. carneola** Ach. *L. U.* p. 194, Nyl. *Scand.* p. 191,
Anzi *It. sup.* 261.

(Lecidea)

Ad corticem Alni in Maderanerthal (Gisler) et *Pini piceae* in valle Furva (Anzi), Aathal et Hinweil (Hegetschweiler jr.).

Stirps ambigua illa a D^{re} Arnold in *Flora* 1870 p. 129 *Secoliga indigens* nominata, quam D^r Rehm *Ascom.* 85 fungis adscripsit, ad saxa arenaria „in der Bachtelen“ prope Zug et circa Gossau a D^{re} Hegetschweiler jre. observata est.

B. Biatora.

a. Stirps *L. luridae*.

- 670. *L. lurida*** Ach. *Meth.* p. 77, Nyl. *Scand.* p. 192, Schaer. *L. H.* 157, Hepp *K. Z.* 162, id. *Fl. E.* 121, Rbh. *L. E.* 9, Anzi *It. sup.* 239, Schw. *Krypt.* 369 p. p.

Ad rupes calcarias tenui terra obtectas et in earum fissuris per Juram et alpes vulgaris. Ad saxa granitosa prope S. Antonio in Val Sotto (Anzi).

- 671. *L. globifera*** Ach. *L. U.* p. 213, Nyl. *Scand.* p. 193, Schaer. *L. H.* 158, Hepp *Fl. E.* 489, Rbh. *L. E.* 642, Anzi *Lang.* 263, *Erb. critt.* 1231.

Alpicola supra terram in rupium fissuris: Rhaetia (Theobald, Metzler, Anzi), St. Gotthard, Scheibenhüh, Susten, Öschenenthal (Schaerer), Locarno (Franzoni), Zermatt (Müller), Riva (Carestia).

- 672. *L. rubiformis*** Whlnb. *Lapp.* p. 479, Nyl. in Lamy *Cat.* p. 96, Anzi *Lang.* 137.

In fissuris terrosis rupium serpentinearum juxta nives perpetuas in supremo jugo dei Dossi inter pagos Semogo et Trepalle (Anzi).

- 673. *L. brunnea*** (Anzi *Man.* p. 152).

Ad saxa micaschistosa in alpibus Rhaeticis vicina nivium aeternarum (Anzi).

- 674. L. melanophaea** Anzi *Symb.* p. 15 sub *Biatorina*, (non Fr. *Vet. Ak. Handl.* 1822 p. 259).

Ad saxa micaceo-schistosa in alpe Aresina vallis Furva (Anzi).

Monente Nylander sporae ei sunt simplices.

- 675. L. testacea** Ach. *Meth.* p. 80, Nyl. *Scand.* p. 193, Schaer. *L. H.* 468.

Ad saxa calcaria et in eorum fissuris: in arce Valesiaca Tourbillon (Schaerer), in Creux du vent (Chaillet).
F. *glomerulifera* Müll. *Hb.* in monte Salève (Müller).

b. Stirps *L. vernalis*.

- 676. L. cinnabarina** Smmrf. in *V. Ak. H.* 1823 p. 115, Nyl. *Scand.* p. 194, Hepp *Fl. E.* 485, Schw. *Krypt.* 265.

Ad infimos Pinorum truncos locis udis in alpibus Urnensibus (Gisler, Hegetschweiler jr.), Bernensibus (Schaerer), prope Genf (Müller) et in monte Plaida (Baglietto-Carestia).

- 677. L. Ehrhartiana** Ach. *Meth.* p. 73, Nyl. *Scand.* p. 195, Schaer. *L. H.* 192, 326, Hepp *Fl. E.* 497, *Krypt. Bad.* 686 (spermogonifera), Anzi *It. sup.* 248.

Ad corticem Quercus et ligna vetusta.

- 678. L. lucida** Ach. *Meth.* p. 74, Nyl. *Scand.* p. 195, Schaer. *L. H.* 225, Anzi *Lang.* 123, *Erb. critt.* 1393.

Ad rupes arenarias, graniticas et gneissiacas necnon in murorum fissuris a planitie usque ad terminum superiorem Mughi ascendens: Rhaetia (Anzi), Bristen et Riffersweil (Hegetschweiler jr.), Belpberg, Hasligrund (Schaerer), supra Intschi (Gisler), in Valsesia (Giordani, Baglietto-Carestia).

- 679. L. amabilis** Müll.-Arg. *L. Val.* p. 5.

(Lecidea)

In pede montis Schwarzhorn supra Tourtemagne
(Privat).

Teste Müller (l. c.) *L. laevigatae* Nyl. *En.* p. 143 proxima.

680. *L. phaeops* Nyl. *Scand.* p. 196.

Propter ripas fluminis Arve (Rome).

681. *L. coarctata* (Ach. *L. U.* p. 352) Nyl. *Prodr.* p. 112,
id. *Scand.* p. 196. (Huc etiam *L. listrota* Ach. *Syn.*
p. 150.)

Supra lapides praesertim calcarios planitiei, vix ultra terminum Abietum progrediens: Schaffhausen (Schenk), Riffersweil (Hegetschweiler), Meyringen et in sylva Than prope Bern (Schaerer). Var. *microphyllina* Fr. *L. E.* p. 105 in monte Salève (Müller). Var. *cotaria* (Ach. *Meth.* Suppl. p. 11) Nyl. in Norrl. *Kar.* p. 27 ad saxa arenaria prope Genf (Müller). Var. *elacista* (Ach. *Meth.* p. 159) Nyl. *Prodr.* p. 112, Schaer. *L. H.* 312, Hepp *Fl. E.* 186, Anzi *It. sup.* 206 ad saxa in sylvis: Konstanz (Stizenberger), Zürich, St. Moritz (Hepp), Veltlin (Anzi), Attinghausen, Rossstock (Gisler), Locarno (Baglietto), prope Genf (Müller), ad rupes micaceas imo ad terram nudam in Valsesia (Baglietto-Carestia).

682. **L. ocrinaeta* Ach. *L. U.* p. 380, Nyl. in Lamy *Cat.* p. 97.

„In saxis et rupibus Helvetiae“ Ach. l. c.

683. **L. Brujeriana* (Schaer. *En.* p. 77) Nyl. *En.* p. 122.

Ad saxa prope Schaffhausen (Schenk) et parcius ad lapides humidus circa Gossau (Hegetschweiler jr.).

684. *L. arridens* Nyl. in *Flora* 1876 p. 573.

Ad saxa quartzosa prope Mettmenstetten (Hegetschweiler jr.).

685. *L. glebulosa* (Fr. *L. E.* p. 252) Nyl. *Prodr.* p. 111,
Anzi *Lang.* 171.

(Lecidea)

Ad lapides arenarios humidos in valle Travaglio (Anzi),
ad saxa granitica in vallibus Albignia (Theobald)
et Mastallone (Baglietto-Carestia).

- 686. L. decolorans** Flk. *D. L.* 142, *Nyl. Scand.* p. 197, Schaer.
L. H. 213, 214, Hepp *K. Z.* 217, 218, id. *Fl. E.* 271,
Anzi *Lang.* 170, id. *It. sup.* 247.

Supra terram turfosam et ligna putrida e regione
campestri summas in alpes ascendens.

- 687. * L. flexuosa** (Fr. *L. E.* p. 268) *Nyl. Prodr.* p. 110, id.
Scand. p. 137.

Ad ligna et truncos demortuos in Veltlin (Anzi) et
prope Seedorf (Gisler). *F. intricata* Müll.-Arg. in
Flora 1867 p. 435 ad truncos putridos Pinorum
in monte Salève (Müller).

- 688. L. rufofusca** (Anzi *Cat.* p. 76) *Nyl.* in *Flora* 1869 p. 409,
Anzi *Lang.* 178.

Ad gramina herbasque destructas in regione nivosa
alpium quam graniticarum tam calcariarum: Lia,
Rezzolungo in valle di Dentro, Campofinale supra
Poschiavo (Anzi), ad corticem *Rhododendri hirsuti*
in Erstfelderthal (Hegetschweiler jr.).

- 689. L. fuscovirens** (Bagl.-Car. in *Comm. critt. it.* I p. 444).

Ad truncos *Castaneae vescae* prope Scopello (Bag-
lietto-Carestia).

„Vix nisi varietas *L. rufofuscae*“ *Nyl. in lit.*

- 690. L. pullata** Norm. *Vet. Ak. Handl.* 1870 p. 803, *Nyl.* in
Flora 1881 p. 184, Syn. *Biatora amaurospoda* Anzi
Symb. p. 13 Nr. 43.

Ad truncos Coniferarum putridos in termino superiore
vegetationis arboreae: in alpe Suèna vallis di Sotto
(Anzi) et in sylvis vallis Vogna supra Riva (Bag-
lietto-Carestia).

(Lecidea)

- 691. L. uliginosa** Ach. *Meth.* p. 45, Nyl. *Scand.* p. 198, Schaer. *L. H.* 162, 163, Hepp *K. Z.* 215, id. *Fl. E.* 132, Anzi *It. sup.* 249.

Supra terram turfosam humosamque e planitie in alpes progrediens.

- 692. L. fuliginea** Ach. *Syn.* p. 35, Nyl. in Lamy *Cat.* p. 98, Hepp *Fl. E.* 267, Anzi *Lang.* 175.

Ad truncos putridos: Zürich (Hepp), Veltlin, Bormio, Livigno (Anzi), Salève (Müller), ad terram muscosam prope Konstanz (Stizenberger).

- 693. * L. botryosa** (Fr. *L. E.* p. 275) Nyl. in Norrl. *Tavast.* p. 186.

Ad arenam siccam montis Salève (Müller).

- 694. L. atrorufa** (Dicks. *Crypt.* 4 p. 12) Ach. *Meth.* p. 74, Nyl. *Scand.* p. 199, Schaer. *L. H.* 171, Hepp *Fl. E.* 122, Schw. *Krypt.* 475, Anzi *It. sup.* 238, *Erb. critt.* 274.

Ad terram summarum alpium et calcariarum et granitosarum vulgaris, etiam in Jurae monte Chasseron (Schaerer).

- 695. L. botryiza** Nyl. in *Flora* 1874 p. 10 et 1881 p. 455, *Syn. L. modesta* Müll.-Arg. ib. 1871 p. 403.

Saxicola ad Pont de Nant prope Plans supra Bex (Müller).

- 696. L. Metzlerii** (Krb. *Pg.* 162) Rich. *Deux-Sèvres* p. 38, *Syn. L. oolithina* Nyl. in *Flora* 1862 p. 464.

Ad saxa tofacea montis Salève (Müller).

- 697. L. lenticella** (Arn. in *Flora* 1869 p. 258).

Calcicola prope Monvoisin (Müller).

- 698. L. chondrodes** (Mass. *Symm.* p. 39) Rich. *Deux-Sèvres* p. 39.

Prope Monnetier (Müller).

- 699. L. calcivora** (Ehrh. *Pl. cr.* 244) Nyl. *Prodr.* p. 135, Schaer. *L. H.* 201 p. p., Hepp *K. Z.* 194, id. *Fl. E.* 240, Anzi *It. sup.* 266.

Ad saxa praesertim calcaria in regionibus campestribus et alpinis. *F. rhodoplaca* (Wallr. *Flor. Germ.* III p. 362) prope Neuenburg (Chaillet). *FF. ochracea* Schaer. *En.* p. 127 et *flavescens* (Anzi *Etr.* 38) in monte Salève (Müller).

- 700. L. viridescens** (Schrad. *Spic.* p. 88) Ach. *Meth.* p. 62, Nyl. *Scand.* p. 206, Schaer. *L. H.* 208, Anzi *Lang.* 176.

Ad truncos et asseres putridos, etiam supra arborum corticem in sylvis abiegnis prope Bern et in valle Buembach (Schaerer), prope Neuchâtel (Chaillet), in Veltlin (Anzi).

- 701. L. sanguineoatra** Ach. p. p., Fr. *L. S.* 223, Nyl. *Scand.* p. 199, Anzi *Lang.* 181.

Vulgaris ad terram et muscos in agro Bormiensi (Anzi), in montibus Olen (Baglietto-Carestia) et Salevula necnon prope Voirons (Müller).

- 702. *L. atrofusca** (Fw. in *lit.*) Nyl. in Wainio *Tavast.* p. 110, Hepp *Fl. E.* 268, Anzi *Lang.* 180.

Frequens supra muscos, herbas exsiccatas et terram in regione subalpina et alpina: in montibus Rhaeticis (Hepp, Theobald, Killias, Anzi), Urnensibus (Gisler), Pilatus (Hepp), in Valsesia (Baglietto-Carestia), circa Genf (Müller).

- 703. L. fuscorubens** Nyl. in *Bot. Notis.* 1853 p. 183, id. *Scand.* p. 199.

Ad calcem in sylvis Coniferarum circa Bormio et Livigno (Anzi) et prope Monvoisin (Müller).

Pro Helvetia nonnihil incerta.

(Lecidea)

- 704. L. anomaliza** Nyl. in *Flora* 1866 p. 374.
Ad saxa in monte Reculet (Müller). Var. *alpestris*
Arn. *Exs.* 412 calcicola in monte Grand Muveran (id.).
- 705. L. dejecta** Müll.-Arg. in *lit.*
Saxicola in monte Salève (Müller).
- 706. L. ochracea** (Hepp *Fl. E.* 263) Nyl. in *Hb. Lojka*.
Ad saxa calcaria jurassica prope Liestal (Hepp), Zug
(Hegetschweiler jr.) et in monte Salève, ubi mox
apotheciis humectatis atrofuscis mox thallo magis
evoluto (*L. fallax* Krb. in *lit.* ad Lahm et *L. S. G.*
376) a typo recedit (Müller). *F. lignicolam* Nyl.
in *lit.* ad lignum humidum in monte Albis legit
Hegetschweiler.
- 707. L. subacervata** Müll.-Arg. in *Flora* 1872 p. 486.
Ad saxa dolomitica montis Reculet (Müller).
- 708. L. monticola** (Ach. *L. U.* p. 328?, Hepp *Fl. E.* 262).
Ad saxa erratica prope Zürich (Hepp), ad saxa cal-
caria montium Lägern (id.), Salève (Müller), Scala
prope Bormio (Anzi), prope Schwyz (Harz) et in
valle Vogna (Baglietto-Carestia).
- 709. L. Diapensiae** Fr. fil. *Arct.* p. 209, Nyl. *Lapp.* p. 144.
Supra muscos in monte Grand Muveran (Müller).
- 710. L. cuprea** (Smmrf. *Lapp.* p. 165) Nyl. *Scand.* p. 199.
In monte Piz Minschun (Killias).
- 711. L. Berengeriana** (Mass. *Ric.* p. 128) Nyl. *Lapp.* p. 144.
Supra terram et muscos vetustos in summo monte
Braulio (Anzi), in monte Pilatus (Sickenberger-
Solms), in alpibus Bernensibus et Valisiae (Metzler),
circa Bex (Mortier) et in Valsesia (Baglietto-
Carestia).
- 712. L. lutosa** Schaer. *En.* p. 116, id. *L. H.* 579 p. p., Hepp
Fl. E. 506, Anzi *Lang.* 360.

- Ad saxa calcaria: circa Bormio (Anzi), Neuchâtel (Hepp) et Genf (Müller).
- 713. *L. fusca*** Borr. in *lit.* (?), Naeg. in Hepp *Fl. E.* 11 sub *Biatora*, Hepp *K. Z.* 228, Anzi *Lang.* 335.
Ad muscos herbasque destructas in alpibus Rhaeticis (Anzi, Hepp), prope Zürich (Hepp), Interlaken (Laurer), in montibus Salève et Dôle (Müller).
- 714. *L. atropurpurea*** (Schaer. *Spic.* p. 165) id. *En.* p. 140, Nyl. in *Flora* 1873 p. 294, Schaer. *L. H.* 206, Hepp *K. Z.* 226, id. *Fl. E.* 279.
Ad arborum praesertim Abietum corticem in sylvis montanis: prope Zürich (Hepp), Riffersweil, Gossau (Hegetschweiler jr.), Bern (Schaerer).
- 715. *L. subpulcaris*** (Anzi *Symb.* p. 15) Nyl. in *lit.*, Anzi *Lang.* 337.
Ad corticem *Pini piceae* in sylvis densioribus vallis di Dentro (Anzi).
Affinis *L. atropurpureae* (Schaer.) sed thecis 8—12 sporis.
- 716. *L. dodecamera*** Müll.-Arg. in *Flora* 1872 p. 483.
Ad Abietes juniores in monte Salève (Müller).
- 717. *L. prasinorufa*** Nyl. in *lit.*
Ad terram in sylva montis Albis (Hegetschweiler jr.).
- 718. *L. gelatinosa*** Flk. in *Berl. Mag.* 1809 p. 201, Nyl. *Prodr.* p. 110 (*L. viridescens* var.), Schaer. *L. H.* 205, Hepp *Fl. E.* 493.
Ad terram et infimos arborum truncos in sylvis campestribus et montanis: Rigi (Hepp), prope Bremgarten, Signau et in monte Gurnigel (Schaerer), in Valsesia (Baglietto-Carestia).
- 719. *L. Lightfootii*** (Sm. *E. B.* t. 1451) Ach. *L. U.* p. 177, Nyl. *Prodr.* p. 105 var. *commutata* (Ach. *L. U.* p. 352) Schaer. *En.* p. 138, id. *L. H.* 581.

(Lecidea)

Ad corticem Pinorum in sylvis horridis (Schleicher, Schaerer), rarissima fertilis ad Abietes prope Oberuster (Hegetschweiler jr.).

- 720. L. vernalis** (*L. Syst. nat.* ed. 2 p. 234) Ach. *Meth.* 68, Nyl. *Scand.* p. 200, Anzi *Lang.* 179.

Ad terram turfosam, herbas demortuas et muscos in regione Mughii et nivosa alpium: circa Bormio et in Veltlin (Anzi), in Valsesia (Baglietto-Carestia), in pede montis Schwarzhorn supra Tourtemagne (Privat). *F. fallax* Hepp *Fl. E.* 505 ad muscos et in cortice *Abietes excelsae* in alpibus (Gisler, Baglietto-Carestia).

- 721. * L. subduplex** Nyl. (*Scand.* p. 201) in *lit.*, Syn. *Biatorina pilularis* Krb. *Pg.* p. 136 non *Lichen pilularis* Dav. in *Act. Soc. Linn. Lond.* 2, Hepp *Fl. E.* 742.

Rara ad terram muscosam in sylvis circa Como (Anzi), ad terram limosam prope Buonas ditionis Zug (Hegetschweiler jr.), ad infimos truncos arborum in sylvis circa Riva et Mollia (Baglietto-Carestia), ad Fagos juniores in monte Salève (Müller, Rome).

- 722. L. helvola** (Krb., Hellb. in *Vet. Ak. Förh.* 1867 p. 271) Fr. fil. *Scand.* p. 429, Nyl. in *Norrl. Kar.* p. 28.

Ad corticem putrescentem *Abietis excelsae* in Madaranerthal (Hegetschweiler jr.).

- 723. L. Gisleri** (Hepp in *lit.*) Anzi *Lang.* 380.

Ad truncos Rhododendri in alpibus Bormiensibus (Anzi) et in alpe Sella vallis Vogna Valsesiae (Baglietto-Carestia).

- 724. L. sylvana** (Krb. *S. L. G.* p. 200) Fr. fil. *Scand.* p. 430, Nyl. in *Flora* 1876 p. 306 et 1881 p. 179.

Ad corticem Rhododendri in vallibus Sermenza et

- Vogna (Baglietto - Carestia) et *Pyri mali* prope Aeugst (Hegetschweiler jr.).
- 725. * *L. meiocarpa*** Nyl. in *Flora* 1876 p. 577, Schaer. *L. H.* 211 p. p., Hepp *K. Z.* 220, id. *Fl. E.* 17, 487, 733, *Schw. Krypt.* 363.
Ad cortices et ligna praesertim Coniferarum: Zürich (Hepp), Schaffhausen (Schenk), circa Como (Anzi), ad Cerasorum cortices et radices arborum denudatas prope Mettmenstetten et Riffersweil imo ad lapides humidus prope Gossau (Hegetschweiler jr.). Etiam in alpes ascendit, ubi ad corticem Rhododendri non rara: in montibus Urnensibus (Gisler, Hegetschweiler jr.), Grand Muveran (Müller).
- 726. *L. symmictella*** Nyl. in *Flora* 1868 p. 163.
Ad lignum Pini (Secretan *Mycogr. Suisse* III p. 625).
- 727. *L. globularis*** (Ach. *Hb.*) Nyl. *Scand.* p. 213.
Ad ligna abietina putrida prope Affoltern (Hegetschweiler jr.).
- 728. *L. pumilionis*** (Rehm in Arn. *Exs.* 138) Nyl. in *Flora* 1872 p. 248.
In Valsesia (Baglietto-Carestia) et in monte Reculet (Müller).
- 729. *L. prasinella*** Müll.-Arg. in *Flora* 1872 p. 484.
Ad corticem Laricum in sylvula supra Bovernier Valisiae inferioris (Müller).
- 730. *L. sylvicola*** Fw. *Lich. sel.* 179, Krb. *L. S. G.* 75, Nyl. *Lapp.* p. 185.
Ad saxa erratica supra Monnetier prope Genf (Müller), ad saxa micaceo-schistosa umbrosa humida in Val Furva (Anzi) et supra Gampeln (Gisler).
- 731. *L. conferenda*** Nyl. in *Flora* 1868 p. 418.

(Lecideia)

- Supra lapides ad oras sylvarum prope Gossau (Hegetschweiler jr.).
- 732. *L. lobulata*** (Hepp in *Hb. Metzl.*) Nyl. in *Flora* 1875 p. 12.
Ad rupes circa Felsberg (Metzler).
- 733. *L. expansa*** Nyl. in Leight. *Exs.* 186, Syn. *L. dispansa*
Nyl. in *Flora* 1866 p. 86 et *L. erratica* Krb.
Ad lapides locis humidis in sylvis prope Uster (Hegetschweiler jr.).
- 734. *L. Arnoldi*** (Krmplh. in *Flora* 1855 p. 72) Nyl. ib. 1879
p. 223.
Ad saxa calcaria in pede montis Salève (Müller).
- 735. *L. leucospila*** Anzi *Lang.* 156, Nyl. in *lit.*
Ad rupes calcarias supra terminum arborum in valle
Pisella prope Bormio (Anzi).
- 736. *L. neglecta*** Nyl. *Scand.* p. 224.
Sterilis supra muscos destructos in Maderanerthal
(Hegetschweiler jr.).
- 737. *L. proxima*** Anzi *Man.* p. 155.
Ad ramos Laricis nudos emortuos in Val Vièra prope
Livigno (Anzi).
- 738. *L. ocelliformis*** Nyl. in *Flora* 1865 p. 145 var. *sub-*
globulosa Nyl. ib. 1867 p. 327, Syn. *Biatora atroviridis*
Arn. *Exs.* 277.
Ad corticem *Abietis excelsae* siccum supra Riva (Baglietto-Carestia).
- 739. *L. turgidula*** Fr. *L. S.* 25, Nyl. *Scand.* p. 201, Schaer.
L. H. 529, Hepp *K. Z.* 203, id. *Fl. E.* 269, Anzi *It.*
sup. 273, *Erb. critt.* 1234.
Ad cortices, truncos denudatos et ligna Pinorum nec
non ad radices Castanearum frequens in sylvis al-
pium et vallium alpinarum.

740. L. Cadubriae (Mass. *Sched.* 176) Nyl. in *Flora* 1873 p. 294, Anzi *Lang.* 169, Rbh. *L. E.* 731, *Erb. critt.* 1170.
Ad Coniferarum corticem: Grünwald, Gampeln (Gisler), Riffersweil (Hegetschweiler jr.), Riva (Carestia), Bormio (Anzi).

741. L. obscurella (Smmrf. *Crypt. Norv.* 132) Nyl. *Lapp.* p. 147, Hepp *Fl. E.* 253 p. p.

Ad Piceas vetustas circa Gossau (Hegetschweiler jr.) et Riva (Carestia), ad corticem Laricis in sylva „de Batie“ prope Genf (Müller) et prope Zürich (Hepp).

c. Stirps *L. globulosae*.

742. L. holophaea (Anzi *Anal.* p. 15) Nyl. in *lit.*, Anzi *Lang.* 260.

Ad corticem glabrum Juglandum in radice montium prope Fusine in Veltlin et prope Como (Anzi).

743. L. globulosa Flk. *D. L.* 181, Nyl. *Lapp.* p. 149, Hepp *K. Z.* 193, id. *Fl. E.* 16, Anzi *It. sup.* 258.

Ad cortices Laricum et Pinorum, rarissime supra muscos emortuos (Bagl.-Car. *Anacr.* p. 300): Zürich (Hepp), St. Wolfgang prope Zug (Hegetschweiler jr.), Gampeln (Gisler), Rhaetia (Hepp, Anzi), in Vallesia (Baglietto-Carestia).

Huc ducenda: *Bilimbia pyrenocarpoides* Anzi *Anal.* p. 15.

744. L. albohyalina Nyl. *Scand.* p. 203 et in *Flora* 1876 p. 557.

In cortice Sambuci prope Alagna (Baglietto-Carestia) et *Betulae ovatae* in valle di Rezzo (Anzi *Symb.* p. 14 sub *Biat. micrococca*).

745. L. lignaria (Krb. *Pg.* p. 154) Nyl. in *Flora* 1881 p. 455.

Ad truncos putrescentes Coniferarum in radice montis Grand Muveran (Müller).

(Lecidea)

- 746. *L. hypoptoides*** Nyl. in *Flora* 1867 p. 371 et 1881 p. 455, Schaer. *L. H.* 619.

Ad truncos decorticatos in alpina Bernensium valle Lauenen (Schaerer).

- 747. *L. Wallrothii*** (Tul. *Mém. Lich.* p. 119 t. 14 f. 14—22) Nyl. *Lapp.* p. 150.

Supra thallum *Solorinae saccatae* in monte Pilatus loco Kriesiloch (Hegetschweiler jr.) et ad *Peltigeras* in monte Salève (Müller). Var. *aggregata* Bagl.-Car. in *Comm. critt.* II p. 404, *Erb. critt.* 1117 in thallo *Peltigerae horizontalis* et *caninae* circa Riva et Alagna in Valsesia (Carestia).

- 748. *L. denigrata*** (Fr. *L. E.* p. 270) Nyl. *Lapp.* p. 149, Hepp *K. Z.* 210, id. *Fl. E.* 14, Anzi *It. sup.* 256.

Ad ligna fabrefacta: Engadin (Hepp), Veltlin (Anzi). Konstanz (Stizenberger), Zürich (Hepp), Genf (Müller), ad corticem Juglandis circa Varallo (Baglietto-Carestia), ad corticem Populi prope Seedorf (Gisler), ad arbores in vallibus di Sotto et Furva (Anzi).

Biatora holomicra Anzi *Anal.* p. 14 ad ligna *Pini Mughii* exsiccata in montibus Bormiensibus (Anzi) forte forma sit *L. denigratae*.

- 749. *L. Stereocaulorum*** (Fr. fil. *Arct.* p. 188) Nyl. *Lapp.* p. 182, Anzi *Lang.* 262, *Erb. critt.* 1322.

Ad granula thallina *Stereocaulorum* in alpibus circa Bormio (Anzi) et in Valsesia (Carestia).

L. uniseptata Nyl. *En.* p. 227 ex Helvetia huc pertinet qua varietas apotheciis intus albidis (hypothecio incolore). Cf. Nyl. *Lapp.* p. 182.

d. Stirps *L. cyrtellae*.

- 750. *L. cyrtella*** Ach. *Meth.* p. 67, Nyl. *Lapp.* p. 152, Syn. *Biatorina heterobaphia* Anzi *Cat.* p. 75 et *B. pseudo-*

cyrtella id. *Neos.* p. 9, Hepp *K. Z.* 219, id. *Fl. E.* 18, Anzi *Lang.* 336, 338, 516.

Ad cortices variarum arborum fructicumque frondosorum, rarissime Coniferarum. Hegetschweiler eam supra gramina destructa in monte Pilatus legit (*Biatora epiphylla* Hepp in *Hb. Hegetschw.*). Quoque ad saxa umbrosa Nagelfluhe dicta prope Gossau (Hegetschweiler jr.).

751. *L. carneonivea* (Anzi *Anal.* p. 10) Nyl. in *Flora* 1881 p. 455, Anzi *Lang.* 509.

Supra muscos aliaque vegetabilia destructa in termino arborum alpium Bormiensium (Anzi).

752. *L. pineti* Ach. *L. U.* p. 195, Nyl. *Scand.* p. 191, Schaer. *L. H.* p. 218, Hepp *K. Z.* 230, id. *Fl. E.* 136, Anzi *It. sup.* 253, *Schw. Krypt.* 163.

Ad infimos truncos *Pini sylvestris* e planitie in alpes ascendens, ad Fagum annosam prope Riva (Baglietto-Carestia), ad ligna putrida circa Neuchâtel (Chaillet), ad terram turforsam prope Kappel et ad corticem *Vaccinii Myrtilli* prope Gossau (Hegetschweiler jr.).

753. *L. lutea* (Dicks. *Crypt.* I p. 11) Schaer. *En.* p. 147, Nyl. *Scand.* p. 192, Hepp *Fl. E.* 501, *Krypt. Bad.* 520.

Ad corticem Fagi: Konstanz (Stizenberger), Zürich (Hepp), Bern (Kemmler), ad corticem *Piceae pectinatae* vetustae prope Rüti (Hegetschweiler jr.).

754. *L. pallidaeformis* Anzi *Anal.* p. 16.

Supra saxa micaceo-schistosa in pineto vallis Tartano (Anzi).

755. *L. modesta* (Hegetschw. in *lit.* nec Zw. nec Müll.-Arg.).
Supra lapides humidus ad sylvarum oras prope Gossau (Hegetschweiler jr.).

(Lecidea)

Thallus leprosus tenuissimus effusus griseus. Apothecia minuta rubella gyalectoidea. Sporae ellipticae uniseptatae 12—14 μ l., 6 μ crass., 8^{nae} in ascis lanceolatis; paraphyses subliberae. G. h. iodo non mutatur.

756. L. Bouteillei (Desmaz. *Crypt. Franc.* ed. 2, 1195) Nyl. *Lapp.* p. 152.

Ad setas Abietis et Piceae circa Riffersweil et Gossau, ubi loci quoque supra *Ericam vulgarem* viget (Heggetschweiler jr.), Riva (Baglietto-Carestia).

757. L. Heerii Hepp in Schaer. *L. H.* 630, Nyl. *Lapp.* p. 152, Hepp *K. Z.* 211, id. *Fl. E.* 135.

Supra thallum *Peltigerae rufescentis* prope Zürich, St. Moritz (Hepp), Veltlin (Anzi).

758. * L. Krempelhuberi Krb. *Pg.* p. 455 sub *Scutula*.

Supra thallum *Solorinae saccatae* circa Alagna (Baglietto-Carestia).

759. L. adressa (Hepp *Fl. E.* 277) Nyl. *Lapp.* p. 153.

Ad radices et truncos Pinorum nudos in monte Pilatus (Hepp) et in Veltlin (Anzi).

760. L. mendax (Anzi *Lang.* 168) Nyl. in *Flora* 1881 p. 179 (non Arn. *Exs.*).

Ad Abietum truncos umbrosos in valle di Tartano (Anzi).

761. L. tricolor (With. *Arr.* 4 p. 20) Nyl. *Scand.* p. 207.

„Ad cortices varios (Quercus, Pini, Abietis) rarius ad ligna vetusta“ Nyl. l. c. pro Helvetia nonnihil incerta, a cl. Fischer pro Florula Bernensi indicata.

762. L. prasiniza Nyl. in *Flora* 1874 p. 312 et 1881 p. 7.

Ad truncum arboris demortuum in Valdoggia (Baglietto-Carestia).

763. L. vernicea (Krb. *Pg.* p. 138).

Ad asseres in flumine Arve semel legit Müller.

- 764. *L. sordidescens*** Nyl. in *Flora* 1874 p. 312 et 1880 p. 393, Hepp *Fl. E.* 278.

Ad cortices et ligna pinea putrida prope Zürich (Hepp) et Bormio (Anzi).

- 765. *L. micrococca*** (Krb. *Pg.* p. 155) Nyl. in *Flora* 1881 p. 7.

Ad ligna vetusta in sylva prope Ürzlikon (Hegetschweiler jr.).

e. Stirps *L. sabuletorum*.

- 766. *L. cupreo-rosella*** Nyl. *En.* p. 122.

Ad saxa et muros prope Como (Anzi), Veyrier (Müller), Locarno (Baglietto) et in Valsesia inferiore (Baglietto-Carestia).

- 767. *L. Naegelii*** (Hepp *K. Z.* 221) Stzb. *L. sab.* p. 10, Nyl. in Norrl. *Tavast.* p. 188, Schaer. *L. H.* 473 p. p., Hepp *Fl. E.* 19, *Schw. Krypt.* 659, Anzi *Lang.* 167, 379, *Erb. critt.* 1395.

Ad cortices arborum et fruticum varixrum, culta minime fugiens. Var. *determinata* Arn. *Exs.* 600 ad corticem Fraxini prope Genf (Rome). Var. *maculans* Müll.-Arg. *Hb.* ad Larices prope Genf (id.).

- 768. *L. sphaeroides*** (Dicks. *Crypt.* 1 t. 2 f. 3) Smmrf. *Lapp.* p. 164, Nyl. *Scand.* p. 204, Schaer. *L. H.* 207 p. p., Anzi *Lang.* 261.

Ad terram muscosam et cortices arborum: Engadin (Hepp), Urdenalp (Theobald), Bormio (Anzi), inter Rosenlauri et Scheidegg (Metzler), in monte Simplon (Baglietto), in vallibus Vogna et d'Otro (Baglietto-Carestia), prope Mornex et Hôtel Monvoisin in valle de Bagnes, Grand Muveran (Müller). *F. ver-*

(Lecidea)

- sabilis* Nyl. in Stzb. *L. sab.* p. 16 ad corticem Quercus prope Affoltern (Hegetschweiler).
- 769. L. fuscoviridis** (Anzi in *Comm. critt. it.* II p. 16, Stzb. *L. sab.* p. 10) Nyl. in *Flora* 1881 p. 456, Anzi *Lang.* 403.
Ad muros micaceos umbrosos prope Suna juxta lacum Verbanum (Anzi).
- 770. L. cinerea** Schaer. *Spic.* p. 156, Nyl. in *Flora* 1881 p. 456, Hepp *K. Z.* 206, id. *Fl. E.* 21.
Ad infimos truncos arborum vetustarum, Abietum, Pinorum, Fagorum, Betularum: in sylva prope Könitzberg (Schaerer), Hochfluh et Rigi (Hegetschweiler), ad lacum prope Pfäffikon et prope Rüti (Hegetschweiler jr.), prope Zürich (Hepp), etiam supra muscos in Veltlin (Anzi).
- 771. L. peliocarpa** (Anzi *Neos.* p. 10) Nyl. in *Flora* 1881 p. 456.
Supra muscos in montibus prope Locarno (Daldini).
- 772. L. Auerswaldii** (Hepp in *Hb. Metzl.*), Syn. *L. effusa* (Auersw., Stzb.).
Ad Quercuum vetustarum corticem prope Genf (Müller) et Knonau (Hegetschweiler jr.).
- 773. L. sabuletorum** Flk. in *Berl. Mag.* 1808 p. 309, Nyl. *Scand.* p. 204, Schaer. *L. H.* 211 p. p., 474, Hepp *K. Z.* 225, 227, id. *Fl. E.* 138, 139, Rbh. *L. E.* 601, Anzi *It. sup.* 259 B.
Ad herbas destructas, muscos, arborum cortices, ligna vetusta, rarius ad saxa. F. *subsphaeroides* Nyl. in Stzb. *L. sab.* p. 32 ad Quercuum truncos prope Konstanz (Stizenberger). F. *Killiasii* (Hepp in *Bündn. Jahresber.* 1859/60 p. 246) Stzb. l. c. p. 33 ad thallum Peltigerarum in alpibus Rhaeticis (Killias).

- 774. *L. triplicans*** Nyl. (*Scand.* p. 205) in Norrl. *Kar.* p. 30, Hepp *K. Z.* 228 p. p., id. *Fl. E.* 11 p. p., Anzi *Lang.* 166.

Ad muscos herbasque demortuas, rarissime ad cortices, in alpihus Rhaeticis (Hepp, Theobald, Killias, Anzi, Stizenberger), in Valdobbia (Baglietto-Carestia).

- 775. * *L. meiolola*** Nyl. in Norrl. *Kar.* p. 30, Syn. *Bilimbia microcarpa* Fr. fil. *Arct.* p. 183, Stzb. *L. sab.* p. 36.

Ad muscos prope moles glaciales Morteratsch (Hepp). *F. artyta* (Ach. *L. U.* p. 170) Nyl. *Scand.* p. 205 ad rupes Nagelfluhe dictas tenui terra obtectas in monte Ütli prope Zürich (Hepp), etiam in Lenzerhaide Rhaetiae (Killias). Var. *venusta* (Hepp *Hb.*) Stzb. l. c. p. 37 ad muscos prope Kriesiloch et Gemsmättli in monte Pilatus (Hegetschweiler).

- 776. *L. decedens*** (Hepp *Hb.*, Stzb. *L. sab.* p. 43), Schaer. *L. H.* 211 p. p.

Ad muscos in monte Pilatus (Hepp), ad Quercuum corticem circa Bern (Schaerer).

- 777. *L. leprosa*** Schaer. in *Naturw. Anz.* 1818 p. 10, id. *Spic.* 171, id. *En.* 126, Nyl. in *lit.*

Ad rupes arenarias prope Cheire (Schaerer).

- 778. *L. miliaria*** Fr. *V. Ak. Handl.* 1822 p. 255 p. p., Nyl. in Norrl. *Torn.* p. 366, Anzi *Lang.* 148.

Ad terram turfosam prope Riffersweil (Hegetschweiler), ad muscos herbasque extinctas circa Como et in Veltlin (Anzi), prope Campilio in provincia Pedemontana (Carestia), in Valsesia (Baglietto-Carestia), ad saxa in monte Salève (Müller). *F. scolicio-sporioides* (Bagl. in *Comm. critt. it.* 1 p. 444) Stzb. *L. sab.* p. 46 supra *Silenem acaulem* prope hospitium in Valdobbia (Carestia).

(Lecidea)

- 779. * L. ternaria** Nyl. (*Lapp.* p. 151) in *Flora* 1877 p. 232, 1878 p. 248 et in Lamy *Cat.* p. 105, Schaer. *L. H.* 196 p. p., Hepp *Fl. E.* 20, 284, 285.

Ad cortices et ligna Coniferarum, rarius ad muscos prope Zürich, Hoherohne (Hepp), Pilatus, Riffersweil (Hegetschweiler), Belpberg (Schaerer), in valle Mastalone et ad saxa in Valsesia (Baglietto-Carestia).

- 780. L. Dufourii** Ach. in *Hbb. var.*, Nyl. in *Flora* 1873 p. 373, Syn. *Catillaria sphaeralis* Anzi *Neos.* p. 12.

Supra *Andraeae petrophilae* pulvinulos in alpibus vallis Furva rara (Anzi).

- 781. L. melaena** Nyl. *Bot. Not.* 1853 p. 182, id. *Scand.* p. 205, Anzi *It. sup.* p. 259 p. p.

Ad truncos nudos Coniferarum, Quercuum et Castanearum circa Bormio (Anzi), prope Riffersweil (Hegetschweiler), Albisrieden et in monte Pilatus (Hepp), in alpibus Bernensibus (Metzler). Var. *Stizenbergeri* Hepp *Fl. E.* 504 ad gramina emortua et radices prope Riffersweil (Hegetschweiler).

- 782. L. trachona** (Ach. *Meth. Suppl.* p. 16) Nyl. in *Flora* 1864 p. 620 non Krb.

Spermogonifera ad lapides supra Belp (Fischer). Var. *coprodes* (Krb. *Pg.* p. 166) Stzb. *L. sab.* p. 60 ad saxa in radice montis Salève et prope Freynières supra Bex (Müller).

- 783. L. micromma** Nyl. in *Flora* 1865 p. 5, Stzb. *L. sab.* p. 62.

Ad setas ramulosque abietinos circa Gossau et Mettmenstetten et saxicola prope Oberuster (Hegetschweiler jr.).

- 784. L. pinguicula** (Bagl. in *Comm. critt. it.* I p. 445) Stzb. *L. sab.* p. 69.
Ad resinam *Abietis pectinatae* prope Riva (Baglietto-Carestia).
- 785. L. laminularis** (Müll.-Arg. in *Flora* 1871 p. 405).
Ad truncum *Pyri Mali* semiputrescentem loco Beulet montis Salève (Müller).
- 786. L. Nitschkeana** (Lahm in Rbh. *L. E.* 583) Stzb. *L. sab.* p. 70.
Ad truncos juniores *Pini sylvestris* prope Oberottikon (Hegetschweiler jr.).
- f. Stirps *L. luteolae*.
- 787. L. rosella** (Pers. in *Ust. N. Ann.* I p. 25) Ach. *Meth.* p. 57, Schaer. *L. H.* 217.
Ad corticem Fagi prope Zug (Hegetschweiler jr.), supra Seedorf et prope Rütli (Gisler), supra Frienisberg juxta viam regiam (Schaerer), raro ad Abietes in sylvis densissimis supra Alfaèdo in Veltlin (Anzi).
- 788. L. luteola** (Schrad. *Spic.* p. 85) Ach. *L. U.* p. 195, Nyl. *Scand.* p. 209, Schaer. *L. H.* 210, Hepp *K. Z.* 232, id. *Fl. E.* 141, *Schw. Krypt.* 159.
Ad arborum truncos locis apertis vulgaris. F. *haemalea* (Stzb. *Krit. Bem.* p. 52) ad Fraxinum prope Konstanz. F. *ochrocarpa* (Stzb. l. c.) ad Fraxinos prope Riffersweil et Zug (Hegetschweiler).
- 789. * L. porriginosa** (Turn. in *Act. Soc. Linn.* V. 7 p. 94) Ach. *L. U.* p. 196, Nyl. in Rich. *Deux-Sèvres* p. 34.
Ad corticem *Quercus* prope Liestal (Hepp) et Fraxini prope Riffersweil (Hegetschweiler jr.)
- 790. L. fusciorubella** (Hffm. *D. Fl.* II p. 75, Nyl. *Scand.* p. 209), Hepp *Fl. E.* 747, Rbh. *L. E.* 728, *Schw. Krypt.* 160.

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Ad cortices arborum praesertim *Aceris campestris* et Fraxini, rarius Carpini, rarissime *Buxi sempervirentis*.
F. *umbratilis* (Stzb. *Krit. Bem.* p. 57) in cortice *Aceris campestris* prope Konstanz (Stizenberger) et Frohburg (Hepp).

791. L. propinqua (Hepp in Stzb. *Krit. Bem.* p. 58), Hepp *Fl. E.* 519.

In cortice *Populi tremulae* prope Riffersweil (Hegetschweiler).

792. L. chlorotica (Ach. *L. U.* p. 196, Nyl. *Lapp.* p. 153) id. in Norrl. *Kar.* p. 31.

Ad Fagos prope Zug et Riffersweil (Hegetschweiler jr.).

Var. *phacodes* Krb. *Pg.* p. 130 ad Hederam prope Vernier (Rome).

793. L. acerina (Pers., Ach. *Meth.* p. 60) Nyl. in *Flora* 1872 p. 350.

„In Pino Helvetiae“ (Schleicher teste Ach. *L. U.* p. 197), ad *Piceam pectinatum* prope Oberuster (Hegetschweiler jr.).

794. L. endoleuca Nyl. in (*Bot. Not.* 1853 p. 98) *Flora* 1872 p. 356, Hepp *K. Z.* 222, id. *Fl. E.* 26, *Krypt. Bad.* 518, Rbh. *L. E.* 365, *Schw. Krypt.* 162.

Ad cortices arborum variarum, etiam ad Hederam.

795. L. effusa (Sm. *E. Bot.* t. 1863) Nyl. in Lamy *Cat.* p. 106, Hepp *K. Z.* 223, id. *Fl. E.* 24, *Krypt. Bad.* 679.

Ad cortices *Aceris campestris*, *Populi*, *Salicum*, *Abietum*.

Var. *intermedia* Hepp in *lit.*, Stzb. *Krit. Bem.* p. 42, Rbh. *L. E.* 509, *Krypt. Bad.* 680 ad Fagos et Carpinos: Konstanz (Stizenberger), Zürich (Hepp), Riffersweil (Hegetschweiler jr.).

„*L. arceutina* Ach. *Meth.* p. 61 est *L. effusa* apotheciis nigris“ Nyl. in *lit.*

- 796. L. Friesiana** Hepp *Fl. E.* 288 sub *Biatora*.
Ad corticem Juglandis, Aceris et Syringae prope Schaffhausen (Schenk), Zürich (Hepp), Genf (Müller) et in Veltlin (Anzi).
- 797. L. Norrlinii** Lamy *Cat.* p. 107, Syn. *Bacidia coerulea* Krb. *Pg.* p. 134.
Ad corticem Salicum, Juglandum et Acerum prope Konstanz (Stizenberger) et Riffersweil (Hegetschweiler jr).
- 798. L. inundata** (Fr. in *Vet. Ak. Handl.* 1822 p. 270) Nyl. in *Flora* 1875 p. 106, Hepp *K. Z.* 229, id. *Fl. E.* 289 p. p.
Ad rupes varias umbrosas aut inundatas necnon ad ligna humida: Konstanz (Stizenberger), Zürich, Liestal (Hepp), Felsberg prope Chur (Theobald), Genf (Müller), Valsesia (Baglietto-Carestia), Riffersweil (Hegetschweiler). Var. *cinerascens* Bagl.-Car. in *Comm. critt. it.* II p. 83 ad saxa submersa fluvii Vogna supra Riva (Baglietto-Carestia).
- 799. L. Larbalestieri** Crombie in *Grev.* 1879, Syn. *Bacidia Arnoldiana* Krb. *Pg.* p. 134, Hepp *Fl. E.* 289 p. p.
Ad saxa arenacea prope Zürich (Hepp).
- 800. L. bacillifera** Nyl. in *Mus. Fenn.* et in *Flora* 1869 p. 413, Anzi *Lang.* 147 (*f. minuscula*).
Ad Coniferarum et *Betulae albae* corticem: in Veltlin et circa Bormio (Anzi), in vallibus Vogna (Baglietto-Carestia) et Ferret (Müller).
- 801. * L. abbrevians** Nyl. in Norrl. *Tavast.* p. 189.
Ad muscos prope St. Moritz (Hepp in *Hbb. var.* sub *Biatora aromatica* v. *fallace*) et prope Affoltern (Hegetschweiler).
- 802. L. subincompta** Nyl. (*Lapp.* p. 155) in Norrl. *Torn.*

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p. 337, Hepp *K. Z.* 212, 233, id. *Fl. E.* 23, 286, Anzi *Lang.* 146, *Krypt. Bad.* 678.

Ad cortices prope Konstanz (Stizenberger), Zürich (Hepp), Zug (Hegetschweiler jr.), Genf (Müller), Riva (Baglietto-Carestia) et in Rhaetiae vallibus Puschlav et Malenco (Anzi). Var. *affinis* (Zw. *Exs.* 336 B) ad Quercus vetustas prope Rossau et ad radices Fagorum prope Mettmenstetten (Hegetschweiler jr.), ad *Betulam albam* in Riva (Baglietto-Carestia).

803. * *L. coelestina* Anzi *Neos.* p. 11 sub *Bacidia*, id. *Lang.* 517.

In rimulis rupium calcariarum alpis Rhaeticae di Trella supra zonam Mughii (Anzi).

804. * *L. incompta* Borr. *E. Bot. Suppl.* I 2699, Nyl. in Norrl. *Tavast.* p. 189, Schaer. *L. H.* 212, Hepp *Fl. E.* 287, *Schw. Krypt.* 69, Anzi *It. sup.* 260 A B.

Ad arborum, praesertim Populorum corticem prope Zürich (Hepp), Riffersweil (Hegetschweiler), in Veltlin (Anzi), prope Varallo (Baglietto-Carestia) et Genf (Müller).

805. * *L. herbarum* (Hepp in Stzb. *Krit. Bem.* p. 46) Nyl. in Norrl. *Tavast.* p. 189, Syn. *Bacidia fraterna* Anzi *Neos.* p. 10.

Ad muscos et herbas destructas: Forch prope Zürich, Pilatus (Hepp), in alpe Rhaetica Cerdecco (Anzi), in alpe Urnensi Blatti (Gisler), in summo monte Salève (Müller).

806. *L. muscorum* Sw. *N. A. Ups.* 4 p. 245, Nyl. in Norrl. *Tavast.* p. 189, Hepp *K. Z.* 207, id. *Fl. E.* 25, 518, Anzi *Lang.* 144, *Erb. critt.* 1022.

Ad terram et muscos: Konstanz (Stizenberger), Zürich (Hepp), Riffersweil (Hegetschweiler jr.), in monte

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Pilatus (Hegetschweiler), Genf (Müller), Rhaetia (Anzi), circa Altorf (Gisler), prope Riva in Valsesia (Carestia). Var. *alpina* Hepp in Stzb. *Krit. Bem.* p. 15, Nyl. l. c. ad muscos destructos in monte Pilatus (Hepp).

807. L. stenospora (Hepp *Fl. E.* 516) Nyl. in *Flora* 1869 p. 413.

Ad Quercuum vetustarum corticem prope Riffersweil (Hegetschweiler), ad Pinorum truncos in monte Salève (Müller).

808. L. caesitia Nyl. in *Hb. Moug.*, id. *Prodr.* p. 115, Hepp *K. Z.* 161, id. *Fl. E.* 22, Anzi *It. sup.* 10.

Ad saxa calcaria et dolomitica in agro Bormiensi et circa Como (Anzi), prope Zürich et Baden (Hepp), Sewen (Hegetschweiler), Weissenstein (Metzler), Interlaken (Schaerer), in montibus Pilatus (Hegetschweiler jr.), Jura (Chaillet), Salève (Müller), Fenera et in valle Vogna (Baglietto-Carestia).

809. L. glareosa (Krb. *S. L. G.* p. 352) Nyl. in *Flora* 1864 p. 354.

Ad lapidem muscosum prope Affoltern (Hegetschweiler jr.).

g. Stirps *L. vermiferae*.

810. L. pelidna Ach. *L. U.* p. 158, Nyl. in *Flora* 1877 p. 564, Syn. *L. umbrina* Nyl. *Scand.* p. 209.

Ad saxa prope Locarno (Baglietto) et Veyrier (Müller sub *Patellaria atroviridi*). Var. *compacta* (Krb. *S. L. G.* p. 628) Fr. fil. *Scand.* p. 365, Nyl. in *Hb. Lojka*, Hepp *Fl. E.* 524, Rbh. *L. E.* 500 ad ligna putrida prope Konstanz (Stizenberger), Genf (Müller) et circa Borgosesia (Baglietto-Carestia),

Lecidea)

ad saxa praealpium vallis Tellinae (Anzi *Lang.* 117),
prope Riva (Baglietto) et in monte Salève (Müller).
Var. *corticola* (Anzi *Cat.* p. 71), id. *Lang.* 515
super corticem Laricum inter Fusine et vallem
Madre (Anzi), Alnorum, Evonymorum et Laricum
prope Affoltern, Riffersweil (Hegetschweiler jr.)
et Riva (Baglietto-Carestia).

811. L. Romeana Müll.-Arg. in *lit.* sub *Patellaria*.

Supra ligna abietina putrida „aux Voirons“ (Rome).

812. L. perpusilla Lahm in *Krb. Pg.* p. 241 sub *Scoliciosporo*.

Ad Populos prope Erstfeld (Gisler) et ad ramulos
graciles necnon squamas conorum *Pini sylvestris* et
Laricis europaeae prope Gossau, passim copiose (He-
getschweiler jr.).

813. L. vermifera Nyl. in *Bot. Not.* 1853 p. 98, Syn.
Scoliciosporum lecideoides Haszl., *Krb., Rbh. L. E.* 917,
Erb. critt. 1321.

Supra corticem *Populi tremulae* in Riva et *Ulmi mon-*
tanae in Alagna (Baglietto-Carestia).

h. Stirps *L. pezizoideae*.

814. L. pezizoidea Ach. *L. U.* p. 182, Nyl. *Scand.* p. 212, Anzi
Lang. 142, *Erb. critt.* 276.

Ad muscos locis rupestribus granitosis praealpium
Rhaeticarum (Anzi) et Urnensium (Gisler), prope
Riva in Valsesia (Carestia) et Champey supra Or-
sières (Müller), corticola ad Pinos: Urnerboden,
Gampeln, Alplerwald, Bristen (Gisler).

815. L. gemella Anzi *Cat.* p. 69 sub *Bombyliospora*, id.
Lang. 141.

Ad rupem muscosam in sylvis Coniferarum vallis di
Dentro (Anzi).

- 816. *L. fecunda*** (Fr. fil. *Arct.* p. 202) Nyl. in *lit.*, Syn. *Bia-tora socialis* Hepp, Krb. *Pg.* p. 174.

Ad terram inter saxa schistosa in alpe Savogna vallis Bergell (Anzi), supra muscos montium Rosstock et Oberalp (Gisler). Var. *tetraspora* Bagl.-Car. *Anacr.* p. 308 in Monte Rosa (Baglietto-Carestia).

- 817. *L. pachycarpa*** Duf. *MS.*, Nyl. *Prodr.* p. 118.

Ad truncos vetustos *Abietis pectinatae* in Aathal, pagi Turicensis (Hegetschweiler jr.).

i. Stirps *L. improvisae*.

- 818. *L. leprodea*** (Nyl. *Scand.* p. 213) id. *Lapp.* p. 185, Anzi *Lang.* 172.

Ad Pinorum corticem necnon ad truncos Castaneae decorticatos in Veltlin (Anzi).

- 819. *L. porphyrospoda*** (Anzi *Lang.* 339) Fr. fil. *Scand.* p. 463.

In calce truncorum laricinarum in alpe Camsciano supra Poschiavo (Anzi).

- 820. *L. geophana*** Nyl. *Scand.* p. 212.

Ad terram nudam limosam prope Mettmenstetten et Gossau (Hegetschweiler jr.).

- 821. *L. fossarum*** Duf. *MS.*, Nyl. *Prodr.* p. 116.

Ad ligna humida incrustata prope Konstanz (Stizenberger). F. *hemisphaerica* (Anzi *Cat.* p. 78) ad terram calcariam circa Bormio (Anzi), supra *Eucadium verticillatum* in monte Grand Muveran et supra glaream micaceam sterilem necnon ad muscos in valle Torembé (Müller).

- 822. *L. germanica*** (Mass. in *lit.* ad Arn.).

Ad calcem prope Plans de Freynières supra Bex (Müller).

- 823. *L. resinae*** Fr. *Obs. Myc.* I p. 180, Nyl. *Scand.* p. 213,

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Hepp *Fl. E.* sub No. 332 (Fig. 1), Anzi *Lang.* 267 A, *Erb. critt.* 1236.

Ad cortices resinosas et ligna Pinorum: prope Konstanz (Stizenberger), prope Zürich (Hepp), in Vallesia (Carestia), in Veltlin et circa Bormio (Anzi), Jura, Salève (Müller), prope Voiron (Rome).

824. L. difformis (Fr. *S. M.* II p. 151) Nyl. *Pez.* p. 68, Anzi *Lang.* 267 B.

Supra lignum resinose Abietis et Pini: prope Voiron (Rome).

Priori saepe immixta. Ambae facile fungi.

825. L. elegans (Zw. *Exs.* 344).

Ad corticem Fraxini prope Genf (Baldinger), ibidem ad Tiliam (Müller), ad Ulmos prope Gossau, ad Fraxinos et Ulmos prope Oberuster (Hegetschweiler jr.).

826. L. improvisa Nyl. in *Sällsk. pro F. et Fl. F. Notis.* 4 (n. ser. I) 1859 p. 233, id. *Scand.* p. 213, Hepp *Fl. E.* 253 p. p., 526.

Ad corticem et ligna Pinorum et Laricum: Zürich (Hepp), circa Riffersweil et Mettmenstetten (Hegetschweiler) et in valle del Torno (Anzi).

827. * L. deplanata (Almq. in *Bot. Not.* 1866 p. 69) Nyl. in Norrl. *Tavast.* p. 190.

Ad corticem *Pyri Mali* vetustae prope Mettmenstetten (Hegetschweiler jr.).

C. Eulecidea.

k. Stirps *L. decipientis*.

828. L. decipiens Ach. *Meth.* p. 30, Nyl. *Scand.* p. 214, Schaer. *L. H.* 164, Hepp *K. Z.* 163, id. *Fl. E.* 120, *Schw. Krypt.* 656, Anzi *It. sup.* 240.

Ad terram arenosam et turfosa in planitie et in alpibus, ubi in regionem nivosa usque progreditur. Pulcherrima et latas plagas obtegens in summo monte Gemmi (Metzler). F. *albomarginata* Müll.-Arg. in *Flora* 1881 No. 6 Salève (Müller). F. *cretacea* id. *Val.* p. 8 in Valisia (Wolf).

- 829. L. mammillaris** (Gouan *Herbor. Montp.* p. 88) Duf. in *Fr. L. E.* p. 285, *Nyl. Prodr.* p. 120.

Ad saxa calcaria aprica prope Neuchâtel (Mortier), ad saxa arenaria in Valsassina prope Lacum Larium (Anzi), in fissuris rupium montis Salève rarissima (Müller).

k. Stirps *L. vesicularis*.

- 830. L. tabacina** (Ram. in DC. *Fl. Fr.* 2 p. 367) Schaer. *En.* p. 100, *Nyl. Prodr.* p. 121, Anzi *It. sup.* 243.

Ad rupes praesertim calcarias et terram sabulosam in rupium fissuris, locis apertis soli expositis omnium regionum: prope Chur (Metzler), Thusis (Schimper), in vallibus circa Bormio (Anzi), in valle Vogna prope Riva (Baglietto-Carestia) et in Valisia inferiori (Schaerer).

- 831. L. albilabra** Duf. *Hb.*, *Nyl. Prodr.* p. 121 et in *Flora* 1878 p. 451.

Ad terram in rupium fissuris Valisiae mitioris (Schaerer).

- 832. L. vesicularis** Ach. *Meth.* p. 78, *Nyl. Scand.* p. 214, Schaer. *L. H.* 168, Hepp *K. Z.* 165, id. *Fl. E.* 237, Anzi *It. sup.* 241, 242 (*glebosa*), *Schw. Krypt.* 361.

Frequens ad terram praesertim soli calcarei rarius granitici vel serpentinei a planitie usque ad altitudinem 2400 m. progrediens. F. *cylindrocarpa* *Nyl. in lit. (teretocarpa* Mass. *Ric.* p. 96) in pede

(Lecidea)

- montis Salève. *F. atrovirens* Hepp *Hb.* prope St. Moritz (Metzler).
- 833. *L. alutacea*** (Anzi *Neos.* p. 9) Nyl. in *lit.*, Anzi *Lang.* 462.
Ad saxa serpentina et granitica alpium circa Bormio (Anzi), supra Lourtier (Müller), ad declivia gypsosa prope Granges (Wolf).
- 834. *L. rosulata*** (Anzi *Anal.* p. 13) id. *Lang.* 514.
In rimis rupium calcariarum septentrionem spectantium Valisiae (Schleicher), vallis Fraële (Anzi) et in Valdobbia (Baglietto-Carestia).
- 835. *L. candida*** (Web. *Spic.* p. 193) Ach. *Meth.* p. 79, Nyl. *Scand.* p. 215, Schaer. *L. H.* 167, Hepp *K. Z.* 166, id. *Fl. E.* 124, Rbh. *L. E.* 12, Schw. *Krypt.* 565, Anzi *It. sup.* 244.
Ad rupes calcarias apricas in regionibus campestribus et alpinis. In alpe della Rocca ad saxa serpentina (Anzi).
- 836. *L. caesiocandida*** Nyl. *Coll. G. m. Pyr.* p. 14, id. *Prodr.* p. 120, Hepp *Fl. E.* 734, Krb. *L. S. G.* 341.
Ad rupes Verrucano dictas in Felsberg prope Chur, ad calcem in Uldis prope Haldenstein (Theobald), supra pagum Monnetier prope Genf (Müller).
- 837. *L. ileiformis*** Fr. *L. E.* p. 334, Nyl. *Scand.* p. 215.
Ad terram calcariam in valle Entremont Valisiae inferioris (Schaerer).
- 838. *L. conglomerata*** Ach. *L. U.* p. 201, Nyl. *Prodr.* p. 122, Schaer. *L. H.* 169, Anzi *Lang.* 114, Rbh. *L. E.* 440, 738, *Erb. critt.* 680.
Haud rara supra terram ad saxa gneissica, micaceouschistosa, serpentina in alpibus praesertim editioribus: inter Puschlav et montem Bernina, in cacumine montis Spluga, circa Bormio (Anzi), in

monte Furka et ad lacum prope Leutschachalp (Gisler), in montibus Susten, Grimsel et in valle Gastern (Schaerer), in summo cacumine montis Jungfrau (Agassiz), in pede montis Schwarzhorn supra Tourtemagne (Privat), Valdobbia (Carestia), in summo Monte Rosa (Cas. de Candolle, Giardino-Verno).

1. Stirps *L. aromatica*.

- 839. *L. cinereovirens*** Schaer. *Spic.* p. 109, Nyl. *Prodr.* p. 122, Schaer. *L. H.* 298 p. p., Hepp *Fl. E.* 735, Anzi *Lang.* 116.

Ad saxa varia a planitie ad nives aeternas ascendens: Chiavenna, Bormio (Anzi), Remüs (Killias), Kandersteg (Metzler), Valisia (Schaerer, Laurer).

Ab hac *L. cinereovirescente* *L. imbricata* Mont. *Ann. sc. nat.* 2 XVI p. 125 e Guyana diversa est.

- 840. *L. multiseptata*** (Anzi *Cat.* p. 68) Nyl. in *Flora* 1873 p. 200, Anzi *Lang.* 140.

Ad rupem graniticam umbrosam secus lacum Larium (Anzi) et in monte Faulhorn 2000 m. (Metzler).

- 841. *L. acervulata*** Nyl. in *Bot. Not.* 1853 p. 183, id. *Scand.* p. 216, Hepp *Fl. E.* 736, Anzi *Lang.* 334.

Ad saxa terra humosa obtecta necnon in eorum rimis: St. Moritz, Pilatus, Rigi (Hepp), circa Premadio prope Bormio (Anzi), in alpe Laghetto di Gian-niona prope Riva (Baglietto-Carestia).

- 842. *L. squalida*** Ach. *L. U.* p. 169, Nyl. *Scand.* p. 216, Schaer. *L. H.* 170, Hepp *K. Z.* 164, id. *Fl. E.* 123, Anzi *Lang.* 138, *Schw. Krypt.* 473 (*virescens* Hepp).

Ad saxa varia tenui terra tecta necnon in rupium fissuris: Hoherohne, Albis (Hepp), Rhaetia (Anzi), Maderanerthal et supra Amsteg (P. Arsen, Gisler),

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in montibus Susten et Grimsel (Schaerer), prope Zermatt (Müller), in valle Servan (Schleicher), prope pagum Simpeln (Baglietto) et in Valsesia (Baglietto-Carestia). Var. *caulescens* (Anzi *Cat.* p. 67) Nyl. in *lit.*, Anzi *Lang.* 139, Krb. *L. S. G.* 372 ad rupes graniticas aliquantulum terrosas solique expositas alpium: circa Bormio et in Veltlin (Anzi), circa hospitium montis Simplon (Baglietto), in valle d'Arpette Valisiae inferioris nivium aeternarum vicina (Müller).

- 843. L. aromatica** (Sm. *E. Bot.* t. 1772) Ach. *Syn.* p. 19, Nyl. *Prodr.* p. 123, id. in *Flora* 1873 p. 201, Hepp *Fl. E.* 283, *Krypt. Bad.* 125.

Ad caementum murorum prope Konstanz (Stizenberger) et ad terram: Hoherohne, Pilatus, St. Moritz (Hepp), ad moles glaciales alpibus Zebrù (Anzi) et prope Riva (Baglietto-Carestia).

- 844. * L. Boissieri** (Müll.-Arg. *Genev.* p. 41).

In saxo molassico infra Mornex prope Genf (Müller).

- 845. * L. carbonacea** (Anzi *Cat.* p. 68) Crombie *Brit.* p. 78, Anzi *Lang.* 115.

Ad tofam et saxa calcaria, passim ad muscos circa Bormio (Anzi).

- 846. L. syncomista** (Flk. in *Berl. Mag.* 1808 p. 310) Nyl. in Lamy *Cat.* p. 104, Schaer. *L. H.* 194 p. p., Hepp *Fl. E.* 280, Anzi *Lang.* 165.

Ad terram in alpibus et Jurae montibus.

- 847. L. montana** Nyl. (*Prodr.* p. 108) in Norrl. *Torn.* p. 336, Schaer. *L. H.* 194 p. p.

Iisdem locis ut prior. F. *melancholica* Stzb. *L. sab.* p. 41 ad muscos demortuos in Maderanerthal (Gisler).

- 848. L. fuispora** (Hepp *Bündn. Jahresber.* 1859/60 p. 245, Stzb. *L. sab.* p. 41).

Ad terram in Churer Joch (Killias). *F. apatela* (Hepp *Hb.*) Stzb. l. c. p. 42 in monte Pilatus (Hepp).

- 849. L. acclinis** Fw. in *lit.*, *Nyl. Scand.* p. 281, Hepp *Fl. E.* 281, Anzi *It. sup.* 315.

Ad arbores frondosas a planitie usque ad terminum arboreum superiorem: in alpihus Rhaeticis (Anzi), prope Konstanz (Stizenberger), Zürich (Hepp), Riffersweil (Hegetschweiler jr.), Altorf (Gisler) et Genf (Müller), in monte Sparon supra Mollia in Valsesia (Baglietto-Carestia).

- 850. L. trigemmis** Stzb., *Nyl.* in *Flora* 1866 p. 87.

Ad rupes talcoso-schistosas in valle Zebrù prope Bormio (Anzi).

- 851. L. capitata** Anzi *Lang.* 281, *Nyl.* in *lit.*

Ad rupes marmoreas supra terminum arboreum in Rhaetico monte della Parete (Anzi).

m. Stirps *L. parasemae*.

- 852. L. fuliginosa** Tayl. in *Mack. Fl. hib.* II p. 131, *Nyl.* in *Lamy Cat.* p. 110 (Syn. *L. confusa* *Nyl. Scand.* p. 216) var. *pyrenaica* (Schaer. *En.* p. 96) *Nyl.* l. c.

In pede montis Schwarzhorn supra Tourtemagne (Privat).

- 853. L. protrusa** Schaer. *En.* p. 115 non Fr., Schaer. *L. H.* 578.

In alpihus editioribus ad saxa: in alpe Trella (Anzi), Valisia (Schleicher).

- 854. L. viridans** Fw. in *Flora* 1828 p. 697, *Nyl.* in *Lamy Cat.* p. 110, Anzi *Lang.* 155.

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Ad saxa et muros graniticos in alpibus Rhaeticis (Anzi) et Valsesiae (Baglietto-Carestia), frequens quoque ad saxa erratica in Salevula supra Mornex (Rome).

855. L. inamoena Müll.-Arg. in *Flora* 1874 p. 334.

Ad saxa granitica in valle de Bagnes Valisiae loco Torembé (Müller).

856. L. parasema Ach. *L. U.* p. 175 p. max. p., Nyl. in *Flora* 1881 p. 187, Hepp *Fl. E.* 248, 249, 725, Anzi *It. sup.* 275, 277.

Ad cortices arborum et fruticum. Var. *latypea* (Ach. *Meth.* suppl. p. 10) Nyl. *Scand.* p. 217, id. in *Flora* l. c., Schaer. *L. H.* 193, Hepp *K. Z.* 208, id. *Fl. E.* 6, 133, Anzi *It. sup.* 268, *Erb. critt.* 686 ad saxa varia praesertim arenaria planitiei et montium. F. *Wulfeni* (Hepp *Fl. E.* 5), Anzi *Lang.* 186 ad muscorum pulvinulos in alpibus frequens: Churer Joch, Calanda, Reichenau, Flüela (Theobald), St. Moritz (Hepp), Veltlin, Bormio, prope Chiavenna (Anzi), Grosse Mythe (Harz), Colombier, Grand Muveran (Müller), Rosstock, Belmi, Oberalp, Badus, Stelliboden (Gisler), Valsesia (Baglietto-Carestia). Var. *elaeochroma* Ach. *L. U.* p. 275, Nyl. *Scand.* et in *Flora* ll. cc., Hepp *K. Z.* 250, id. *Fl. E.* 3, 247, Anzi *Lang.* 187, 554, id. *It. sup.* 278, Rbh. *L. E.* 600, *Schw. Krypt.* 362 ad cortices arborum frequens. F. *tabescens* (Krb. *S. L. G.* p. 203) Hepp *Fl. E.* 525 ad arbores prope Zürich (Hepp), Riffersweil (Hegetschweiler jr.), Genf (Müller), et in Valsesia inferiore (Baglietto-Carestia). Var. *exigua* (Chaub. *Fl. Ag.* p. 478) Nyl. *Prodr.* p. 124, id. in *Lamy Cat.* p. 111, Hepp

Fl. E. 254, *Schw. Krypt.* 658, Anzi *Lang.* 174 ad corticem Alni, Quercus, Fagi, Salicis et *Rhamni Frangulae* prope Zürich, Liestal (Hepp), Riffersweil, Mettmenstetten (Hegetschweiler jr.), Genf (Müller), Como, Riva (Anzi). Var. *glomerulosa* (DC. *Fl. Fr.* 2 p. 348) Nyl. in *Flora* 1872 p. 356 et 1881 p. 187 ad corticem *Sorbi Aucupariae* prope Schwyz (Harz).

* *L. dolosa* Ach., Whlnb., Nyl. in *Flora* 1881 p. 187 Helvetiae deesse videtur.

857. *L. alba* Schleich. *Cat.* 1821, Schaer. *En.* p. 125, Nyl. in *Flora* 1881 p. 188, Hepp *Fl. E.* 251.

Ad corticem *Pini sylvestris* prope Zürich (Hepp), Genf (Müller) et Sondrio (Anzi).

858. *L. euphorea* (Flk. *D. L.* 4) Nyl. in *Flora* 1881 p. 187, Schaer. *L. H.* 472 p. p., Hepp *Fl. E.* 250, *Krypt. Bad.* 852, Anzi *It. sup.* 281.

Ad ligna vetusta et ramos Pinorum demortuos in planitie et in alpibus. Var. *leucoplacoides* Nyl. *Scand.* p. 217, Hepp *Fl. E.* 4, Rbh. *L. E.* 340, Anzi *Lang.* 184 ad truncos Coniferarum prope Poschiavo (Anzi), Reichenau (Hepp), Ems et Pizockel (Theobald), ad corticem *Populi tremulae* in vallibus Bormiensibus (Anzi) et in valle Vogna (Baglietto-Carestia), in valle Ferret, prope Sembrancher, in monte Salève loco Belut et circa Genf (Müller, Bernet).

859. * *L. enteroleuca* Ach. *Syn.* p. 19, Nyl. in *Flora* 1881 p. 187, *Syn. L. Berninensis* Krb. in *Hb. Metzl.*, *L. gonio-phila* Hepp, Krb., *L. glabra* Krmplh., *L. rhaetica* v. *lutescens* Anzi *Cat.* p. 82, Hepp *K. Z.* 191, 197, id.

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Fl. E. 127—129, 252, *Schw. Krypt.* 68, *Rbh. L. E.* 341, 446, *Anzi Lang.* 352.

Ad cortices, ligna et saxa vulgaris. Var. *fumosa* Müll.-Arg. in *Flora* 1872 p. 485 ad ligna fabricata prope Genf (Müller). Var. *granulosa* Arn. *Tir.* IV p. 40 ad saxa in monte Tournette et prope Fionay (Müller), circa Alagna (Baglietto-Carestia). Var. *egenea* Krmplh. *Bay.* p. 196 ad saxa varia in alpibus (Müller, Baglietto-Carestia). Var. *ecrustacea* Müll.-Arg. in *Flora* 1874 p. 532 in faucibus Bovernier (Müller).

860. *L. goniophila* Flk. in *Berl. Mag.* 1809 p. 311, Nyl. in *Flora* 1881 p. 188, Syn. *L. pungens* Krb. *Pg.* p. 161, *Anzi Lang.* 402, Hepp *Fl. E.* 241.

Ad muros sine caemento exstructos inumbratos prope Cavandone (Anzi), ad saxa umbrosa circa Altorf (Gisler), necnon ad lapides erraticos in monte Salève (Müller), prope Zürich (Hepp) et ad saxa „Verrucano“ montis Bürgistock (Hegetschweiler jr.).

861. *L. subcongrua* Nyl. in *Flora* 1874 p. 11.

Ad saxa siderolithica montis Salève (Müller).

862. *L. isidiosa* Anzi *Neos.* p. 11.

Ad muscos et hepaticas in termino superiore arborum prope Bormio (Anzi).

863. *L. vorticosa* (Flk. in *Berl. Mag.* 1808 p. 311) Krb. *S. L. G.* p. 251, Nyl. in *Flora* 1876 p. 308, *Anzi Lang.* 353, *Rbh. L. E.* 771, *Erb. critt.* 1389.

Ad saxa duriora Rhaetiae (Anzi), Valsesiae (Carestia) et montium Salève (Müller) et Distelgrat (Brun).

864. *L. Baderi* Müll.-Arg. in *Flora* 1871 p. 103.

Ad saxa erratica montis Salève (Müller).

865. **L. siderolithica** Müll.-Arg. in *Flora* 1872 p. 535.
Ad saxa siderolithica in summo monte Salève (Müller).
866. **L. laboriosa** Müll.-Arg. in *Flora* 1874 p. 187.
Ad parietes verticales saxorum supra Orsières (Müller).
867. **L. confluentula** Müll.-Arg. in *Flora* 1872 p. 536.
Ad saxa siderolithica in summo monte Salève (Müller).
868. **L. distans** Krmpfh. in *Flora* 1855 p. 71, Nyl. ib. 1868 p. 347, Anzi *Lang.* 152.
Ad saxa granitica in praeruptis alpium Bormiensiium (Anzi), in valle Engadin (Hepp).
869. **L. Sessitana** (Bagl.-Car. *Anacr.* p. 257) Nyl. in *lit.*
In alpe Casere superiore et in monte Palanca prope Riva (Baglietto-Carestia).
870. **L. titubans** Bagl.-Car. in *Comm. critt. it.* I p. 443.
Ad rupes schistosas in monte Palanca (Baglietto-Carestia).
„Sine spermogoniis, cur determinari nequit an sit lichen stirpis *L. parasemae*, ut crederem“ Nyl. in *lit.*
871. **L. formosa** Bagl.-Car. in *Comm. critt. it.* II p. 82.
Ad saxa in antris prope Alagna rara (Baglietto-Carestia).
872. **L. speciosa** Müll.-Arg. in *Flora* 1874 p. 531.
Ad saxa micaceo-schistosa prope Torembé in valle de Bagnes (Müller).
873. **L. contorta** Bagl.-Car. *Comm. critt. it.* I p. 443.
Ad rupes in monte Palanca (Baglietto-Carestia).
874. **L. sphaerocarpa** Bagl.-Car. *Anacr.* p. 266.
Saxicola circa Alagna (Baglietto-Carestia).
875. **L. vitellinaria** Nyl. in *Bot. Not.* 1852 p. 177, id. *Scand.* p. 218, Anzi *Lang.* 480, *Erb. critt.* 1391.
Parasita in thallo *Lecanorae vitellinae* per omnem regionem alpinam.

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- 876. L. supersparsa** Nyl. in *Flora* 1865 p. 7.
Parasita supra apothecia *Lecanorae polytropae* in monte Rosstock (Gisler) et in Torembé (Müller), supra *Lecanoram diffracto-areolatam* ibidem et supra *Lecanoram atryneam* in monte Salève (id.).
- 877. L. aggregantula** Müll.-Arg. in *Flora* 1874 p. 533.
Supra thallum *Lecanorae polytropae* in Torembé (Müller).
- 878. L. scabridula** Müll.-Arg. *Val.* p. 8.
In jugis thallinis *Lecanorae nodulosae* parasitica (Wolf).
- 879. L. querneae** Ach. *Meth.* p. 62, Nyl. *Scand.* p. 196.
Ad Quercuum et Castanearum truncos in monte di Capiago prope Como (Anzi).
- 880. L. aglaeiza** Nyl. in *Flora* 1875 p. 301, Syn. *L. alpina* Schaer. *Spic.* p. 147, 199, id. *En.* p. 114.
Ad saxa granitica montis Nufenen (Schaerer).
- 881. L. subplumbea** (Anzi *Anal.* p. 16) Nyl. in *Flora* 1881 p. 534, Anzi *Lang.* 573.
Ad rupes micaceo-schistostas in arborum termino vallis Furva (Anzi), Torembé (Müller), prope hospitium in Valdobbia (Baglietto-Carestia).
- 882. L. leucophaea** Flk., Nyl. in *Flora* 1870 p. 35, Anzi *Lang.* 351, *Erb. critt.* 1091.
Ad saxa serpentinae prope lacum supra Torre in valle Malenco; etiam graniticola in sylva prope Tartano et ad saxa micaceo-schistosa in monte Sobretto (Anzi), ad idem saxorum genus prope hospitium in Valdobbia et circa Riva (Baglietto-Carestia).
- 883. L. Wolfiana** Müll.-Arg. *Val.* p. 14.
Ad saxa gneissica montis Weissmies (Wolf).

n. Stirps *L. arcticae*.

- 884. *L. limosa*** Ach. *Syn.* p. 26, *Nyl. Scand.* p. 221, Schaer. *L. H.* 195, Hepp *Fl. E.* 488, Anzi *Lang.* 183.

Supra terram in alpibus granitosis Rhaeticis (Theobald, Anzi) et Urnensibus (Gisler, Hegetschweiler jr.), prope moles glaciales Rhodani (Metzler), in Valsesia (Baglietto-Carestia). In herbario Acharii a Schleichero missa adest.

- 885. *L. arctica*** Smmrf. *Lapp.* p. 156, *Nyl. Scand.* p. 220, Rbh. *L. E.* 734, *Erb. critt.* 1232, Anzi *Lang.* 553.

Supra muscos in alpibus granitosis Rhaeticis (Anzi) et Urnensibus (Gisler), in monte Grimsel (Schaerer), Engstelenalp (Hegetschweiler), prope hospitium in Valdobbia, in montibus Turlo et Plaida Valsesiae (Baglietto-Carestia).

o. Stirps *L. emergentis*.

- 886. *L. Reuteri*** Müll.-Arg. in *Flora* 1872 p. 486.

Ad parietes altos saxorum calcariorum montis Reculet supra Creux de Pransiouz (Müller).

- 887. *L. emergens*** Fw. in *Krb. Pg.* p. 225, *Syn. L. lithyrga* Fr., Arn., Hepp *K. Z.* 190, id. *Fl. E.* 226, Anzi *Lang.* 356 AB.

Ad saxa calcaria in alpibus Rhaeticis (Hepp, Anzi), Frohnalp prope Schwyz (Harz), Pilatus (Hepp), Rosenlaugletscher (Metzler), in summo monte Dôle (Müller).

- 888. *L. jurana*** Schaer. *En.* p. 123, *Nyl. Prodr.* p. 125, Schaer. *L. H.* 628.

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Ad saxa calcaria in radice montis Chasseron (Schaeerer), in monte Reculet (Müller), in Meyenthal (Gisler), in alpibus Bernensibus (Metzler), in fastigio septentrionali montis Plaïda in Valdobbia (Baglietto-Carestia).

- 889. L. coerulea** Krmplh. in *Flora* 1857 p. 372, Nyl. ib. 1881 p. 539, Anzi *Lang.* 282.

Ad rupes calcarias et muros circa Bormio (Anzi), ad saxa montium Gemmi (Metzler) et Reculet (Müller).
 Var. *nuda* Arn. in *Flora* 1868 p. 36, Nyl. l. c. saxicola in montibus Reculet et Grand Muveran (Müller), Urnerboden (Gisler).
 Var. *Muverani* (Müll.-Arg. in *Flora* 1870 p. 165) ad rupes calcarias montis Grand Muveran paulo supra terminum arborum (Müller).

- 890. L. plumbea** Gar. *Hb.*, *Mass. Ric.* p. 74, Nyl. in *lit.*, Anzi *Lang.* 154.

Ad saxa granitica aprica supra terminum Abietis in alpibus Rhaeticis (Anzi), in summo Aletschhorn (Brun) et in alpibus Valsesiae (Baglietto-Carestia).

- 891. L. petrosa** Arn. in *Flora* 1868 p. 36, Nyl. ib. 1872 p. 360.

Ad saxa calcaria montis Grand Muveran paulo supra terminum arborum (Müller), etiam in monte Fenera (Baglietto-Carestia).

- 892. L. annularis** Müll.-Arg. in *Flora* 1870 p. 164.

Ad saxa calcaria ventosa paulo supra arborum terminum in monte Grand Muveran (Müller).

- 893. L. rhaetica** Hepp in Arn. *Exs.* 117, Nyl. in *Flora* 1866 p. 371, Anzi *Lang.* 371.

Ad saxa calcaria e regione Mughi in nivosam progrediens: St. Moritz (Hepp), Bormio (Anzi), Rhone-

gletscher (Metzler), supra rupes micaceo-schistosas montis Simplon (Baglietto), in Valsesia (Baglietto-Carestia) et in Torembé (Müller).

p. Stirps *L. umbonatae*.

- 894. *L. umbonata*** (Hepp *Fl. Eur.* 257) Nyl. in *Flora* 1872 p. 358.

Ad saxa calcaria in alpibus Rhaeticis (Theobald, Kiliass), in montibus Pilatus (Hepp), Rossstock (Gisler), Grimsel (Schaerer).

- 895. *L. subumbonata*** Nyl. in *Flora* 1872 p. 358, Syn. *L. umbonata* v. *emersa* Müll.-Arg. ib. 1870 p. 260.

Ad saxa calcaria in monte Tournette (Müller).

q. Stirps *L. contiguae*.

- 896. *L. panaeola*** Ach. *L. U.* p. 201, Nyl. *Scand.* p. 223, Schaer. *L. H.* 469, Anzi *Lang.* 83.

Ad saxa granitica alpium supra Rodolo in Veltlin (Anzi), in monte Grimsel (Schaerer), rara prope Intschi (Gisler), circa Riva (Baglietto-Carestia).

- 897. *L. albocoerulescens*** Ach. *L. U.* p. 188, Nyl. *Scand.* p. 224, Schaer. *L. E.* 471, Hepp *K. Z.* 180, id. *Fl. E.* 243, Anzi *It. sup.* 282, *Erb. critt.* 1084.

Vulgaris ad saxa silacea et schistosa sylvarum umbrosarum praesertim regionis collinae. Var. *flavo-coerulescens* (Ach. *Syn.* p. 23) Nyl. l. c., Schaer. *L. H.* 186, Anzi *It. sup.* 284 ad saxa praesertim regionis montanae.

- 898. *L. phaeenterodes*** Nyl. in *Flora* 1875 p. 363, Schaer. *L. H.* 185 sin.

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Ad saxa rorida: in montibus Grimsel et Tête noire (Schaerer), in Alpthal prope Schwyz (Harz). Var. *soredizodes* Nyl. l. c., Anzi *It. sup.* 283 ad saxa in valle Tellina (Anzi).

899. L. contigua Fr. *L. E.* p. 298 p. m. p., Nyl. *Scand.* p. 224, Schaer. *L. H.* 446 (at non in omnibus exemplaribus), Hepp *K. Z.* 179, id. *Fl. E.* 126, Anzi *Lang.* 158, 357, id. *It. sup.* 285, Rbh. *L. E.* 883. (*L. spuriaeformis* Anzi *Symb.* p. 7 huc ducenda est).

Ad saxa granitica vulgaris, ultra altitudinem 3000 m. ascendens e g. in Piz Ot (Brügger). Var. *flavicunda* (Ach. *L. U.* p. 166) Nyl. *Scand.* p. 244, Hepp *Fl. E.* 224 ad saxa praecipue regionis montanae. Var. *convexa* Fr. *L. E.* p. 299, Nyl. in Lamy *Cat.* p. 117 in monte Salevula (Müller) et prope Varallo (Baglietto-Carestia). Var. *subcretacea* Arn. *Tir.* XI p. 7 in monte Olen (iid.).

900. *L. platycarpa Ach. *L. U.* p. 173, Nyl. in *Flora* 1872 p. 552.

Unacum f. *steriza* (Ach. l. c.) Nyl. *Scand.* p. 224, Schaer. *L. H.* 228, Hepp *K. Z.* 189, id. *Fl. E.* 242, 265, Anzi *It. sup.* 288 vulgaris ad saxa humida umbrosa tam granitosa quam calcaria. Var. *microcarpa* Hepp *Fl. E.* 264 (obs.) ad micaschistum prope Bormio (Anzi) et in monte Salève (Müller).

901. *L. superba Krb. *S. L. G.* p. 248, Anzi *Lang.* 571.

Ad saxa micaschistosa in valle del Furno et in monte Spluga (Anzi), in Valsesia (Schleicher), graniticola circa Riva (Baglietto-Carestia).

902. L. oblita Bagl.-Car. *Anacr.* p. 261.

Ad rupes graniticas prope Varallo (Baglietto-Carestia).

- 903. L. meiospora** Nyl. (*Scand.* p. 225), in *Flora* 1873 p. 72
f. *speireoides* id. in *Hb. Stzb.*
Ad saxa calcaria (Flysch) prope Unterschächen (Gisler).
- 904. * L. crustulata** (Ach. *Syn.* p. 18) Nyl. in *Flora* 1873 p. 72,
Hepp *K. Z.* 196, id. *Fl. E.* 130, *Schw. Krypt.* 570.
Ad lapides et saxa ubique vulgaris. Ad Fagorum
radices prope Gossau (Hegetschweiler jr.). *F. oxy-*
data (Rbh. *L. E.* 698) Krb. *S. L. G.* 406 in monte
Salève (Müller). Var. *macrospora* Krb. *S. L. G.*
p. 264, Hepp *Fl. E.* 264, Anzi *Lang.* 479 vulgaris
ad saxa erratica et in rupibus alpium.
- 905. L. subtrullisata** Müll.-Arg. in *Flora* 1872 p. 536.
Ad saxa siderolithica pascuorum montis Salève (Müller).
- 906. L. speirea** Ach. *L. U.* p. 184, Nyl. in *Flora* 1870 p. 38,
Schaer. *L. H.* 184, Anzi *Lang.* 160.
Ad saxa duriora in alpibus Rhaeticis (Anzi), prope
Rosenlauri et Mürren (Metzler), in monte Pilatus
(Sickenberger-Solms), prope Schwyz (Harz), in
valle Buembach et in montibus Scheibe, Gantrisch,
Stockhorn (Schaerer), Rossstock (Gisler), in valle
Vogna (Baglietto-Carestia), Torembé (Müller). *F.*
subcalcareia Nyl. *Scand.* p. 225, Lamy *Cat.* p. 117
in pede montis Schwarzhorn supra Tourtemagne
(Privat).
- 907. L. euspeirea** Nyl. in *Flora* 1875 p. 104.
Calcicola in monte Gemmi (Schimper).
- 908. L. nivea** Müll.-Arg. in *Flora* 1868 p. 371.
In cacumine montis Dent du Midi (Cas. de Candolle).
- 909. L. turgida** Schaer. *En.* p. 121, Nyl. *Prodr.* p. 131,
Schaer. *L. H.* 527, Hepp *Fl. E.* 246, Anzi *Lang.* 161.
Ad saxa calcaria, gneissiaca, granitica, arenaria et
argillaceo-schistosa in alpibus parum supra termi-

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num arboreum: Veltlin (Anzi), Pilatus (Hegetschweiler), Hochburg, Platti, Rosstock, Belmi (Gisler), in valle Gastern et in monte Feuerstein (Schaerer), Faulhorn et Riffel prope Zermatt (Metzler), in monte Olen (Baglietto-Carestia).

- 910. L. confluens** Ach., Schaer., Moug. *St. Vog.* 463, Nyl. *Scand.* p. 225, Schaer. *L. H.* 187, Hepp *Fl. E.* 125, *Schw. Krypt.* 365, Anzi *It. sup.* 286, id. *Lang.* 283 (*vapulata* Anzi), 401 (*ecrustacea* Anzi).

Frequens ad saxa primitiva in alpibus, praesertim in regionibus Mughii et nivosa; descendit in regionem Abietum, imo in planitiem. *F. oxydata* simul cum typo. Var. *leucitica* Fw., Schaer. *Spic.* p. 144, 198, Nyl. in *Lamy Cat.* p. 118 ad saxa in alpibus. Var. *leptoceramia* (Anzi *Symb.* p. 18), id. *Lang.* 340 supra micaschistum in monte Splügen (Anzi). Var. *reticulata* Schaer. *Spic.* p. 145, id. *En.* p. 118 in monte Sanetsch (Schaerer).

Schaer. *L. H.* 187 saxicola in monte Grimsel in Leight. *Great Brit.* Ed. III p. 313 pro *L. sarcogyniza* Nyl. in *Flora* 1868 p. 475 declaratur.

- 911. L. paratropoides** Müll.-Arg. in *Flora* 1874 p. 348.

Ad saxa gneissica in valle de Bagnes infra moles glaciales Getroz (Müller).

- 912. L. lapicida** Fr. *L. E.* p. 306, Nyl. *Scand.* p. 225.

Ad saxa primitiva alpium editiorum Rhaetiae (Anzi, Killias), Realp, Isenmannsalp, in monte Susten (Gisler), Sidelhorn (Jack), Guttannen, Trachselauenen (Metzler), in Valisia (Privat). *F. oxydata* Krb. *Pg.* p. 208 in monte Schwarzhorn (Privat). Var. *silacea* (Ach. *Meth.* p. 48) Fr. l. c. p. 307, Nyl. l. c., Schaer. *L. H.* 191, Anzi *Lang.* 159 locis similibus ut typus.

913. * **L. polycarpoides** Müll.-Arg. in *Flora* 1870 p. 259, Nyl. ib. 1881 p. 455.

Ad saxa quartzosa montis Tournette (Müller).

914. **L. subconfluens** Anzi *Lang.* 354, Nyl. in *lit.* non Fr. fil. *Scand.* p. 487, *L. lapicida* var. *declinata* Nyl. *Lapp.* p. 177 et in *Flora* 1866 p. 418.

Ad saxa granitica locis apertis inter Coniferarum sylvas di Morzàglia supra Bormio (Anzi), in valle Vogna et circa Riva (Baglietto-Carestia).

915. **L. declinans** Nyl. *Scand.* p. 226, *Lapp.* p. 160 et in *Flora* 1878 p. 243, Anzi *Lang.* 358 A.

Ad saxa granitica in valle Tellina (Anzi) et prope Guttannen in valle Oberhasli (Metzler). *F. ecrustacea* Nyl. in *Flora* l. c. in montibus Olen (Baglietto-Carestia), Matterhorn (Wolf, Güttinger) et Schwarzhorn supra Tourtemagne (Privat). Var. *subterluens* f. *ochromelaena* Nyl. ib., Hepp *Fl. E.* 259 dextr., Anzi *Lang.* 149, *Erb. critt.* 1085 ad saxa praesertim granitica montium et alpium. Var. *ochromela* (Ach. *Meth.* p. 41) Nyl. *Scand.* p. 226 frequens in alpibus graniticis. Var. *cyclocarpa* Müll.-Arg. *Val.* p. 15 in monte Schwarzhorn supra Tourtemagne (Privat).

916. **L. declinascens** Nyl. in *Flora* 1878 p. 243.

Ad saxa gneissiaca montis St. Gotthard (Gisler). Var. *ochromeliza* Nyl. l. c., Hepp *Fl. E.* 259 sin., *Erb. critt.* 1468 ad saxa erratica prope Zürich, ad saxa granitica prope St. Moritz (Hepp), circa Riva et Alagna (Baglietto-Carestia). Var. *subterluescens* Nyl. l. c. f. *oxydata* Anzi *Lang.* 400 supra terminum vegetationis arboreae in valle Furva (Anzi).

(Lecidea)

917. L. lithophiloides Müll.-Arg. in *Flora* 1874 p. 188.

Ad saxa granitica supra Orsières (Müller).

918. L. polycarpa Flk., Smmr. *Lapp.* p. 149, *Nyl. Scand.* p. 226, Anzi *Lang.* 478.

Ad saxa praecipue micacea in alpibus editissimis Rhaetiae (Rabenhorst, Hepp, Theobald, Anzi, Killias), ad Scheideck, Wengernalp, in valle Lauterbrunnen (Metzler), in monte Susten (Gisler), in Valisia (Bader). F. *metamorpha* Anzi *Cat.* p. 84 ad idem saxorum genus in monte Splügen et in alpibus circa Bormio (Anzi). F. *hypothecio rufescente* (Anzi *It. sup.* 271, id. *Lang.* 355) ad saxa granitosa alpium Bormiensium (Anzi) et prope hospitium in Valdobbia (Baglietto-Carestia).

919. L. tessellata Flk. *D. L.* 64, *Nyl. Scand.* p. 227, Hepp *Fl. E.* 723, Anzi *Lang.* 124, 125 (*caesia*), 126 (*albescens*), 398 (*angulosa*).

Ad saxa granitica et schistosa, raro ad serpentinum, marmor et calcem alpium. In monte Salevula (Müller).

920. L. brachyspora Fr. fil. *Scand.* p. 501 var. *dissentiens* Bagl.-Car. *Anacr.* p. 273.

Prope hospitium in Valdobbia (Baglietto-Carestia).

921. L. interjecta Bagl.-Car. *Anacr.* p. 272.

Graniticola prope hospitium in Valdobbia (Baglietto-Carestia).

922. L. auriculata Fr. fil. *Arct.* p. 213, *Nyl.* in *Norrl. Torn.* p. 339.

In summo monte Matterhorn necnon in monte Wetterhorn (Calberla), in alpe „Casera superiore“ prope Riva (Baglietto-Carestia). Var. *diducens* (*Nyl.* in

Flora 1865 p. 148) Fr. fil. *Scand.* p. 499 in monte Olen (Baglietto-Carestia).

- 923. L. Güttingeri** Müll.-Arg. *Val.* p. 17.
In monte Matterhorn (Güttinger).
- 924. L. lithophila** (Ach. in *Vet. Ak. Handl.* 1808 p. 233) id. *Syn.* p. 14, Nyl. *Scand.* p. 226, *Syn. Lecanora homaliza* Ach. in *lit.*, Schaer. *En.* p. 60.
Ad saxa in alpebus. Var. *ochracea* Nyl. l. c. p. 227, Anzi *It. sup.* 272, Rbh. *L. E.* 946 in alpebus Rhaeticis (Anzi), circa Carcofora et Riva (Baglietto-Carestia). Var. *cyanea* Schaer. *En.* p. 120, Nyl. in *Lamy Cat.* p. 119 Helvetiae deesse videtur.
- 925. L. plana** Lahm in *lit.*, Nyl. in *Flora* 1872 p. 552 et 1875 p. 448 var. *ecrustacea* Nyl. in Arn. *Tir.* XVIII p. 41. Saxicola prope hospitium in Valdobbia (Baglietto-Carestia).
- 926. L. Lahmii** Hepp in Krb. *Pg.* p. 212.
Saxicola prope Pringy (Puget).
- 927. L. personata** Fw. in Krb. *S. L. G.* p. 238, Anzi *Lang.* 570.
In monte Salève (Müller) et ad micaschistum prope Bormio (Anzi).
- 928. L. Casimiri** (Müll.-Arg. in *Flora* 1868 p. 371).
Ad saxa schistosa cacuminis Dent du Midi et in monte Diablerets (Cas. de Candolle).
- 929. L. conturmans** Nyl. in *Flora* 1873 p. 299.
Calccicola in Valsesia (Baglietto-Carestia).
- 930. L. promiscens** Nyl. in *Flora* 1872 p. 358, 552, *Syn. L. polycarpa* var. *ecrustacea* Bagl.-Car. in *Comm. critt. it.* II p. 383.
In Monte Rosa (Giordano-Verno).
- 931. L. ecrustacea** (Anzi *Lang.* 399) Arn. *Tir.* X p. 9, XIII p. 9, Nyl. in *lit.* ad Arn.

(Lecidea)

Ad rupes micaceas in alpibus Rhaeticis editissimis (Anzi), prope hospitium in Valdobbia (Baglietto-Carestia), in monte Distelgrat (Brun), ad pedem montis Schwarzhorn supra Tourtemagne (Bader).

932. L. sudetica Krb. *S. L. G.* p. 254.

Ad saxa micaschistosa in valle Engadin et prope Bormio (Anzi), in monte Fenera (Baglietto-Carestia).

933. L. lactea Flk., Schaer. *En.* p. 114, Nyl. *Scand.* p. 230, Syn. *L. pennina* Schaer. *En.* p. 104, Schaer. *L. H.* 176, 188 (*oxydata*), 446 sin., Hepp *Fl. E.* 245, Anzi *Lang.* 157 AB, 358 p. p., id. *It. sup.* 270.

Ad saxa granitosa montium et alpium, etiam in monte Reculet prope Genf, Catogne (Müller) et ad saxa erratica prope Zürich (Hepp).

934. * L. alboflava Krb. *Pg.* p. 203.

Ad saxa micaceo-schistosa supra zonam Abietum in monte Masucco vallis di Dentro (Anzi), prope Tarasp (Jack), Furka, Scheideck, Rhonegletscher (Metzler).

935. L. sarcogynoides Krb. *S. L. G.* p. 252, Nyl. in *Flora* 1865 p. 148.

Ad saxa in monte Salève (Müller) et prope Voiron (Rome).

936. L. proludens Nyl. in *Flora* 1872 p. 359 et 1873 p. 21, Hepp *Fl. E.* 261.

Ad saxa in monte Pilatus (Hepp).

937. L. chrysoteicha Nyl. in *Flora* 1872 p. 365.

Supra saxa arenacea ad „Schmadribachfall“ prope Trachsellauen in valle Lauterbrunnen (Metzler).

„In *L. chrysoteicha* hypothecium lamina tenui aureo-chrysophanicum, strato supero angusto fusco. In *L. proludente* hypothecium omnino fuscens.“ Nyl. in *lit.*

- 938. *L. subinvoluta*** Müll.-Arg. *Val.* p. 16.
Ad saxa gneissica in monte Weissmies (Wolf).
- 939. *L. vicinalis*** Müll.-Arg. in *Flora* 1874 p. 532.
Ad saxa granitica prope Hotel Monvoisin in valle de Bagnes (Müller).
- 940. *L. Kündigiana*** Müll.-Arg. *Val.* p. 16.
Ad saxa quartzosa in summo monte Bella (Kündig), et ad saxa quartzoso-schistosa montis Weissmies (Wolf).
- r. Stirps *L. fumosae*.
- 941. *L. amylacea*** Ach. *L. U.* p. 172, *Nyl. Scand.* p. 227
f. *elata* (Schaer. *En.* p. 123) *Nyl. Arm.* p. 401, Schaer. *L. H.* 229, Hepp *Fl. E.* 256.
Ad saxa calcaria, argillaceo-schistosa et granitica in alpihus: Rothhorn (Brunner), Braulio 2500 m. (Anzi), Parpaner Schwarzhorn, Gürgaletsch, Urdenalp (Theobald), Pilatus (Hegetschweiler), Suleck, Javernaz (Schaerer), Rossstock, Belmi (Gisler), Valsesia (Baglietto-Carestia), ad saxa quartzosa in monte Tournette prope Torembé (Müller) et Dent du Midi (Chavel).
- 942. *L. areolata*** Schaer. *Spic.* p. 127, *Nyl. Scand.* p. 228.
Ad saxa micaceo-schistosa montis St. Bernhard (Schaerer).
- 943. *L. marginata*** Schaer. *Spic.* p. 146, *Nyl. Scand.* p. 228, Schaer. *L. H.* 189.
Ad saxa granitica summarum alpium a zona Mughi ad regionem nivosa ascendens, rara: Susten, Grimsel (Schaerer), Wengernalp, Riffel (Metzler).
- 944. *L. oreia*** Stzb., Anzi *Lang.* 397.

(Lecidea)

Iisdem stationibus ut praecedens in vallibus di Trella et Malenco et in claustris Casanna (Anzi).

- 945. L. Brunneri** Schaer. *Spic.* p. 136, Nyl. in *Lamy Cat.* p. 122, Anzi *Lang.* 150.

Ad saxa micaceo-argillosa in montibus St. Gotthard (Brunner) et Schwarzhorn in Valisia (Privat et Eberhardt), ad saxa duriora alpium Rhaeticarum (Anzi).

- 946. L. aglaea** Smmrf. *Lapp.* p. 144, Nyl. *Scand.* p. 228, Rbh. *L. E.* 366, *Erb. critt.* 386.

Ad saxa granitica, gneissica, serpentina et schistosa in alpibus: St. Moritz (Hepp), inter Grimsel et Guttannen, Susten, St. Gotthard, St. Bernhard (Schaerer), Faulhorn (Metzler), Simplon (Baglietto), Palanca et Olterhorn in Valsesia (Baglietto-Carestia).

- 947. L. virescens** Müll.-Arg. in *Flora* 1874 p. 531.

Ad saxa micacea prope Hotel Monvoisin in valle de Bagnes (Müller).

- 948. L. obscurissima** Nyl. *Delphin.* p. 399, Syn. *L. Mosigii* Hepp in Anzi *Lang.* 153 non Ach.

Ad saxa granitosa circa Bormio (Anzi), St. Moritz, Piz Albris prope Pontresina et prope moles glaciales Rhodani (Metzler), circa hospitium in Valdobbia (Baglietto - Carestia). Var. *granulosa* Hepp *Hb.* gneissicola prope Intschi (Gisler).

- 949. L. armeniaca** (DC. *Fl. Fr.* 2 p. 366) Fr. *S. O. V.* 1 p. 286, Nyl. *Scand.* p. 229, Schaer. *L. H.* 174, Anzi *It. sup.* 264, id. *Lang.* 396, Rbh. *L. E.* 375.

Ad saxa quartzosa e termino superiore Mughì in regionem nivosam — Piz Languard 3600 m. (Metzler) — progrediens. Var. *nigrita* Schaer. *Spic.* p. 126, Nyl. l. c., Schaer. *L. H.* 175, Hepp *Fl. E.* 255,

Anzi *It. sup.* 265 cum priore; a cl. Gisler etiam supra saxa gneissica ad Galenstock vigens notatur; in Valisia (Bader). Var. *lutescens* Anzi *Cat.* p. 66, Nyl. *Arm.* p. 401, Anzi *Lang.* 113, Rbh. *L. E.* 195, *Erb. critt.* 387 ad saxa granitica supra terminum arboreum in Veltlin, circa Bormio (Anzi), in Valdobbia (Carestia) in monte Schwarzhorn supra Tourtemagne (Eberhardt). Var. *aglaeotera* Nyl. in *Flora* 1872 p. 553 in summo Piz Doan (Theobald). Var. *aglaeoides* Nyl. *Delph.* p. 401 nondum in Helvetia reperta; pulcherrima e Tiroliae montibus datur in Arn. *Exs.* 438. Testibus Bagl.-Car. forma hypothallo magis conspicuo aequae sequens *L. melaleuca* decliva meridionalia praeamat, quum ceterae formae septentrionem versus crescunt.

950. * *L. melaleuca* Smmrf. *Lapp.* p. 148, Nyl. *Scand.* p. 229. Summis in montibus Valsesiae (Baglietto-Carestia) et ad pedem montis Rothhorn supra Tourtemagne (Privat).

L. arctogena Fr. fil. *Scand.* p. 533 et *L. armeniaca* f. *intermedia* Müll.-Arg. *Val.* p. 5 serio differe mihi non videntur.

951. *L. psoroides* Bagl.-Car. in *Comm. critt. it.* II p. 82 non Anzi *Symb.* 12.

Saxicola in valle Vogna (Baglietto-Carestia).

952. *L. atrobrunnea* (Ram., DC. *Fl. Fr.* 2 p. 367) Schaer. *Spic.* p. 134, Nyl. *Prodr.* p. 133, Schaer. *L. H.* 444 p. p., Anzi *Lang.* 84 AB, *Erb. critt.* 1081, Rbh. *L. E.* 439.

Ad rupes schistosas et graniticas, rarius arenarias inter terminum superiorem Fagi et nives aeternas. In monte Matterhorn legit Calberla.

953. *L. fuscoatrata* Nyl. in *Flora* 1875 p. 301, Syn. *L. atrobrunnea* v. *subfumosa* Arn. *Tir.* XIV p. 54.

Saxicola in Valdobbia (Baglietto-Carestia).

(Lecidea)

- 954. L. fumosa** (Hffm. *D. Fl.* II p. 190) Whlnb. *Lapp.* p. 475, Nyl. in *Lamy Cat.* p. 123, Schaer. *L. H.* 470, Hepp *K. Z.* 169, id. *Fl. E.* 131.

Ad saxa granitica, schistosa et erratica montium et alpium.

Var. *fuscoatra* Ach. *Syn.* p. 12, Nyl l. c. vix territorio nostro desit.

- 955. L. Privati** Müll.-Arg. *Val.* p. 5.

In pede montis Schwarzhorn supra Tourtemagne (Privat).

- 956. L. grisella** Flk. in *lit.*, Schaer. *En.* p. 110, Nyl. *Lapp.* p. 160, Schaer. *L. H.* 446 pr. p., 492, (625), *Schw. Krypt.* 266, Anzi *Lang.* 110 (non in specim. omnibus), *Krypt. Bad.* 850.

Ad saxa varia in regione campestri et alpina, etiam in monte Salève (Müller).

- 957. L. athroocarpa** Ach. (*Prodr.* p. 77) *Meth.* p. 41, Nyl. in *Lamy Cat.* p. 124 et in *Flora* 1881 No. 1, Anzi *Lang.* 85, (533 ital.).

Ad saxa granitica ferrosa in vallibus di Tartano et Furva (Anzi), in alpe „i Cengi“ supra Riva (Baglietto-Carestia).

- 958. L. polygonia** (Fw. *Siles.* 139) Nyl. in *Flora* 1881 p. 186. Ad saxa duriora „auf Gampeln“ (Gisler).

- 959. L. intricata** Hepp *Fl. E.* 492 sub *Biatora*.

Ad saxa gneissica prope Amsteg (Gisler), prope Hôtel Monvoisin (Müller).

- 960. L. inturgescens** Nyl. in *Flora* 1881 p. 186, Anzi *Lang.* 280. Graniticola in valle di Sotto (Anzi), in monte Salevula (Müller).

- 961. L. subsilacea** Nyl. in *Flora* 1872 p. 357, *Syn. L. lapicida* Bagl.-Car. in *Comm. critt. it.* II p. 383.

Minime rara ad saxa micaschistosa oxydata regionis

subalpinae circa Riva, Alagna, Rima et Carcofora (Baglietto-Carestia).

962. **L. aeneovirens** Müll.-Arg. in *Flora* 1874 p. 530.

Ad saxa micaceo-gneissia prope Torembé in valle de Bagnes (Müller).

963. **L. aenea** Duf. *MS.*, Nyl. *Prodr.* 134, Schaer. *L. H.* 444 p. p. teste Arn. *Tir.* V p. 4, Anzi *Lang.* 111.

Ad rupes graniticas alpium editiorum non rara: Veltlin, Bormio, Bergell (Anzi), alpes Bernenses (Metzler), Valsesia (Baglietto-Carestia), etiam in valle de Bagnes loco Torembé (Müller). Minus frequens magisque subalpina est var. *Garovaglii* (Schaer. *En.* p. 109) Nyl. in *Flora* 1863 p. 77, Anzi l. c. 112 ad saxa granitica vallium di Tartano, Malenco, di Sotto (Anzi).

964. **L. Morio** (Ram., DC. *Fl. Fr.* 2 p. 368) Schaer. *Spic.* p. 133, Nyl. *Scand.* p. 290 et in *Flora* 1872 p. 553, Schaer. *L. H.* 182 pr. p., 227, Hepp *Fl. E.* 603, Anzi *Lang.* 164 AB, *Erb. critt.* 385, Rbh. *L. E.* 386, 441, *Schw. Krypt.* 572.

Ad saxa granitica, quartzosa et micacea summarum alpium. Variat thallo nigrescente (*coracina* Schaer.).

965. **L. nigrocinerea** Nyl. in *Flora* 1872 p. 553, Rbh. *L. E.* 442, Anzi *Lang.* 188, *Erb. critt.* 684.

Ad saxa granitica in summis montibus alpium Rhaeticarum (Anzi), Bernensium (Schaerer, Desor, Metzler), circa Monte Rosa (Carestia), ad pedem montis Schwarzhorn supra Tourtemagne (Bader).

s. Stirps *L. rivulosae*.

966. **L. rivulosa** Ach. *Meth.* p. 38, Nyl. *Scand.* p. 222, Anzi *It. sup.* 250 et *Lang.* 162.

(Lecidea)

Ad rupes graniticas locis tam sylvaticis quam apertis in valle Bergell et in Veltlin (Anzi), prope Imhot in valle Oberhasli, in monte Grimsel et in alpibus Bernensibus unacum specie sequente (Metzler), in Valsesia (Baglietto-Carestia).

- 967. L. Kochiana** Hepp *Würzb.* p. 61, *Nyl. Scand.* p. 223, Schaer. *L. H.* 181, Hepp *Fl. E.* 239, Anzi *It. sup.* 251.

Ad saxa granitica umbrosa e regione Fagi ad nives aeternas ascendens. *F. arenaria* Hepp in Müll.-Arg. *Genev.* p. 50, Hepp *Fl. E.* 729, *Schw. Krypt.* 567 ad saxa arenaria in monte Pilatus (Hepp), ad saxa erratica in monte Salève (Müller). *F. lygaea* Ach. *Syn.* p. 34, *Nyl. l. c.*, Anzi *Lang.* 121, *Erb. critt.* 692 ad saxa primitiva alpium Rhaeticarum (Anzi) et in Valsesia (Carestia), necnon ad rupes roridas circa Guttannen (Schaerer).

t. Stirps *L. intumescens*.

- 968. L. intumescens** Flk., Fw. *Siles.* 175, *Nyl. Prodr.* p. 127, id. *Scand.* p. 231, Hepp *Fl. E.* 258, Anzi *Lang.* 330, *Erb. critt.* 1390, Rbh. *L. E.* 749.

Ad saxa granitica in regionibus subalpinis et alpinis intra crustam *Lecanorae glaucomatis* insulatim; semel unacum *Lecidea geographica* vigentem in valle Malenco supra Torre legit Anzi; etiam ad saxa erratica montis Salève (Müller), frequens in Valsesia (Baglietto-Carestia).

- 969. L. tenebrosa** Fw. in Zw. *Exs.* 134, *Nyl. Prodr.* p. 127, Schaer. *L. H.* 129, Hepp *Fl. E.* 383, Anzi *It. sup.* 212, *Erb. critt.* 1387.

Ad saxa granitosa supra terminum Abietum vulgatissima: St. Moritz (Hepp), Veltlin, Bormio et circa

Chiavenna (Anzi), Tarasp (Killias), in montibus
Urnensibus (Gisler), in Valsesia (Carestia), ad saxa
erratica in monte Salève et prope Torembé (Müller),
prope hospitium montis Simplon (Baglietto).

970. * L. tumidior Nyl. *Arm.* p. 399.

Ad saxa in cacumine montis Furka et prope moles
glaciales Rhodani (Metzler).

971. L. lugubris Smmrf. *Lapp.* p. 143, Nyl. *Scand.* p. 232.

Rara ad saxa granitica in vallibus di Mello, di Sotto
(Anzi), in monte Grimsel (Schaerer), circa Riva
et Alagna in Valsesia (Baglietto-Carestia).

u. Stirps *L. petraeae*.

972. L. coracina Ach. *Syn.* p. 11 pr. p., Nyl. *Scand.* p. 232,
Hepp *Fl. E.* 312, Anzi *Lang.* 192.

Ad saxa primitiva alpium rara: in alpibus Rhaeticis
(Hepp, Theobald, Anzi), in monte Grimsel 2000 m.
(Metzler), in alpe la Bosa supra Riva (Baglietto-
Carestia).

973. L. simillima (Anzi *Symb.* p. 19), Anzi *Lang.* 483.

Ad saxa micacea in praeruptis sylvestribus supra
Bormio (Anzi).

974. L. Montagnei Fw. in *lit.*, Nyl. *Scand.* p. 235, Schaer.
L. H. 443 p. p., Hepp *K. Z.* 174, id. *Fl. E.* 309, Rbh.
L. E. 329, Anzi *It. sup.* 306, Schw. *Krypt.* 164, *Erb.*
critt. 1087.

Ad saxa primitiva varia in alpibus, etiam ad saxa
erratica planitiei.

975. * L. geminata Fw. in *lit.*, Nyl. *Scand.* p. 234, Hepp
Fl. E. 28, 308.

Iisdem locis ut prior.

(Lecidea)

- 976. L. atroalba** Fw. in Zw. *Exs.* 202, Nyl. *Scand.* p. 232, Hepp *Fl. E.* 34.

Ad saxa granitosa alpium: in valle di Sotto (Anzi), prope St. Moritz (Hepp) et Aschera (Killias), in monte Grimsel (Schaerer).

- 977. L. badioatra** Flk. in Spreng. *N. Entdeck.* II p. 95, Schaer. *En.* p. 111, Nyl. *Scand.* p. 233, Schaer. *L. H.* 179, Hepp *K. Z.* 173, id. *Fl. E.* 32, Anzi *It. sup.* 291, Hepp *Fl. E.* 753, Anzi *Lang.* 191, *Erb. critt.* 1392 (tria exsiccata posteriora sistunt f. *rivularem* Fw.).

Ad saxa praesertim granitosa et schistosa planitiei et alpium. F. *rivularis* loca humidiora praeamat.

- 978. L. colludens** Nyl. in *Flora* 1870 p. 38, Schaer. *L. H.* 180, Syn. *L. cinerovirens* Müll.-Arg.

Saxicola in planitie et in alpibus. F. *subhypothallina* Nyl. in *lit.*, Syn. *Buellia Hochstetteri* Krb. ad saxa talcaceo-schistosa in sylvis supra Alfaèdo (Anzi) et circa Alagna (Baglietto-Carestia).

- 979. L. atroalbicans** Nyl. in *Flora* 1875 p. 363, Hepp *Fl. E.* 35, Rbh. *L. E.* 469, Anzi *Lang.* 362, 481, 482.

Ad saxa duriora alpium. F. *Rhododendri* Bagl.-Car. *Comm. critt. it.* II p. 393 ad corticem *Rhododendri ferruginei* circa Riva (Baglietto-Carestia).

- 980. L. heterodoxa** (Müll.-Arg. in *Flora* 1872 p. 537).

Ad saxa arenacea siderolithica soli exposita montis Salève (Müller).

- 981. L. parapetraea** Nyl. in *Flora* 1881 p. 188, Hepp *K. Z.* 175, id. *Fl. E.* 37.

Ad rupes varias et saxa erratica planitiei et alpium. Var. *abnormis* Bagl.-Car. *Anacr.* p. 278 in alpe Laghetto Gianiona vallis Vogna (Baglietto-Carestia).

- 982. *L. distincta*** (Fr. fil. in Falk *Blek.* p. 16, id. *Scand.* p. 625) Stzb. *Hyperb.* p. 7, Hepp *K. Z.* 173, id. *Fl. E.* 36.
Ad saxa erratica durissima prope Zürich (Hepp) et Riffersweil (Hegetschweiler jr.).
- 983. *L. leptolepis*** (Anzi in *Comm. critt. it.* I p. 158) Nyl. in *Flora* 1876 p. 239, Hepp *Fl. E.* 38, Anzi *Lang.* 361.
Ad saxa granitica prope St. Moritz (Hepp), ad saxa micaschistosa in valle Furva (Anzi), in rupibus quartzosis prope Alagna (Baglietto-Carestia).
- 984. *L. lavata*** Ach. *Hb.*, Nyl. in *Flora* 1873 p. 23, Anzi *It. sup.* 309 (*obscurata*).
Ad rupes graniticas alpium editiorum. *F. fuscocinerea* Krmplh. *Bay.* p. 203, Hepp *Fl. E.* 756, Anzi *It. sup.* 307 ad saxa granitosa a planitie ad montes altiores ascendens.
- 985. * *L. excentrica*** Ach. *Meth.* p. 37, Nyl. *Scand.* p. 234, Anzi *It. sup.* 310.
Ad saxa praesertim schistosa in alpibus. Var. *pusilla* (Turn.-Borr. *MS.*), Schaer. *L. H.* 177 p. p., Hepp *Fl. E.* 314 ad saxa erratica prope Zürich (Hepp) et Genf (Müller).
- 986. * *L. concentrica*** (Dav. in *Trans. Linn. Soc.* 2 p. 284) Nyl. *Scand.* p. 234, Schaer. *L. H.* 183 p. p., Hepp *K. Z.* 188, id. *Fl. E.* 149, Anzi *It. sup.* 308.
Frequens ad saxa primitiva planitiei et alpium.
- 987. * *L. umbilicata*** Ram. in *Act. Soc. Linn. Paris* 1827 p. 434, Nyl. *Prodr.* p. 128, Hepp *K. Z.* 182, id. *Fl. E.* 147, Anzi *It. sup.* 311.
Frequens ad saxa calcaria et schistosa e vallibus ad summos alpes ascendens.
- 988. * *L. Oederi*** (Sw., Sm., Ach.) Fr. *L. S.* 384. Nyl. *Scand.* p. 234, Hepp *Fl. E.* 508, Anzi *Lang.* 200.

(Lecidea)

Ad saxa gneissica et micacea ferruginosa praesertim infra zonam Abietum: Veltlin, Bormio (Anzi), prope Catogne et Contamines (Müller).

989. L. subposthuma Nyl. in Arn. *Tir.* XVII p. 22.

Gneissicola prope Riva (Baglietto-Carestia).

v. Stirps *L. spuriae*.

990. L. spuria Schaer. *Spic.* p. 127, Nyl. in *Flora* 1873 p. 202, Hepp *K. Z.* 170, id. *Fl. E.* 33.

Ad saxa erratica prope Zürich (Hepp), in monte Grimsel (Schaerer), Valsesia (Baglietto-Carestia).
Var. *lactea* (Schaer. *En.* p. 120) Anzi *Lang.* 194, Hepp *Fl. E.* 751 ad rupes varias in Veltlin (Anzi) et circa Varallo (Baglietto-Carestia).

991. L. discolor Hepp *Fl. E.* 319, 320, Nyl. in *Flora* 1868 p. 347 et 1880 p. 127, Anzi *Lang.* 193.

Ad saxa erratica prope Zürich (Hepp) et in monte Salève (Rome), ad saxa gneissica prope Rodolo et in valle del Bitto, ad serpentinum prope Como (Anzi), Riva et in monte Fenera (Baglietto-Carestia).

992. L. subnivea Nyl. in *Flora* 1877 p. 232, Syn. *Rinodina nivea* Anzi *Neos.* p. 6.

Unacum *Pertusaria glomerata* ad terram turfoso-mucosam in limite nivium perpetuarum vallis Pisella alpium Rhaeticarum rarissima (Anzi).

993. L. aethalea Ach. *Syn.* p. 10 sub *Gyalecta*, Nyl. in Lamy *Cat.* p. 33 (*L. atroalbella* var.), Hepp *K. Z.* 168 et *Fl. E.* 31, Anzi *Lang.* 196.

Ad saxa duriora montium et planitiei: Veltlin, Chiavenna (Anzi), Hoherohne (Hepp), Distelgrat (Brun).

994. *L. minutula* (Hepp *Fl. E.* 313) Nyl. in *Lamy Cat.* p. 133.
Ad saxa erratica prope Zürich (Hepp).
995. *L. rinodinoidea* (Anzi *Neos.* p. 13).
Ad saxa schistosa supra regionem *Pini Pumilionis* alpis Rocca (Anzi).
996. *L. ocellata* Flk. in *lit.*, Nyl. in *Flora* 1873 p. 202, Anzi *Lang.* 484.
Ad saxa micacea et ad lapides murorum prope Bormio (Anzi), ad saxa granitica prope Mettmenstetten (Hegetschweiler jr.), ad saxa arenacea montis Salève (Müller).
997. *L. subocellata* Müll.-Arg. in *Flora* 1872 p. 498 sub *Buellia*.
Ad saxa arenaria montis Salève (Müller).
998. *L. leptolepidea* Stzb., Syn. *Buellia leptolepis* Bagl.-Car. *Comm. critt. it.* II p. 83.
In summo Monte Rosa (Giordani-Verno, Cas. de Candolle).
999. *L. aequata* (Ach. *L. U.* p. 171) Nyl. in *Flora* 1868 p. 347, Hepp *Fl. E.* 321, Anzi *Lang.* 197.
Ad saxa erratica prope Zürich (Hepp), ad saxa gneissica et micaceo-schistosa in regione collina et montana circa Rodolo, Alfaèdo et Como (Anzi), ad saxa calcaria prope Flüelen (Gisler), in monte Lavarez (Schleicher), circa Mornex (Müller), ad rupes schistosas prope Riva, circa Alagna et in monte Fenera Valsesiae inferioris (Baglietto-Carestia). Var. *depauperata* (Anzi *Lang.* 485) Arn. in *Flora* 1872 p. 292 supra murum e saxis micaceis sine caemento exstructum prope Bormio (Anzi).

(Lecidea)

w. Stirps *L. disciformis**

1000. *L. alboatra* (Hffm. *En.* p. 30) Nyl. *Scand.* p. 235, Schaer. *L. H.* 445, Hepp *K. Z.* 185, 186 (*trabinella*), id. *Fl. E.* 148, 29 (*trabinella*), 310 (*acrustacea*), *Schw. Krypt.* 447, 660 (*trabinella*), Anzi *It. sup.* 312 (*lignicola*), Rbh. *L. E.* 660 (*trabinella*).

Supra cortices et ligna ad terminum arboreum usque ascendens. Var. *athroa* (Ach. *Meth.* p. 36) Nyl. l. c., (Syn. *Diplot. zabothiscum* Krb.) ad corticem Populi prope Genf (Müller). Ejus status saxicola (*L. Heppiana* Müll.-Arg. in *Flora* 1867 p. 436 s. *L. alboatra* var. *murorum* Naeg.) Hepp *K. Z.* 187, id. *Fl. E.* 30 ad saxa erratica et muros prope Zürich (Hepp) et Genf (Müller), necnon ad saxa micaceo-schistosa in Valsesia (Baglietto-Carestia). Var. *leucoplaca* (DC. *Fl. Fr.* 2 p. 347) Nyl. l. c., Hepp *Fl. E.* 470 ad Juglandes prope Konstanz (Stizenberger), ad Juglandes et Quercus prope Genf (Müller). Var. *epipolia* (Ach. *Meth.* p. 53) Nyl. l. c., Schaer. *L. H.* 230, Hepp *K. Z.* 184, id. *Fl. E.* 146, Anzi *It. sup.* 314 ad saxa praesertim calcaria et muros e planitie in summas alpes progrediens. *F. margaritacea* (Smmrf. *Lapp.* p. 148) Nyl. l. c. p. 236 (*Diplot. venustum* Krb. *Pg.* p. 179) ad saxa calcaria in crista alpium Rhaeticarum (Anzi) et in summo monte Grand Salève (Müller). Var. *ambigua* (Ach. *L. U.* p. 161) Nyl. l. c., Anzi *It. sup.* 313 ad muros circa Como et ad saxa granitica in

L. canescens (Dcks. *Crypt.* I p. 10) Ach. *Meth.* p. 84, Nyl. *Prodr.* p. 119 in Leight. *Great Brit.* p. 313 pro Helvetia indicatur.

Veltlin (Anzi). Var. *dispersa* (Krmplh. *Bay.* p. 209)
ad saxa in monte Salève (Müller).

1001. **L. lainea* Ach. *L. U.* p. 347, Nyl. in *Flora* 1873 p. 198.
Supra saxa et lapides Helvetiae mitioris (Schleicher).

1002. *L. lutulenta* Stzb., Syn. *Diplotomma lutosum* Mass.
Misc. p. 41 (non *L. lutosa* Mont.).

Supra la Balme in monte Salève rarissime (Müller).

1003. *L. porphyrica* Arn. *Tir.* VIII p. 22 sub *Diplotommate*.
Saxicola in Valsesia (Baglietto-Carestia).

1004. *L. chlorophaea* (Hepp. *MS.*) Leight. *Great Brit.* Ed. III
p. 328.

Locis occultis ad saxa in radice montis Salève (Müller).

1005. *L. betulina* Hepp in *Flora* 1862 p. 524, Nyl. *ib.* 1873
p. 198.

Ad Abietum corticem in monte Salève (Müller), ad
Alnos juniores paludes incolentes prope Hinweil
et Rüti (Hegetschweiler jr.).

1006. *L. triphragmia* Nyl. *Prodr.* p. 141, id. *Lapp.* p. 163.
Ad muscos in crista montis Colombier (Müller).

1007. *L. disciformis* Fr. in Moug. *St. Vog.* 745, Nyl. *Scand.*
p. 236, Schaer. *L. H.* 197 pr. p., Hepp *K. Z.* 198, id.
Fl. E. 315, 316, Anzi *It. sup.* 294, 295, *Erb. critt.*
1169, 1273, Rbh. *L. E.* 396.

In cortice arborum frondosarum, rarius Coniferarum.

F. microcarpa (Ach. *L. U.* p. 176) Schaer. *En.*
p. 129; id. *L. H.* 199, Hepp *K. Z.* 199, id. *Fl. E.*
754 ad corticem glabrum arborum. *F. ecrustacea*
Nyl. *Prodr.* 141, Schaer. *L. H.* 198, Hepp *K. Z.*
201, id. *Fl. E.* 150, Anzi *It. sup.* 296, Rbh. *L. E.*
729 frequens ad ligna demortua praesertim in
regione montana et alpina. Var. *insignis* (Naeg.)
Nyl. *Lapp.* p. 162, Schaer. *L. H.* 194 pr. p., Hepp

(Lecidea)

Fl. E. 39, 40, *Schw. Krypt.* 364, Anzi *It. sup.* 292, Rbh. *L. E.* 342 ad terram et muscos, necnon ad ligna Coniferarum e regione Mughii in nivosam ascendens.

- 1008. * L. triphragmioides** (Anzi *Anal.* p. 18) Nyl. in *lit.*
Ad corticem Coniferarum et *Betulae albae* in sylvis prope Bormio (Anzi), ad Alnos inter Riva et Alagna (Baglietto-Carestia).
- 1009. L. lividescens** (Bagl.-Car. in *Comm. critt. it.* II p. 392) Nyl. in *lit.*, Syn. *Buellia triphragmia* var. *lividescens* Bagl.-Car. l. c., *Erb. critt.* II 274.
Ad Laricum truncos prope Riva in Valsesia (Carestia).
„Thallus K—“ Nyl. in *lit.*
- 1010. L. papillata** Smmrf. *Lapp.* p. 154, Nyl. *Scand.* p. 238.
Ad muscos herbasque emortuas in vallibus Rhaeticis Urschai 2300 m. (Killias), Pisella (Anzi) et in Valdobbia (Baglietto-Carestia).
- 1011. L. Dubyana** Hepp *Fl. E.* 322, *Schw. Krypt.* 67.
Ad saxa calcaria montis Lägern et prope Liestal (Hepp), Schaffhausen (Schenk), Flüelen (Metzler), Salève, Salevula (f. *nigricans* Müller).
- 1012. L. leptoclinis** Fw. in *Bot. Zeit.* 1850 p. 555, Nyl. in *Flora* 1873 p. 72, Hepp *Fl. E.* 311.
Ad saxa granitica prope St. Moritz (Hepp), in monte Grand Salève (Müller), prope Esery (Bernet).
- 1013. L. contermina** (Arn. *Tir.* XIV p. 55) Nyl. in *Flora* 1878 p. 249, Syn. *Buellia lactea* v. *atrocinerea* Anzi *Anal.* p. 17.
Ad saxa quartzosa alpis Campaccio in valle Sotto (Anzi).
- 1014. L. uberior** (Anzi *Neos.* p. 55) Nyl. in *Flora* 1873 p. 12.
Ad quartzitem in regione Mughii alpis Braulio (Anzi).

- 1015. *L. saxatilis*** (Schaer. *Spic.* p. 225) Naeg. in Hepp *Fl. E.* 145, Nyl. *Scand.* p. 237, Schaer. *L. H.* 240, Hepp *K. Z.* 171, Anzi *Lang.* 198, 486.

Ad saxa gneissiaca, micaceo-schistosa, serpentinae, arenacea et calcaria supra thallum *Lecanorae calcareae*, *L. saxicolae* f. *dealbatae* etc. in montibus et alpibus.

- 1016. *L. allothallina*** Nyl. in *Flora* 1881 p. 188, Syn. *L. athallina* Naeg. in Müll.-Arg. *Genev.* p. 64.

Supra thallum *Baeomycetis rufi* prope Voirons (Müller).

- 1017. *L. badia*** Fw. *Siles.* 242, Nyl. *Prodr.* p. 139, id. *Scand.* p. 238.

Ad saxa granitica erratica in sylvis circa Como (Anzi).

- 1018. *L. subbadia*** (Anzi *Anal.* p. 17) Nyl. in *Flora* 1878 p. 249.

In rupe micaschistosa vallis Furva (Anzi).

- 1019. *L. interjecta*** (Müll.-Arg. in *Flora* 1872 p. 499).

Ad saxa granitica erratica montis Salevulae inter thalli areolas *L. geographicae* (Müller).

- 1020. *L. heteropsis*** (Müll.-Arg. *Val.* p. 10).

Ad saxa prope pontem Rhodani inter Brieg et Naters (Müller).

L. occulta Fw. in *lit.* ad Krb., Lamy *Cat.* p. 138 teste Leight. *Great Brit.* Ed. III p. 325 in Helvetia adest.

- 1021. *L. talcophila*** Ach. *L. U.* p. 183, Krb. *Pg.* p. 460, Anzi *Lang.* 494.

Supra thallum *Lecanorae glaucomatis* et *Urceolariae scruposae* prope Bormio (Anzi) et circa Alagna (Baglietto-Carestia).

- 1022. *L. Sphyrinii*** (Stein) var. *epiconcolor* Bagl.-Car. *Anacr.* p. 288.

(Lecidea)

Supra thallum *Lecanorae concoloris* in alpe Rizzolo prope Riva (Baglietto-Carestia).

1023. L. rimulicola Müll.-Arg. in *Flora* 1872 p. 500.

Supra *Pertusariam degradatam* prope Genf (Müller).

1024. L. vagans (Müll.-Arg. in *Flora* 1872 p. 501).

Supra thallum et apothecia *Lecanorae polytropae* prope Genf (Müller).

1025. L. cupreola (Müll.-Arg. *Genev.* p. 65).

Ad saxa erratica in summo monte Salève rarissima (Müller).

x. Stirps *L. myriocarphae*.

1026. L. myriocarpa (DC. *Fl. Fr.* 2 p. 346) Nyl. *L. P.* 61, id. *Scand.* 237, Schaer. *L. H.* 200 pr. p., Hepp *K. Z.* 200, id. *Fl. E.* 41, 42, 317 (*lignicola*), 318 (*musciicola*), *Schw. Krypt.* 569, Anzi *It. sup.* 298—301, Anzi *Lang.* 556.

Ad cortices praesertim Coniferarum, ligna, muscos herbasque destructas, terram turfosam et saxa, interdum ecrustacea (*punctiformis* Hffm.), a planitie in alpes progrediens.

1027. L. coniops Whlnb. in Ach. *Meth.* suppl. p. 8, Nyl. *Lapp.* p. 162.

Ad saxa erratica Salevulae (Rome).

y. Stirps *L. nigritulae*.

1028. L. nigritula Nyl. in *Bot. Notis.* 1853 p. 99, id. *Scand.* p. 238, Schaer. *L. H.* 200 pr. p., Hepp *Fl. E.* 43, *Schw. Krypt.* 267, Anzi *It. sup.* 293, *Erb. critt.* 1119.

Ad truncos Pinorum, Laricum et Cembrarum in regione montana et alpina.

z. Stirps *L. cerebrinae*.

- 1029. *L. cerebrina*** (Ram., DC. *Fl. Fr.* 2 p. 312) Schaer. *Spic.* p. 136, Nyl. *Prodr.* p. 140, Anzi *Lang.* 202.

Ad saxa calcaria in monte Gemmi (Schaerer), in der Schwalmeren (Fischer), in monte Belmi (Gisler), prope Grosse Scheideck (Metzler) et Premadio (Anzi), circa Plans (Müller).

aa. Stirps *L. premneae*.

- 1030. *L. farinosa*** (Ach. *L. U.* p. 187) Nyl. *Scand.* p. 240.

Ad Quercus circa Bern (Schaerer) et Neuchâtel (Chaillet).

- 1031. *L. premnea*** Ach. *L. U.* p. 173, Nyl. *Scand.* p. 241.

Ad saxa abscondita in sylvis prope Riva et ad muros umbrosos prope Monte di Varallo (Baglietto-Carestia).

- 1032. *L. abietina*** Ach. *L. U.* p. 188, Nyl. *Scand.* p. 241, Schaer. *L. H.* 533, 534, 535.

Ad truncos abietinos in sylvis humidis montis Gurnigel (Schaerer). *F. spermogonifera* minus rara.

bb. Stirps *L. lenticularis*.

- 1033. *L. athallina*** Hepp *Fl. E.* 499) Nyl. in *Flora* 1873 p. 22.

Ad saxa in regione montana et alpina.

De formis variis hujusce lichenis a D^{re} Müller propositis cf. *Flora* 1870 p. 261, 1872 p. 488 et Arn. *Tir.* XVI p. 3.

- 1034. *L. Aspicilliae*** Müll.-Arg. in *Flora* 1872 p. 488 sub *Pattellaria*.

Supra thallum *Lecanorae calcareae* ad saxa propter ripas fluminis Dranse infra Bovernier (Müller).

(Lecidea)

1035. *L. riparia* Müll.-Arg. in *Flora* 1872 p. 498 sub *Pattellaria*.

Ad ripas fluminis Arve prope Genf (Müller).

1036. *L. nigroclavata* Nyl. in *Bot. Not.* 1855 p. 160, Hepp *K. Z.* 181, id. *Fl. E.* 15, Anzi *It. sup.* 257, *Schw. Krypt.* 657, Rbh. *L. E.* 364.

Ad corticem arborum frondosarum prope Zürich (Hepp), Attinghausen (Gisler), in Veltlin (Anzi), Genf (Müller), prope Varallo et in monte Fenera (Baglietto-Carestia).

1037. *L. chabybeia* (Borr. *E. B.* t. 2687) Nyl. *Prodr.* p. 136, Hepp *Fl. E.* 13, Anzi *Lang.* 448.

Ad saxa erratica quartzosa prope Zürich (Hepp), ad rupes micaceo-schistosas circa Como, ad saxa duriora prope Locarno et in Valsesia (Baglietto-Carestia), ad lapides dilabentes prope Mornex (Müller). In monte Salève lectam idem misit sub nomine *L. deplanatula*.

1038. *L. lenticularis* Ach. *Syn.* p. 28, Nyl. *Scand.* p. 242, Schaer. *L. H.* 356 p. p., Hepp *K. Z.* 214, id. *Fl. E.* 12, 498, *Schw. Krypt.* 474, Anzi *Lang.* 120, id. *It. sup.* 254, 255, Rbh. *L. E.* 673.

Supra muros et saxa varia planitiei et montium.

1039. *L. subnitida* (Hellb. *Nerik.* p. 25) Nyl. in Arn. *Tir.* XVI p. 2.

Ad lapides calcarios in Maienthal (Gisler).

1040. *L. endodesmia* Müll.-Arg. in *Flora* 1874 p. 535.

Ad saxa calcaria prope Monvoisin in valle de Bagnes (Müller).

cc. Stirps *L. ostreatae*.

- 1041. *L. ostreata*** (Hffm. *D. Fl.* 2 p. 163) Schaer. *En.* p. 97, Nyl. *Scand.* p. 242, Schaer. *L. H.* 467, Hepp *Fl. E.* 235, Anzi *It. sup.* 236.

Ad Pinorum et Laricum truncos saepe carbonatos in alpihus Rhaeticis: Calanda (Schaerer), Engadin (Heggetschweiler, Hepp), in vallibus di Dentro, Furva, Livigno, in Valsesia (Baglietto-Carestia) et aux Plans supra Bex (Müller). Var. *myrmecina* (Ach., Whlnb.) Nyl. l. c., Syn. *Psora ostr. v. athroocarpa* Anzi *Neos.* p. 8 cum typo in sylvis vallis Furva (Anzi).

- 1042. *L. melancheima*** Tuck. *Syn.* p. 68, Nyl. *Lapp.* p. 164, Schaer. *L. H.* 472 p. p., Rbh. *L. E.* 196, *Erb. critt.* 1233, Anzi *Lang.* 552.

Ad ligna Coniferarum vetusta prope Bormio et in valle Livigno (Anzi), in alpihus Bernensibus (Schaerer), prope Catogne in Valisia (Müller) et in Valsesia (Baglietto-Carestia).

dd. Stirps *L. sanguinariae*.

- 1043. *L. sanguinaria*** Ach. *Meth.* p. 39, Nyl. *Scand.* p. 246, Schaer. *L. H.* 231.

Ad Abietum truncos in regione subalpina montis Gurnigel. Var. *affinis* (Schaer. *En.* p. 132) Nyl. l. c., Schaer. *L. H.* 629, Hepp *Fl. E.* 727, *Schw. Krypt.* 366 ad Abietum truncos in monte Nunenen prope Bern (Schaerer), in Grünwald prope Altorf et Rosswald supra Amsteg (Gisler).

(Lecidea)

ee. Stirps *L. geographicae*.

- 1044. *L. alpicola*** (Schaer. *En.* p. 106) Nyl. *Prodr.* p. 142, id. *Scand.* p. 247, Schaer. *L. H.* 173, Hepp *Fl. E.* 151, Anzi *Lang.* 199, Rbh. *L. E.* 618.

Ad saxa granitica in alpibus editioribus frequens, etiam ad saxa erratica in summo monte Salève (Müller), in summo monte Dent du Midi (Chavel).

- 1045. *L. effigurata*** (Anzi *Cat.* p. 90) Stzb. *Hyperb.* p. 46, Schaer. *L. H.* 577, Anzi *Lang.* 284.

Ad saxa granitica aprica alpium Bormiensium editiorum; in Nesselthal prope montem Susten (Schaerer), circa Bormio (Anzi), in summo Monte Rosa (Cas. de Candolle), in monte Matterhorn (Güttinger).

- 1046. *L. galbula*** (Ram., DC. *Fl. Fr.* 2 p. 368) Nyl. *Prodr.* p. 142, id. *Scand.* p. 247, Schaer. *L. H.* 166, Hepp *Fl. E.* 549, Anzi *Lang.* 134, *Erb. critt.* 270, Rbh. *L. E.* 178.

Ad parietes rupium tenui terra tectos solis omnino expertes humidos Andraeis praecipue instrata in regione Mughi et nivosa alpium.

- 1047. *L. epigaea*** (Pers. in Ust. *N. Ann. Bot.* 1 p. 155) Schaer. *Spic.* p. 118, Nyl. *Prodr.* p. 119, Schaer. *L. H.* 299, 300, Hepp *Fl. E.* 144, Anzi *Lang.* 136, Rbh. *L. E.* 343.

Ad terram sabulosam apricam in alpibus earumque vallibus: supra Bex et in Valisia (Müller), Tardisbrücke prope Chur (Hegetschweiler), Zollbrücke prope Ragaz (Theobald, Stizenberger), Madesimo supra Chiavenna (Anzi), circa Bormio ubi forma *effigurata* deest et tantummodo forma *intermedia* (Schrad. *Spic.* p. 89) ab Anzio notatur.

- 1048. *L. Hookeri*** (Borr. in *E. Bot.* suppl. 1 t. 2622 f. 2)

Schaer. *En.* p. 102, Nyl. *Prodr.* p. 139, Anzi *Lang.* 135, Krb. *S. L. G.* 379.

Ad terram nudam in alpihus calcariis e regione Mughii ad nives aeternas progrediens. Thallo insidit parasita *Sphaeria Hookeri* Nyl.

1049. L. geographica (L. *Spec.* p. 1607) Schaer. *Spic.* p. 124, Nyl. *Scand.* p. 248, Schaer. *L. H.* 172, Hepp *K. Z.* 167, id. *Fl. E.* 152, 325, Schw. *Krypt.* 367, Anzi *It. sup.* 302.

Ad saxa praesertim granitica et schistosa regionum campestrium et alpinarum (Monte Rosa, Finsteraarhorn, Col du Géant, Wetterhorn, Matterhorn) vulgaris, rara ad calcem. Var. *atrovirens* (L.) Schaer., Nyl. ll. cc., Schaer. *L. H.* 623, Hepp *Fl. E.* 153, 324, 755, Schw. *Krypt.* 661, Anzi *It. sup.* 303, 304, id. *Lang.* 343, 344 (ad ligna et cortices) iisdem locis ut typus, rarissime corticola vel lignatilis. Var. *gerontica* (Ach. *Meth.* p. 45) Nyl. l. c., Schaer. *L. H.* 624, Rbh. *L. E.* 961, *Krypt. Bad.* 902 ad saxa calcaria in alpihus, rara in monte Salève (Müller), ad tegulas lateritias prope Konstanz (Stizenberger). Var. *lecanorina* Flk. ex Krb. *S. L. G.* p. 263, Syn. *L. geogr.* var. *cyclopica* Nyl. *Scand.* p. 248 in monte Salève. Var. *urceolata* Schaer. *Spic.* p. 124 et *En.* p. 106 in monte Grimsel (Schaerer), in ejus cacumine Strahleck (Desor), in Göschenenalp (Hegetschweiler jr.) et in monte Salève (Müller).

1050. L. viridiatra Flk., Fw. in *lit.* ad Krb., Nyl. in *Flora* 1881 p. 533, Anzi *It. sup.* 305.

Ad saxa duriora: in summo monte Susten (Schaerer), in montibus Simplon (Baglietto) et Salevula (Rome),

(Lecidea)

circa Como et in Veltlin (Anzi), in Valsesia (Baglietto-Carestia).

- 1051. L. scabrosa** Ach. *Meth.* p. 48, Nyl. *Scand.* p. 247, Hepp *Fl. E.* 548, Anzi *Lang.* 205.

Rara supra terram, saxa arenaria et supra thallum *Baeomycetis rufi* in monte Ütli prope Zürich (Hepp), in alpe Calanda (Theobald), Veltlin, Bormio (Anzi), in alpe Olen (Baglietto-Carestia), Voirons (Müller).

ff. Stirps *L. citrinellae*.

- 1052. L. citrinella** Ach. *Meth.* p. 47, Nyl. *Scand.* p. 248, Schaer *L. H.* 204, Anzi *It. sup.* 262.

Supra terram sabulosam et argillaceam et ad latera rupium graniticarum montium et alpium: ad oras sylvarum circa Bern (Schaerer), in Rhaetia (Theobald, Anzi), Valsesia (Baglietto-Carestia), etiam in Mont Joly et aux Voirons prope Genf (Müller). Var. *alpina* Schaer. *En.* p. 125, Nyl. *Prodr.* p. 144, Schaer. *L. H.* 532 soli turfosi amantior muscosque incrustans in summis alpibus rara parumque copiosa: Susten, Grimsel, Männliflüh, St. Bernhard (Schaerer), Grianspitze in Unterengadin (Theobald).

gg. Stirps *L. parasiticae*.

- 1053. L. parasitica** Flk. *D. L.* 101, Nyl. *Prodr.* p. 154.

Supra crustam Lecanoreorum ad Quercuum et Tiliarum truncos in Bois de Veyrier prope Genf (Müller).

- 1054. L. Parmeliarum** Smmrf. *Lapp.* p. 176, Anzi *Lang.* 230, *Erb. critt.* 739.

Supra thallum *Platysmatis pinastri* et *Parmeliae saxatilis* minime rara.

1055. L. oxysporella Nyl. *En.* p. 127.

Supra thallum *Cladoniae digitatae* in monte Rhaetorum Splügen (Nyl. *Prodr.* p. 145).

Trib. XVII. — GRAPHIDEI.

I. — **Lithographa** Nyl.**1056. L. tesserata** (DC. *Fl. Fr.* 2 p. 313) Nyl. *Scand.* p. 290, Anzi *Lang.* 203.

Ad saxa micaceo-schistosa in sylvis prope Rodolo in Veltlin (Anzi).

II. — **Xylographa** Fr. p. p., Nyl.**1057. X. parallela** (Ach. *L. U.* p. 253) Fr. *S. M.* 2 p. 197, Nyl. *Scand.* p. 250, Anzi *Lang.* 346, *Erb. critt.* 843.

Ad truncos Coniferarum excorticatos supra Seedorf, in Maderanerthal et Älplerwald (Gisler), circa Bormio (Anzi), ad viam montem Simplon transgredientem prope Villagio (Baglietto), circa Riva et Alagna in Valsesia (Baglietto-Carestia) et in monte Eggischhorn Valisiae (Metzler). Var. *pallens* Nyl. *Scand.* p. 230, Anzi *Lang.* 385 ad nudos exsiccatosque Pinorum caudices in sylvis Bormiensibus editioribus (Anzi) et in Maderanerthal (Hegetschweiler jr.).

1058. X. flexella (Ach. in *V. Ak. H.* 1815 p. 258 et 1817 p. 122) Nyl. *Scand.* p. 250.

Ad ligna (Hb. Achar.).

(Agyrium)

III. — **Agyrium** (Fr. p. minima p.) Nyl.

1059. **A. rufum** (Pers.) Fr. *S. M.* 2 p. 332, Nyl. *Scand.* p. 250, Anzi *Lang.* 466.

Ad truncos et ramos nudos exsiccatosque *Pini Mughi* in alpibus Rhaeticis (Anzi).

IV. — **Graphis** Ach., Nyl.*

1060. **G. scripta** Ach. *L. U.* p. 265, Nyl. *Scand.* p. 251, Schaer. *L. H.* 87, 88, Hepp *Fl. E.* 553, 885, Rbh. *L. E.* 584, Anzi *It. sup.* 340, 341, *Erb. critt.* 521.

Ad cortices varios unacum f. *recta* (Humb.) Nyl. l. c. p. 252, Hepp *Fl. E.* 46 p. p. 888, Anzi *It. sup.* 343, var. *pulverulenta* (Pers.) Ach., Nyl. l. c., Schaer. *L. H.* 89 p. p. Hepp *Fl. E.* 886, ff. *abietina* Schaer. *Spic.* p. 47, id. *L. H.* 90, 92, Hepp *Fl. E.* 887, *Krypt. Bad.* 513, *fraxinea* Ach., Nyl. l. c., *horizontalis* Leight. *Brit. Graph.* p. 34, Hepp *Fl. E.* 46 p. p., Anzi *It. sup.* 344, *betuligna* Ach., Nyl. l. c. et var. *serpentina* (Ach.) Nyl l. c., Schaer. *L. H.* 91 p. p., Hepp *Fl. E.* 340, 890, *Schw. Krypt.* 71, *Krypt. Bad.* 671, Anzi *It. sup.* 342.

1061. **G. dendritica** Ach. (*Meth.* p. 31) *L. U.* p. 271, Nyl. *Prodr.* p. 150.

Ad Juglandes prope Riffersweil (Hegetschweiler) et Como (Anzi).

V. — **Opegrapha** Ach., Nyl.

1062. **O. grumulosa** Duf. *Journ. Phys.* 1818, LXXXVII p. 214, Nyl. *Prodr.* p. 152, Anzi *Lang.* 404.

* In Leight. *Great Brit.* Ed. III p. 427 *Graphis elegans* perperam pro Helvetia indicatur.

Ad murum jurassicum sine caemento in oppido Torrigia juxta lacum Larium (Anzi).

- 1063. O. notha** Ach. *Syn.* p. 76, Nyl. in *Flora* 1873 p. 206, *Syn. O. variaeformis* Anzi *Man.* p. 160, Schaer. *L. H.* 282, Hepp *Fl. E.* 165, 345, *Schw. Krypt.* 368, Anzi *It. sup.* 327.

Ad cortices, rarissime ad ligna.

- 1064. O. pulicaris** (Hffm.) Nyl. in *Flora* 1873 p. 206, Schaer. *L. H.* 97, Hepp *Fl. E.* 892, *Schw. Krypt.* 166, *Krypt. Bad.* 668, Anzi *It. sup.* 329, 330.

Ad cortices varios et ligna unacum f. *phaea* Ach., Nyl., Schaer. *L. H.* 518, 520, Hepp *Fl. E.* 166.

- 1065. O. diaphora** Ach. *Meth.* p. 19, Nyl. in *Flora* 1873 p. 206, Schaer. *L. H.* 98, Hepp *Fl. E.* 891, *Krypt. Bad.* 667, Anzi *It. sup.* 328, id. *Lang.* 407 (*saxicola*).

Ad cortices, raro ad rupes. Super saxa arenaria dilabentia prope Bachthalen formam apotheciis divisis legit Hegetschweiler jr. *F. signata* (DC.) Fr. *L. E.* p. 365, Nyl. l. c., Hepp *Fl. E.* 894, *Schw. Krypt.* 573, *Krypt. Bad.* 669 ad cortices. *F. stellaris* Schaer. *En.* p. 157 ad arbores varias inprimis Fraxinos circa Genf (Müller).

- 1066. O. euryspora** Naeg in Hepp *Fl. E.* 895.

Ad corticem *Abietis pectinatae* in monte Pilatus et ad Quercus prope Zürich (Hepp.)

- 1067. O. subparallela** Müll.-Arg. in *Flora* 1871 p. 406.

Ad ligna pinea putrescentia montis Salève (Müller).

- 1068. O. rimalis** Pers., Ach. *L. U.* p. 260, Nyl. *Scand.* p. 253, Hepp *Fl. E.* 893.

Ad Quercus et Populos prope Zürich (Hepp), Frie-wies in Rhaetia (Theobald) et circa Genf (Müller).

(Opegrapha)

- 1069. O. zonata** Krb. *S. L. G.* p. 279, Nyl. in Wainio *Tavast.* p. 119, Anzi *It. sup.* 326.

Ad rupes graniticas umbrosas in regione collina et montana: Veltlin, Como (Anzi), Locarno (Baglietto), Valsesia (Baglietto-Carestia), Salève (Rome).

- 1070. O. atra** Pers. in *Ust. N. Ann.* I p. 30, Nyl. *Scand.* p. 254, Schaer. *L. H.* 461, Hepp *Fl. E.* 341, Anzi *It. sup.* 335 B, 336.

Ad arborum cortices praesertim laevigatos cum var. *denigrata* (Ach. *L. U.* p. 259) Nyl. l. c. et in Lamy *Cat.* p. 148. *F. meliana* (Ach. l. c. p. 260) Nyl. *Scand.* l. c. rarior. Var. *hapalea* (Ach. l. c. p. 267) Nyl. *Prodr.* p. 158, id. *Scand.* l. c., Hepp *Fl. E.* 342 p. p. ad arborum cortices. Var. *parallela* Leight. *Great Brit.* Ed. III p. 399 ad Cerasos prope Genf (Rome). Var. *trifurcata* (Hepp in Müll.-Arg. *Genev.* p. 67) Stzb. *Steinb. Op.* p. 19 ad saxa calcaria circa Como, in valle Gana, prope Premadio (Anzi) et in vicinitate montis Reculet (Müller). Var. *persicina* Müll.-Arg. in *Flora* 1872 p. 502 ad saxa calcaria in pede montis Salève (Müller).

- 1071. O. Chevallieri** Leight. *Brit. Graph.* p. 10, Stzb. *Steinb. Op.* p. 20, Nyl. in *Flora* 1873 p. 203.

Saxicola circa la Balma prope Riva (Baglietto-Carestia).

- 1072. O. viridis** Pers., Nyl. *Scand.* p. 256, Schaer. *L. H.* 96 p. p., Hepp *Fl. E.* 164.

Ad corticem Abietum: prope Zürich (Hepp), in valle di Tartano (Anzi), in sylvis Urnensibus, ubi supra Seedorf etiam ad Fagos reperitur (Gisler).

- 1073. O. lithyrga** Ach. *Syn.* p. 72, Stzb. *Steinb. Op.* p. 7, Nyl. in Lamy *Cat.* p. 149, Hepp *Fl. E.* 348.

Ad saxa erratica prope Zürich (Hepp), ad saxa gra-

(Opegrapha)

- nitica in Valsesia (Baglietto-Carestia), ad saxa micaceo-schistosa in Helvetia australiori (Schleicher).
- 1074. *O. vulgata*** Ach. *Meth.* p. 20, *Nyl. Scand.* p. 255, Schaer. *L. H.* 516.
Rara ad corticem et truncos denudatos Abietum.
- 1075. *O. subsiderella*** *Nyl. Scand.* p. 255 et in *Lamy Cat.* p. 149, Schaer. *L. H.* 93, Hepp *Fl. E.* 344, *Schw. Krypt.* 478, Anzi *It. sup.* 333, *Erb. critt.* 841.
Ad arborum variarum cortices.
- 1076. *O. rufescens*** (Pers. in *Ust. N. Ann.* I p. 29) *Nyl.* in *Lamy Cat.* p. 150, Schaer. *L. H.* 95, Hepp *Fl. E.* 557, Anzi *It. sup.* 339, *Erb. critt.* 585.
Ad arborum corticem cum var. *subocellata* Ach. *Syn.* p. 73, *Nyl.* l. c., Hepp *Fl. E.* 556, *Schw. Krypt.* 70, Anzi *It. sup.* 338. Var. *astroidea* Müll.-Arg. in *Flora* 1871 p. 406 ad corticem truncorum subannosorum *Abietis pectinatae* in monte Salève (Müller).
- 1077. *O. herpetica*** Ach. *Meth.* p. 23, *Nyl. Scand.* p. 255 et in *Lamy Cat.* p. 150, Schaer. *L. H.* 281, 633, Hepp *Fl. E.* 47, 555, *Schw. Krypt.* 675, *Rbh. L. E.* 443.
Ad corticem arborum variarum unacum var. *fuscata* Schaer. *En.* p. 160, *Nyl.* ll. cc.
- 1078. *O. confluens*** (Ach. *L. U.* p. 247) *Stzb. Steinb. Op.* p. 22.
Ad saxa montis Salève (Müller).
- 1079. *O. saxicola*** Ach. *Syn.* p. 71, *Nyl. Scand.* p. 254, Schaer. *L. H.* 94, Hepp *Fl. E.* 346, Anzi *Lang.* 405.
Ad saxa arenaria, calcaria et dolomitica: prope Konstanz (Stizenberger), Erosa, Bergün, St. Moritz (Hepp, Theobald), circa Como (Garovaglio, Anzi), in Valsesia (Baglietto-Carestia), in monte Jura (Müller, Millardet), prope Zürich et in monte Lägern (Hepp), prope Buonas (Hegetschweiler jr.), ad thermas

(Opegrapha)

Weissenburgenses (Schaerer). Var. *Decandollei* Stzb. *Steinb. Op.* p. 26, Nyl. in *Hb. Lojka*, Hepp *Fl. E.* 347, Anzi *Lang* 406 ad saxa calcaria montis Lägern et prope Liestal (Hepp), circa lacum Larium (Anzi) et circa Monnetier (Müller). Var. *centrifuga* (Mass. *Misc.* p. 18) Stzb. l. c. p. 28 parasitica supra *Lecanoram calcaream* et *Lecideam chalybeiam* in monte Salève (Müller). Var. *Persoonii* Ach. *Meth.* p. 17, Stzb. l. c. p. 30 ad rupes dolomiticas montis Fenera in Valduggia supra Riva (Baglietto-Carestia) et in monte Salève (Müller). Var. *sublecideina* Arn. *Tir.* XI p. 9 calcicola in Riva (Baglietto-Carestia).

1080. O. gyrocarpa Fw. in *Flora* 1825 p. 345, Stzb. *Steinb. Op.* p. 29, Nyl. in Norrl. *H. L. F.* 50.

Ad saxa arenacea prope Gossau (Hegetschweiler jr.).

1081. O. Elisae (Mass. *Symm.* p. 66) Stzb. *Steinb. Op.* p. 35.

Ad saxa prope Premadio, in vicinitate molium glacialium intra alpes Sobretta et Plaghera et in valle di Madesimo (Anzi).

VI. — *Platygrapha* Nyl.

1082. P. periclea (Ach. *Meth.* p. 156) Nyl. *Scand.* p. 256, Schaer. *L. H.* 313, Hepp *K. Z.* 192, id. *Fl. E.* 140, Anzi *It. sup.* 325, *Erb. critt.* 519.

Ad corticem *Piceae*, *Abietis* et *Quercus planitiei* et alpium: Schaffhausen (Schenk), Zürich, Hoherohne (Hepp), in ditone Turicensi (Hegetschweiler jr.), Urnensi (Gisler), Gurnigel (Schaerer), Veltlin (Anzi), Riva et Alagna (Baglietto-Carestia), circa Genf (Müller) et Neuchâtel (Cornaz).

- 1083. P. ? decussata** (Fw. in *Bot. Zeit.* 1850 p. 570) Almqu.
Arth. p. 24, Anzi *Lang.* 201.

Ad saxa granitica inumbrata in Veltlin (Anzi) et in
Valsesia (Baglietto-Carestia).

VII. — Arthonia Ach.

A. Euarthonia.

a. Stirps *A. cinnabarinae*.

- 1084. A. cinnabarina** Willr. *D. Fl.* III p. 320, Nyl. *Scand.*
p. 257, Schaer. *L. H.* 239, 649, Hepp *Fl. E.* 162, 163,
Schw. Krypt. 72, Anzi *Lang.* 518.

Ad arborum cortices in sylvis campestribus frequens
et variabilis.

- 1085. A. ochracea** Duf. *Journ. Phys.* 1818, LXXXVII p. 205,
Nyl. *Prodr.* p. 164, Hepp *Fl. E.* 354, Anzi *It. sup.* 317,
Erb. critt. 278.

Ad arborum frondosarum corticem in sylvis: circa
Como (Anzi), Zürich, Liestal (Hepp), Riffersweil
(Hegetschweiler), Belp (Schaerer), ad lacum Ver-
banum (de Notaris), prope Genf (Rome).

b. Stirps *A. spadiceae*.

- 1086. A. spadicea** Leight. *Exs.* 97, Nyl. in *Flora* 1875 p. 363,
Syn. *A. lurida* Ach. *L. U.* p. 143 et Schaer. *Spic.* p. 8,
id. *L. H.* 17, Hepp *Fl. E.* 161, *Schw. Krypt.* 167,
Krypt. Bad. 444, Rbh. *L. E.* 473 p. p.

Ad Pinos et Abietes praesertim sylvarum campestrium:
circa Konstanz (Leiner), Zürich (Hepp), Brem-
garten prope Bern (Schaerer), circa Genf (Müller);
ex alpinis Rhaeticis eam retulit Theobald.

(Arthonia)

- 1087. A. pineti** Krb. *S. L. G.* p. 292, *Nyl. Scand.* p. 261, Anzi *Lang.* 435 p. p.

Ad corticem *Abietis pectinatae* et Fagi prope Riffersweil (Hegetschweiler jr.), ad Abietes prope Genf unacum var. *decipiente* Krb. *Pg.* p. 266 (Müller), in sylvis vallis Tellinae (Anzi) et circa Riva (Baglietto-Carestia).

- 1088. A. myocoprodes** Nyl. in *lit.*, Syn. *Buellia copromya* Anzi *Lang.* 341.

Ad truncos juniores *Pini Cembrae* in sylvis densioribus montis Sobretta (Anzi).

c. Stirps *A. pruinosa*.

- 1089. A. pruinosa** Ach. *L. U.* p. 147, *Nyl. Scand.* p. 258.

Ad corticem *Quercuum annosarum* prope Mettmestetten (Hegetschweiler jr.).

- 1090. A. biformis** (Flk. *D. L.* 122a) Schaer. *En.* p. 243, *Nyl.* in *Flora* 1878 p. 286.

Spermogonifera (Schaer. *L. H.* 286, Hepp *Fl. E.* 229, Rbh. *L. E.* 392) ad *Quercus annosas* frequens.

- 1091. A. cinereopruinosa** Schaer. *En.* p. 243, *Nyl. Prodr.* p. 167 et *Lapp.* p. 187, Schaer. *L. H.* 251.

Ad *Abietis pectinatae* annosae corticem in sylvis densissimis montis Gurnigel (Schaerer).

- 1092. A. medusula** *Nyl. Prodr.* p. 165 (var. *A. pruinosa*) et in *Flora* 1881 No. 1, Hepp *Fl. E.* 898, *Schw. Krypt.* 268, Rbh. *L. E.* 684.

Ad *Quercus annosas* in sylva prope Liestal (Hepp).

d. Stirps *A. astroideae*.

- 1093. A. marmorata** (Ach. *Hb.*) *Nyl. Scand.* p. 258, Syn. *A. Schaereri* Mass. *Symm.* p. 68.

Ad truncos Pinorum in monte Gurnigel (Schaerer).

(Arthonia)

- 1094. A. astroidea** Ach. *Syn.* p. 5, Nyl. *Scand.* p. 259, Schaer. *L. H.* 16, Hepp *Fl. E.* 351, 353, Anzi *It. sup.* 120.

Frequens in sylvis planitiei et montium ad variarum arborum corticem. F. *betulicola* (Mass. *Descr.* p. 22) ad corticem *Betulae albae* in Alagna (Baglietto-Carestia). Var. *obscura* (Ach. *Syn.* p. 6) Schaer. *En.* p. 155, Nyl. in Lamy *Cat.* p. 152 ad corticem arborum variarum. Var. *radiata* Pers., Nyl. *Scand.* p. 259, Schaer. *L. H.* 634 ad Fraxinos prope Konstanz (Stizenberger), frequens in sylvis Rhaetiae meridionalis (Anzi). Var. *Swartziana* (Ach. *Syn.* p. 5) Nyl. l. c., Schaer. *L. H.* 462, Hepp *Fl. E.* 352, Rbh. *L. E.* 631 ad arbores varias frequens. F. *cinerascens* Ach. l. c., Schaer. *L. H.* 463 ad corticem Pini: Dôle (Müller). Var. *subparallela* Müll.-Arg. *Hb.* ad Cerasos prope Genf (Rome).

- 1095. A. reniformis** (Pers. in Ust. *N. Ann.* I p. 31) Ach. *Meth.* p. 23, Nyl. in *Flora* 1867 p. 330 et in Lamy *Cat.* p. 152, Schaer. *L. H.* 517 p. p., Hepp *Fl. E.* 897.

Ad corticem *Carpini Betulae* junioris prope Zürich (Hepp) et Aïre (Rome).

e. Stirps *A. spectabilis*.

- 1096. A. anastomosans** (Ach. *L. U.* p. 146) Nyl. *Scand.* p. 259.

Ad corticem Juglandis prope Stäfa et *Rhamni Frangulae* in turfosis prope Riffersweil (Hegetschweiler jr.).

- 1097. A. Ruanidea** Nyl. in *lit.*

Ad corticem Coryli, Fraxini et *Abietis pectinatae* prope Gossau, Riffersweil et Maschwanden (Hegetschweiler jr.).

(Arthonia)

- 1098. A. rosacea** Anzi *Lang.* 435 p. p.
Ad Abietum truncos in sylvis densioribus vallis Tellinae (Anzi).
- 1099. A. spectabilis** Fw. in *lit.* ad Schaer., *Nyl. Scand.* p. 259, Hepp *Fl. E.* 536, Rbh. *L. E.* 685, *Schw. Krypt.* 269, Anzi *Lang.* 206.
Ad Carpinos et Quercus in sylvis: prope Basel (Hepp), Como (Anzi).
- 1100. A. subastroidea** Anzi in *Comm. critt. it.* II p. 22, id. *Lang.* 468.
Ad corticem laevigatum *Pini Cembrae* in sylvis densioribus circa Bormio (Anzi).
- f. Stirps *A. punctiformis.*
- 1101. A. punctiformis** Ach. *L. U.* p. 141, *Nyl. Scand.* p. 260.
Ad cortices laeves arborum et fruticum, etiam in monte Salève (Müller). Var. *regularis* (*A. obscura* var. *regularis* Ach. *Hb.*) *Nyl. in lit.*, Anzi *Lang.* 208 ad cortices laeves arborum juniorum circa Como (Anzi). Var. *melantera* (Ach. *L. U.* p. 143) *Nyl. in lit.* non Almqu. *Arth.* p. 36, Anzi *Lang.* 265 ad corticem Coryli, Quercus et Aceris: Veltlin (Anzi), Genf (Müller), Riva (Baglietto-Carestia).
- 1102. A. dispersa** (Schrad. *Samml.* 167) *Nyl. Scand.* p. 261, Hepp *Fl. E.* 343.
Ad corticem Aceris et Aesculi prope Zürich (Hepp) et Genf (Müller) et *Rhamni Frangulae* prope Grüningen (Hegetschweiler jr.). Var. *Ribis* Bagl.-Car. *Anacr.* p. 310, Rbh. *L. E.* 974 supra corticem *Ribis petraei* in Riva (Baglietto-Carestia).
- 1103. * A. Cytisi** Mass. *Mem.* p. 114, Anzi *Lang.* 436, 467 (*Cembrae*).

- In cortice laevigato *Cytisi alpini* circa Como (Anzi) et Riva (Baglietto-Carestia), in cortice laevi *Pini Cembrae* prope Bormio rara (Anzi).
- 1104. A. excipienda** Nyl. *Scand.* p. 261.
Ad corticem *Berberidis* et *Ligustri vulgaris* prope Gossau et Grüningen (Hegetschweiler jr.).
- 1105. A. galactites** Duf. in *Journ. Phys.* 1818, LXXXVII p. 203, Nyl. in *Flora* 1873 p. 207.
Ad Populos prope Como (Anzi) et Locarno (Baglietto).
- B. Allarthonia** Nyl. in *Flora* 1878 p. 246.
- 1106. A. Ruana** Mass. *Ric.* p. 49, Anzi *Lang.* 383.
Ad Juglandes et Fraxinos in planitie inter oppida Mergozzo et Ornavassa in Pedemontio (Anzi).
- 1107. A. mediella** Nyl. *Scand.* p. 259, Hepp *Fl. E.* 509.
Ad corticem Coniferarum vetustarum in montibus circa Genf (Müller), Mollia et in valle d'Otro (Baglietto-Carestia).
- 1108. A. tabidula** Anzi *Anal.* p. 19.
Ad corticem laevigatum *Pini Cembrae* prope Bormio (Anzi).
- 1109. A. patellulata** Nyl. *Scand.* p. 262, Anzi *It. sup.* 316.
Circa Como in cortice laevigato Mori (Anzi).
- 1110. *A. nephromiaria** Nyl. *Lapp.* p. 187.
Supra lobos thalli *Physciae stellaris* in valle de Bagnes loco Torembé (Müller).
- 1111. A. lapidicola** (Tayl. *Fl. Hib.* 2 p. 124) Nyl. in *Crombie Brit.* p. 105 et in *Flora* 1881 p. 535.
Calcolica in montibus Salève (Müller) et Axen (Gisler), necnon in alpibus Rhaeticis Starlegia et Piatta prope Bormio (Anzi).

(Arthonia)

1112. A. apatetica (Mass. *Symm.* p. 50) Nyl. in *lit.*, Hepp *Fl. E.* 473.

Ad arborum frondosarum corticem prope Pfäffikon (Hegetschweiler jr.), Zürich (Hepp), Como (Anzi) et Genf (Müller).

1113. A. rugulosa (Krmplh., Krb. *Pg.* p. 217) Almqu. *Arth.* p. 55, Hepp *Fl. E.* 472, Anzi *Lang.* 210.

Ad corticem arborum frondosarum in regione campestri.

1114. A. clemens (Tul. *Mém. Lich.* p. 124) Nyl. in Norrl. *Tavast.* p. 193, Anzi *Lang.* 525.

Parasitans supra discum *Lecanorae chrysoleucae* et *saxicolae* montium Bormiensium (Anzi), *L. albo-pruinosa* in monte Salève et *L. polytropae* in valle de Bagnes prope Torembé (Müller).

1115. A. varians (Dav. in *Trans. Linn. Soc.* 2 t. 28 f. 3) Nyl. *Scand.* p. 260, Anzi *It. sup.* 400.

In disco apotheciorum *Lecanorae glaucomatis* in Veltlin (Anzi) et in monte Salève (Müller).

VIII. — *Melaspilea* Nyl.

1116. M. arthonioides (Fée *Ess.* p. 107 et *Suppl.* p. 103) Nyl. *Prodr.* p. 170, Hepp *Fl. E.* 550.

Ad cortices Ulmi in arce urbis Neuchâtel (Hepp), Fraxini in monte Salève (Müller) et *Quercus* prope Présinge (Rome).

1117. M. deformis (Schaer. *Spic.* p. 331) Nyl. *Prodr.* p. 170, Schaer. *L. H.* 283 p. p., Hepp *Fl. E.* 350.

Ad Juglandes et Fraxinos prope Zürich, Liestal (Hepp), Zug (Hegetschweiler jr.), Como (Anzi). In Hb. Ach. ad corticem Fagi et Carpini ex Helvetia adest (Ach. *Syn.* p. 338).

- 1118. M. mycetoides** (Anzi *Anal.* p. 19) Nyl. in *Flora* 1881 p. 188.
Ad corticem *Pini Piceae* in sylvis circa Bormio (Anzi).
- 1119. M. proximella** Nyl. (*Scand.* p. 262) in Norrl. *Torn.* p. 343, Anzi *Lang.* 342.
Frequens ad corticem Mughorum in valle Rhaetica di Fraèle (Anzi) et ad Fraxinos juniores prope Gossau (Hegetschweiler jr.).
- 1120. M. Rhododendri** (Arn. in *Flora* 1872 p. 152) Almqu. *Arth.* p. 44.
Supra corticem Rhododendri in Valsesia (Baglietto-Carestia).
- 1121. M. Peltigerae** Nyl. *Pez. Fenn.* p. 65, Arn. *Exs.* 700.
Supra thallum *Peltigerae caninae* in sylvis prope Zürich (Winter).

Trib. XIX. — PYRENOCARPEI.

I. — **Thelocarpon** Nyl.

- 1122. T. Laureri** (Fw. in *Bot. Zeit.* 1847 p. 65) Nyl. *Pyrenoc.* p. 10.
Ad moenium humidum prope Aeugst, ad saxa putrescentia et supra corium vetustum prope Gossau (Hegetschweiler jr.).
- 1123. T. epibolum** Nyl. in *Flora* 1866 p. 420.
Supra thallum *Solorinae croceae* certe inveniendum.
- 1124. T. epilithellum** Nyl. in *Flora* 1865 p. 605.
Ad saxa varia putrida circa Mettmenstetten (Hegetschweiler).
Ulterioris *Thelocarpi* speciei, quam D. Kemmler prope Berr ad saxa legit, partes internae nimis imperfectae erant quarum rite determinari potuerit.

(Normandina)

II. — Normandina Nyl.

1125. *N. pulchella* (Borr. *E. B.* suppl. t. 2602 f. 1) Nyl. *Antill.* p. 22, Hepp *Fl. E.* 476, Anzi *It. sup.* 355, *Erb. critt.* 1238.

Supra *Frullaniam dilatatam* e regione campestri usque ad nivosa ascendens, minime rara at semper sterilis.

1126. *N. laetevirens* (Turn. in *Hb. Ach.*, Borr. *E. B.* t. 2658) Nyl. *Scand.* p. 264.

Inter muscos in sylvis campestribus et summis in alpibus.

III. — Endocarpon Hedw., Nyl.

1127. *E. miniatum* Ach. *Meth.* p. 127, Nyl. *Scand.* p. 264, Schaer. *L. H.* 112, Hepp *Fl. E.* 218 a, Anzi *It. sup.* 356, id. *Lang.* 266 (*spermogoniferum*).

Ad saxa granitica et calcaria. Var. *complicatum* (Ach. l. c. p. 128) Nyl. l. c. p. 265, Schaer. *L. H.* 113, Hepp *Fl. E.* 218 b, *Schw. Krypt.* 669, Anzi *It. sup.* 357 cum priore. Ab hoc parum recedit var. *decepiens* Mass. *Ric.* p. 184, Nyl. in *lit.*, Schaer. *L. H.* 114 dextr., Hepp *Fl. E.* 667, Anzi *Lang.* 217, Krb. *L. S. G.* 397 ad saxa tam granitica quam calcaria montium editiorum Rhaetiae (Hochstetter, Theobald, Brügger, Killias, Anzi), in montibus Rosstock (Gisler), Montblanc, in summo Monte Rosa et Olen (Baglietto-Carestia), Reculet et Grand Muveran (Müller). Var. *canum* Krmplh. *Bay.* p. 229 graniticola in Valsesia (Baglietto-Carestia).

1128. *E. leptophyllum* Ach. *Syn.* p. 102, Nyl. in *Flora* 1876 p. 576.

Ad lapides calcarios in rivulis vallis Rhaeticae Gioera (Anzi).

- 1129. E. fluviatile** DC. *Fl. Fr.* 2 p. 413, *Nyl. Scand.* p. 265, Schaer. *L. H.* 114 sin., Hepp *Fl. E.* 668, Anzi *Lang.* 216, *Erb. critt.* 846.

Ad saxa irrigua et ad rivulorum lapides in alpi-
bique ad moles glaciales progrediens; etiam in
monte Salève supra Crevin (Rome).

- 1130. E. rufescens** Ach. *L. U.* p. 304, *Nyl. Scand.* p. 265, Schaer. *L. H.* 465, Hepp *Fl. E.* 219, *Schw. Krypt.* 369 p. p.

Locis petrosis apricis ad terram necnon ad saxa prae-
sertim calcaria in regionibus montanis: Zürich
(Hepp), Rhaetia (Theobald, Killias), Altorf (Gisler),
in Valsesia (Baglietto-Carestia), Genf (Müller), Biel
(Schaaff). *F. lachneum* (Ach. *L. U.* p. 299) *Nyl.*
Lapp. p. 188 „supra terram et muscos putrefactos
in rupibus Helvetiae“ Ach. l. c.

- 1131. E. hepaticum** Ach. *L. U.* p. 298, *Nyl. Scand.* p. 365, Schaer. *L. H.* 115, Hepp *Fl. E.* 220, Anzi *Lang.* 348.

Ad terram et saxa arenaria et calcaria planitiei et
alpium, ubi altius ascendit quam *E. rufescens*:
Schaffhausen (Schenk), Zürich (Hepp), alpes Rhae-
ticae (Theobald, Anzi), Bern et alpes Bernenses
(Schaerer, Metzler), prope hospitium in Valdobbia
(Baglietto-Carestia), Salève, Dôle, Reculet prope
Genf et in Torembé (Müller).

„Locis umbrosis pallidum evadit; tunc in Ach. *Syn.* 98 (ex
Helvetia) *E. albatum* dicitur“ *Nyl.*

- 1132. E. Schaereri** (Fr. *L. E.* p. 106, *Nyl. Pyrenoc.* p. 19)
Nyl. in lit., Schaer. *L. H.* 288.

Ad saxa calcaria in montanis Helvetiae mitioris: Neu-
châtel (Hepp), Valisia (Schaerer), Salève (Müller).

- 1133. E. compactum** (Mass. *Misc.* p. 32) *Nyl. Pyrenoc.* p. 16.

(Verrucaria)

Calccicola in Valsesia (Baglietto-Carestia) et supra Monnetier (Müller).

IV. — Verrucaria Pers., Nyl.

a. Stirps *V. tephroidis*.

1134. *V. crustulosa* Nyl. in Lamy *Cat.* p. 157, Anzi *Lang.* 487.

Ad rupem micaceam in valle del Forno rarissima (Anzi).

1135. *V. tephroides* (Ach. *Prodr.* p. 18) Nyl. *Scand.* p. 267, Schaer. *L. H.* 647, Hepp *Fl. E.* 221, Anzi *It. sup.* 358.

Supra terram locis apertis montium et alpium tam granitosarum quam calcariarum vulgaris: Zürich (Hepp), Schaffhausen (Schenk), montes Rhaetici (Theobald, Killias, Anzi), Urnenses (Gisler), Bernenses (Metzler), in montibus Rigi et Pilatus (Hepp), Simplon (Baglietto), in Valsesia (Baglietto-Carestia), Genf et Torembé (Müller).

1136. *V. Waltheri* (Krmplh. *Bay.* p. 233) Nyl. *Pyrenoc.* p. 18.

Supra terram in monte Olen (Baglietto-Carestia).

1137. *V. Tremniacensis* (Mass. *Sert. lich.* in *Lotos* 1856 p. 79) Nyl. in *lit.*

Ad muros prope Erstfelden (Hegetschweiler jr.) et propter ripas fluminis Arve (Rome).

1138. *V. daedalea* (Krmplh. in *Flora* 1855 p. 66) Nyl. *Arm.* p. 403.

Supra terram et muscos in alpibus Rhaeticis tam granitosis quam calcariis: Braulio, Rocca, Gàvia, Vallunga, in vallibus di Pisella et di Fraèle (Anzi), circa Genf?, Vallon d'Arpette (Müller).

1139. *V. dermatocarpoides* (Anzi *Anal.* p. 20). In rimis rupium serpentinearum prope Campello (Anzi).

„Comparanda cum *V. cervinula*“ Nyl. in *lit.*

1140. *V. crenulata* Nyl. *Pyrenoc.* p. 18, *Schw. Krypt.* 155.
Supra terram arenosam in fissuris rupium montis Sa-
lève prope Genf (Müller).

1141. *V. psoromia* Nyl. *Pyrenoc.* p. 19, Schaer. *L. H.* 599.
Supra muscos ad truncos Tiliae: Neuchâtel (Chaillet),
Solothurn (Schaerer).

b. Stirps *V. pallidae*.

1142. *V. pulvinata* (Fr. fl. *Arct.* p. 257) Nyl. in *Stzb. Hyperb.*
p. 52, Anzi *Lang.* 219.

Ad rupes graniticas tenui terra muscisque obiectas
a planitie in regionem glaciale usque progrediens:
in alpibus Rhaeticis (Anzi), prope Locarno (Bag-
lietto), in Valsesia (Baglietto-Carestia), in monte
Reculet (Müller).

1143. *V. pallida* (Ach. *L. U.* p. 301) Nyl. *Prodr.* p. 178, id.
Scand. p. 268, Anzi *Lang.* 218 B.

Ad muros calcarios terrosos absque caemento supra
Bormio (Anzi) et in Valsesia (Baglietto-Carestia).

1144. **V. psorodea* Nyl. *Lapp.* p. 188.

Ad muros et saxa circa Riffersweil et Aeugst (Heget-
schweiler jr.).

1145. *V. Garovaglii* Mont. *Syll.* p. 367, Nyl. *L. P.* 90, id.
Scand. p. 268, Hepp *Fl. E.* 100, Anzi *Lang.* 218 A.

Supra terram, ad saxa et muros regionis collinae et
montanae: Zürich (Hepp), Chiavenna, Val Malenco,
Bormio (Anzi), Genf, Bovernier (Müller), inter Riva
et Alagna (Baglietto-Carestia). Var. *glomerulifera*
(*Mass. Mem.* p. 141) in rimis muri annosi sine
calce exstructi prope Alagna (Baglietto-Carestia).

(Verrucaria)

c. Stirps *V. umbrinae*.*

1146. *V. fissa* Tayl. *Fl. Hib.* 2 p. 95, Nyl. in *Hb. Lojka*, Hepp *Fl. E.* 103, Anzi *Lang.* 234 A, *Erb. critt.* 1397.

Ad saxa granitosa humida et ad lapides lacuum et rivulorum aqua tersos in montibus: Engadin (Hepp), Veltlin (Anzi), Valsesia (Carestia), Leutschachsee, Susten, Furka (Gisler), Maderanerthal (Hegetschweiler jr.).

1147. *V. abscondita* (Krmplh. in *lit.* et in Arn. *Exs.* 15) Nyl. in *Hb. Lojka*.

Ad saxa in monte Salève (Müller).

1148. *V. clopima* Whlnb. in Ach. *Meth.* suppl. p. 19, Nyl. *Scand.* p. 269, Hepp *Fl. E.* 101, 949, Anzi *It. sup.* 397, Rbh. *L. E.* 495.

Ad saxa varia locis humidis praecipue alpinis: Zürich, St. Moritz (Hepp), Albula, Gemmi, Tête noire (Schaerer), in monte Simplon (Baglietto), prope hospitium in Valdobbia (Baglietto-Carestia). Var. *porphyria* (Mey. *Un. Itin.* 1828), Hepp *Fl. E.* 102, Anzi *It. sup.* 399, Krb. *L. S. G.* 380 ad saxa calcaria alpium: Engadin (Hepp), Val Malenco, Bormio (Anzi), Nairs (Killias), ad saxa granitosa prope Realp (Gisler), in montibus Grand Muveran et Salève (Müller) et in valle Montasca prope Riva (Baglietto-Carestia). Var. *spadicea* (Wallr. *Flor. Germ.* III p. 308, Krb. *S. L. G.* p. 338) prope St. Moritz (Metzler). Var. *protuberans* (Schaer. *Spic.* p. 429), Schaer. *L. H.* 483, Anzi *It. sup.* 398 frequens in alpibus Rhaeticis aequae ac var. *clpimoides* Anzi

* *Gonidimia hymenialia* nulli hujusce stirpis speciei desunt.

Lang. 234 B, quam insuper e Valdobbia indicant Baglietto-Carestia. Aquas alpinas limpidas et lente fluentes praeamat.

1149. **V. elegans* Wallr. *Flor. Germ.* III p. 303, Nyl. in *Hb. Lojka.*

Ad rupes siccas in Maderanerthal (Hegetschweiler jr.).

1150. *V. rufa* Gar. *Tent.* p. 155, Anzi *Lang.* 235, 410, 577.

Ad saxa marmorea et calcis jurassicae prope Como, in Veltlin et circa Bormio praesertim locis aridis (Anzi).

1151. *V. caesia* (Arn. in *Flora* 1858 p. 251).

Ad saxa calcaria prope Engelberg (Metzler) et in monte Salève (Müller), ubi adhuc frequentior var. *saprophila* (Arn. l. c.).

1152. *V. rupifraga* (Mass. *Symm.* p. 26) Nyl. in *Crombie Brit.* p. 109.

Ad saxa calcaria prope Como (Anzi), Meyringen, Lauterbrunnen (Metzler) et in monte Salève (Müller).

1153. *V. solvens* (Anzi in *Comm. critt. it.* II p. 27), id. *Lang.* 286 p. p., 535.

Ad rupes calcarias irroratas in Val Pisella (Anzi).

1154. *V. hymenogonia* Nyl. *Prodr.* p. 184.

Ad saxa arenacea „in der Hölle“ prope Baar (Hegetschweiler jr.). Forma minor ad terram nudam in monte Albis (id.). Var. *amphiboloides* Nyl. *Pyrenoc.* p. 33, Hepp *Fl. E.* 951 (*rugulosa*) ad caementum murorum prope Genf (Müller).

1155. **V. ventosa* Mass. *Symm.* p. 99 (sub *Polyblastia*, non Arn. *Exs.* 369).

Saxicola: Engstlenalp (Metzler), Reculet (Müller), in valle Sermenza (Baglietto-Carestia).

(Verrucaria)

- 1156. *V. succedens*** Rehm in Arn. *Exs.* 426, Nyl. in *lit.*
Ad saxa arenacea propter ripas fluminis Sihl (Hegetschweiler jr.).
- d. Stirps *V. rupestris*.
- 1157. *V. lecideoides*** (Mass. *Ric.* p. 157) Krb. *Pg.* p. 367, Nyl. in *Flora* 1881 p. 181, Anzi *Lang.* 366, id. *It. sup.* 364 (f. *minuta*).
Ad saxa calcaria circa Bormio (Anzi) et Genf (Müller).
Var. *sphaerospora* Anzi *Cat.* p. 110, id. *Lang.* 240 ad saxa varia circa Bormio, Trepalle et in monte Splügen (Anzi).
- 1158. *V. polygonia*** Krb. *Pg.* p. 377, (Arn. *Exs.* 367).
Saxicola circa montem Olen (Baglietto-Carestia).
- 1159. *V. nigrescens*** Pers. in Ust *N. Ann.* VIII p. 36, Nyl. *Scand.* p. 271, Schaer. *L. H.* 284, 439, Hepp *Fl. E.* 434, 941 (f. *umbrina*), Anzi *It. sup.* 365, 366.
Frequens ad saxa calcaria rarius ad saxa arenaria, e planitie ad nives aeternas progrediens. Prope Felsberg b. Theobald eam supra saxa Verrucano dicta legit.
- 1160. *V. subnigrescens*** Nyl in *lit.*.
Ad rupes arenaceas prope Meyringen (Schaer. *Hb.* sub *V. glaucina*).
A *V. nigrescente* praesertim sporis longe minoribus (11—16 μ l. 6—7 μ cr.) differt.
V. fusca Pers. in Ach. *L. U.* p. 291, Nyl. *Scand.* 271 et in *Flora* 1873 p. 203 forte supra tegulas lateritias invenienda.
- 1161. *V. apomelaena*** Mass. *Ric.* p. 157 sub *Lithoecia*.
Ad saxa calcaria in monte Salève (Müller).
- 1162. *V. tectorum*** (Mass. *Symm.* p. 91) Krb. *Pg.* p. 368.
Ad saxa duriora prope Tarasp (Jack).

(Verrucaria)

- 1163. V. glaucina** Ach. *Syn.* p. 94, Nyl. in *Flora* 1881 p. 189, *Syn. V. subfuscella* Nyl. *Scand.* p. 271, Hepp *Fl. E.* 426, 427, Anzi *It. sup.* 361, 362.

Ad saxa granitosa, schistosa et calcaria planitiei et alpium; etiam ad tegulas lateritias.

- 1164. *V. polysticta** Borr. in *E. B.* suppl. II t. 2741) Schaer. *En.* p. 216, Nyl. in *Lamy Cat.* p. 159 et in *Flora* 1881 p. 189, Hepp *Fl. E.* 90.

Ad muros prope Zürich (Hepp) et Riva (Baglietto-Carestia).

- 1165. V. glaucelloides** Hepp in Müll.-Arg. *Genev.* p. 74.

Supra murum inumbratum prope Genf (Müller).

- 1166. V. viridula** Ach. *L. U.* p. 675, Nyl. *Scand.* p. 271, Hepp *Fl. E.* 91.

Ad saxa varia et tegulas lateritias: Konstanz (Stizenberger), Zürich (Hepp), Sewen (Hegetschweiler), in alpiis Rhaeticis (Anzi), prope Genf (Müller), in Valsesia (Baglietto-Carestia). Var. *catapyrenioides* Müll.-Arg. in *Flora* 1874 p. 190 prope Monnetier (Müller).

- 1167. V. apatela** (Mass. *Symm.* p. 88) Krb. *Pg.* p. 369, Nyl. in *Hb. Lojka.*

In caemento murorum prope Riva (Baglietto-Carestia).

- 1168. V. macrostoma** Duf. in DC. *Fl. Fr.* 2 p. 319, Nyl. *Pyrenoc.* p. 24, Anzi *It. sup.* 367.

Ad muros eorumque caementum et saxa calcaria: prope Engelberg (Metzler), in monte Pilatus (Sickenberger-Solms), prope Meyringen (Schaerer), Neuchâtel (Chaillet), in Valsesia inferiore (Baglietto-Carestia). Var. *controversa* (Mass. *Mem.* p. 142) ad muros et saxa prope Genf (Müller) et Riva (Baglietto-Carestia).

(Verrucaria)

- 1169. V. tristis** Krmplh. in *Flora* 1857 p. 376, Anzi *Lang.* 241 A, 575.

Ad rupes calcarias praealpium Rhaeticarum (Metzler, Anzi), ad saxa gneissica prope Torembé et in monte Grand Muveran (Müller), Diablerets (Cas. de Candolle), in Valsesia (Baglietto-Carestia). Var. *depauperata* Mass. *Descr.* p. 29, Anzi *Lang.* 241 B ad saxa murosque jurassicos secus lacum Larium (Anzi).

- 1170. V. plumbea** Ach. *L. U.* p. 285, *Nyl. Scand.* p. 271, Schaer. *L. H.* 102, Hepp *Fl. E.* 223, Anzi *It. sup.* 370.

Ad saxa calcaria rarissime granitosa e regione campestri usque ad nives aeternas progrediens. F. *caesia* Anzi *It. sup.* 372 ad saxa marmorea alpium Bormiensem (Anzi). Var. *geographica* Bagl. in *Erb. critt.* 1096 in monte Fenera (Baglietto-Carestia).

- 1171. V. pingucula** Mass. in *Lotos* 1856 p. 80, *Nyl.* in *Flora* 1872 p. 362.

Ad saxa calcaria prope Neuchâtel (Chaillet), Monnetier et Plans de Freynières, in monte Salève (Müller), prope Brienz (Schaerer), Sewen (Hegetschweiler) et Schaffhausen (Schenk).

- 1172. V. minima** Mass. in *lit.* ad Arn., *Nyl. Pyrenoc.* p. 25.

Ad saxa prope Freynières supra Bex (Müller).

- 1173. V. latebrosa** Krb. *S. L. G.* p. 349, *Nyl.* in *Flora* 1877 p. 462, Anzi *Lang.* 488.

In alpibus Rhaeticis (Anzi) et in Valsesia (Baglietto-Carestia).

- 1174. V. margacea** Whlnb. *Lapp.* p. 465, *Nyl. Scand.* p. 272, Hepp *Fl. E.* 95, Anzi *Lang.* 287.

Ad saxa granitosa, gneissica et arenaria locis humidis vel aqua inundatis: in alpibus Rhaeticis

(Hepp, Anzi), Bernensibus (Metzler), Urnensibus (Gisler) et in Monte Rosa (Baglietto-Carestia).
 Var. *papillosa* (Ach. *L. U.* p. 286) Nyl. l. c. ad saxa calcaria circa Como (Anzi) et Genf (Müller).
 Var. *dolosa* Hepp *Fl. E.* 689 ad saxa erratica umbrosa prope Zürich (Hepp), Lugano (Anzi) et in monte Salève (Müller).

1175. **V. aethiobola** (Whlnb. *Lapp.* p. 465), Schaer. *L. H.* 590, Hepp *Fl. E.* 93, 94, Anzi *Lang.* 245.

Ad saxa varia rarius ad calcem: Rodolo in Veltlin (Anzi), Riffersweil (Hegetschweiler), Zürich (Hepp), in alpibus Urnensibus „beim Pfaffensprung“ (Gisler), in sylvis supra Belp (Schaerer), prope Monnetier et in monte Salève (Müller), in Valsesia (Baglietto-Carestia). Var. *litorea* Hepp *Fl. E.* 438 ad ligna propter ripas fluminis Sihl (Hepp).

1176. ***V. pissina** Nyl. in *Flora* 1881 p. 452, Syn. *V. pachyderma* Arn. *Tir.* VII p. 8.

In fontibus pellucidis aqua glaciale alitis: Maderanertal (Hegetschweiler jr).

V. acrotella Ach. *Meth.* p. 123 (?), Nyl. in Lamy *Cat.* p. 160, Anzi *It. sup.* 366 species ulterius examinanda, ad saxa calcaria, arenacea et erratica minime rara.

1177. **V. hydrela** Ach. *Syn.* p. 94, Nyl. in Lamy *Cat.* p. 160, Anzi *It. sup.* 368.

Frequens ad saxa granitica irrorata alpium: Veltlin (Anzi), Leutschachsee, Lochberggletscher et Hüfigletscher in alpibus Urnensibus (Gisler, Hegetschweiler jr.), in monte Grimsel (Schaerer), etiam ad muros calcarios circa Riffersweil (Hegetschweiler), prope Veyrier (Müller), in Valsesia ad rupes humiditas (Baglietto-Carestia). Var. *laevata* (Ach.

(Verrucaria)

- L. U.* p. 284) Nyl. *Pyrenoc.* p. 26 frequens ad saxa granitica in rivulo alpino vallis Malenco (Anzi).
 Var. *murina* Bagl.-Car. *Anacr.* p. 334 ad saxa micaeo-schistosa montis Olen (Baglietto-Carestia).
- 1178. V. cataleptoides** Nyl. *Scand.* p. 272, Hepp *Fl. E.* 433, 942.
 Ad saxa duriora locis umbrosis et irriguis planitiei et montium: Valsassina (Anzi), Zürich (Hepp), Thayngen (Schenk), Amsteg (Gisler), Lauterbrunnen (Metzler), Genf (Müller, Rome), in valle Entremont Valisiae (Schleicher), in montibus la Sella bassa et Fenera Valsesia (Baglietto-Carestia).
- 1179. L. mauroides** (Schaer. *En.* p. 115, Nyl. *Lapp.* p. 169) id. in Lamy *Cat.* p. 160.
 Ad saxa calcaria in valle Gastern (Schaerer) et in monte Salève (Müller), ad saxa schistosa in monte Albis (Hegetschweiler jr.).
- 1180. V. disjuncta** Arn. in *Flora* 1864 p. 599.
 Ad cavernas nivarias in monte Reculet (Müller).
- 1181. V. concinna** Borr. *E. B.* suppl. t. 2623 f. 1, Leight. *Angioc.* p. 50.
 Calcicola prope hospitium in Valdobbia (Baglietto-Carestia) et prope aquas novas Bormienses (Anzi).
- 1182. V. Dufourii** DC. *Fl. Fr.* 2 p. 318, Nyl. *Scand.* p. 275, Schaer. *L. H.* 101, Hepp *Fl. E.* 436, Anzi *It. sup.* 378.
 Ad saxa calcaria frequens, dolomicola in monte Fenera (Baglietto-Carestia).
- 1183. V. Fischeri** Müll.-Arg. in *Flora* 1868 p. 51.
 Calcicola in monte Stockhorn (Müller).
- 1184. V. limitata** Krmplh. *Bay.* p. 241, Nyl. in *Flora* 1881 p. 536, Hepp *Fl. E.* 429, Anzi *It. sup.* 369.
 Ad rupes calcarias: prope Schaffhausen (Schenk), in monte Lägern (Hepp), in alpibus Rhaeticis (Anzi),

Urnensibus (Gisler), prope Engelberg (Metzler) et Genf (Müller).

- 1185. V. rupestris** Schrad. *Spic.* p. 109 t. 2 f. 7, Nyl. *Scand.* p. 275, Syn. *Lecidea immersa* f. *tuberculosa* Schaer. *En.* p. 127, Schaer. *L. H.* 103 p. p., 441, Hepp *Fl. E.* 224. Anzi *Lang.* 365.

Frequens ad saxa calcaria et arenaria.

- 1186. *V. calciseda** DC. *Fl. Fr.* 2 p. 318, Nyl. in Lamy *Cat.* p. 161, Schaer. *L. H.* 104 p. p., 440, Hepp *Fl. E.* 428, Anzi *It. sup.* 373.

Frequens ad saxa praesertim calcaria. F. *caesia* Arn. *Exs.* 311, Anzi *It. sup.* 376 ad saxa calcaria in vallibus Rhaeticis (Anzi). F. *alocyza* (Mass.?) Arn. in *Flora* 1858 p. 537 in monte Petit Salève (Müller). F. *interrupta* Anzi *It. sup.* 374 ad calcem primitivam in valle di Dentro prope Bormio (Anzi).

- 1187. V. Hochstetteri** Fr. *L. E.* p. 435, Nyl. *Pyrenoc.* p. 30, Schaer. *L. H.* 292, Hepp *Fl. E.* 432, Anzi *Lang.* 409.

Ad saxa calcaria, rarissime ad rupes serpentineas e. g. in valle Malenco (Anzi) et micaschistosas e. g. in Alagna (Baglietto-Carestia). Calcicola etiam in monte Pilatus (Hegetschweiler jr.). Var. *hianscens* (Ach. *L. U.* p. 314) Nyl. l. c. p. 31 in montibus calcariis Pilatus (Hepp), Mythen (Harz), Salève (Müller), in valle Vogna (Baglietto-Carestia). Var. *nivalis* (Hepp *Fl. E.* 946 nota) Arn. *Tir.* IV p. 47 in monte Palanca (Baglietto-Carestia).

- 1188. V. muralis** Ach. *Meth.* p. 115, Nyl. *Scand.* p. 275, Anzi *Lang.* 449.

Ad caementum murorum in Veltlin (Anzi), ad muros e saxis porphyricis constructos prope Aranco et Scopa in Valsesia inferiore (Baglietto-Carestia). F. *pu-*

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teana (Hepp *Fl. E.* 437) Nyl. *Pyrenoc.* 32 ad ligna humida prope Zürich (Hepp), in valle di Fraèle (Anzi) et in flumine Arve (Müller). *F. confluens* (Mass. *Geneac.* p. 22) Krb. *Pg.* p. 378 in monte Salève (Müller) et ad saxa irrorata Valsesiae (Baglietto-Carestia).

1189. V. anceps Krmplh., Arn. in *Flora* 1858 p. 588.

Prope Alagna et Riva (Baglietto-Carestia).

1190. V. purpurascens Hffm. *Pl. Lich.* I p. 74 t. 15 f. 1 et t. 19 f. 3, Nyl. *Pyrenoc.* p. 31, Hepp *Fl. E.* 431, Anzi *Lang.* 246.

Ad saxa calcaria alpium, montis Jurae et planitiei.

1191. V. integra Nyl. *Scand.* p. 276, Syn. *Lecidea carphinea* Ach. *Syn.* p. 23.

Ad saxa humida prope Baar (Hegetschweiler jr.).

F. dolomitica (Mass. *Symm.* p. 80) Nyl. in *Hb. Lojka* in dolomite montis Fenera (Baglietto-Carestia).

Cum *V. integra* monente Nylander insuper jungendae *V. mastoidea* (Mass. l. c. p. 82) Krb. *Pg.* p. 360 in montibus Salève et Reculet (Müller), in valle Vogna (Baglietto-Carestia), *V. amylacea* (Hepp) Krmplh. *Bay.* p. 238 in monte Salève (Müller), inter Riva et Alagna (Baglietto-Carestia) et *V. saphyrophila* (Mass. l. c. p. 79) Krb. l. c. in monte Salève (Müller).

1192. *V. cinereorufa Schaer. *Spic.* p. 338, Nyl. in *lit.*

In monte Salève (Müller).

1193. *V. integrella Nyl. in *Flora* 1881 p. 451, Anzi *Lang.* 364 (sporis minoribus).

In alpe dolomitica Campsciano supra Puschlav (Anzi) et ad rupes quartzosas montis Karrhorn (Baglietto-Carestia).

1194. *V. subtilis* Müll.-Arg. in *Flora* 1874 p. 536.
Ad saxa dolomitica vallis de Bagnes prope Monvoisin
(Müller).
1195. *V. Veronensis* Mass. *Ric.* p. 175.
In montibus Salève et Petit Salève (Müller).
1196. *V. myriocarpa* Hepp *Fl. E.* 430, Nyl. in *Hb. Lojka*,
Syn. *V. Patientii* Mass. *Misc.* p. 29.
Ad saxa calcaria montium Lägern prope Baden (Hepp),
Pilatus (Hegetschweiler jr.), Weissenstein (Metzler),
Salève (Müller) et prope Engelberg. *F. pusilla*
(Arn. in *Flora* 1864 p. 599) in monte Salève
(Müller).
1197. *V. Hegetschweileri* Krb. in *Hb. Hegetschw.*, Nyl. in *Flora*
1881 p. 189.
Ad Fagorum radices prope Baar et Aeugst (Heget-
schweiler jr.).
1198. *V. velutina* (Bernh. in *Röm. Arch.* IV p. 11) Flk. *D. L.*
129, Krb. *S. L. G.* p. 351, Nyl. *Scand.* p. 277.
Ad terram prope Genf (Müller) et supra saxa tenui
terrae strato obtecta prope Gossau (Hegetschwei-
ler jr.).
- e. Stirps *V. pyrenophorae*.
1199. *V. pyrenophora* Ach. *L. U.* p. 285, Nyl. *Scand.* p. 273,
Hepp *Fl. E.* 441, Anzi *Lang.* 238, *Erb. critt.* 1398.
Ad saxa varia alpium frequens, in summo monte Sa-
lève rarior (Müller). Var. *acrustacea* Arn. *Tir.*
XVIII p. 23 in Monte Rosa et in monte Taglia-
ferro (Baglietto-Carestia).
1200. * *V. cotacea* Stenh. in *Fr. L. S.* p. 416, Nyl. *Prodr.*
p. 182.
Ad calcem alpinam (teste Nyl. l. c.).

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- 1201. V. Antonelliana** (Bagl.-Car. *Anacr.* p. 326).
In Monte Rosa (Antonelli).
- 1202. V. decipiens** (Hepp *Fl. E.* 699) Nyl. in Lojka *Hung.* 109.
Calccicola in montibus Salève (Müller) et Spluga (Anzi).
- 1203. V. cataractarum** (Hepp *Fl. E.* 442) Leight. *Great Brit.*
Ed. III p. 459.
Ad calcem et lapides arenarios prope Zürich (Hepp)
et Gossau (Hegetschweiler jr.).
- 1204. V. Sprucei** (Leight. *Angioc.* t. 23 f. 4—6, Nyl. *Scand.*
p. 273) id. in *Flora* 1881 p. 536, Hepp *Fl. E.* 97—99,
Anzi *Lang.* 286 p. p., 451, 492.
Ad saxa varia planitie, montium et alpium.
- 1205. V. Gisleri** (Müll.-Arg. in *Flora* 1877 p. 478).
Ad saxa calcaria montis Rossstock (Gisler).
- 1206. V. Zwackhii** (Hepp *Fl. E.* 443) Nyl. in Stzb. *Hyperb.*
p. 53.
Ad calcem et lapides arenarios: Zürich (Hepp), Rif-
fersweil et Gossau (Hegetschweiler jr.), Genf (Müller).
- 1207. V. rugulosa** Nyl. (*Pyrenoc.* p. 28) in *Flora* 1881 p. 536,
Hepp *Fl. E.* 446.
Ad saxa calcaria: prope Sewen et in radice montis
Rigi (Hegetschweiler), prope Genf et Torembé
(Müller), prope Kandersteg et in monte Gemmi
(Metzler), in monte Olen aequae in alpe la Bosa
Valsesia (Baglietto-Carestia).
- 1208. V. Tarvesedis** (Anzi *Cat.* p. 105) id. *Lang.* 237.
Ad saxa micaceo-schistosa humida in monte Splügen
(Anzi), prope Riva et Alagna necnon in Monte
Rosa (Baglietto-Carestia).
- 1209. V. dominans** (Arn. in *Flora* 1869 p. 259).
Ad saxa prope Engelberg, in Wengernalp (Metzler)
et in monte Salève (Müller).

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1210. *V. incavata* Nyl. in Mudd *Man.* p. 295 non *Scand.* p. 273, Syn. *Sagedia Lariana* (Mass. *Framm.* p. 16) *Anzi Cat.* p. 107 et *Anal.* p. 21.
Ad rupes humidias calcarias et dolomiticas prope Como et Varese (Anzi).
1211. *V. aeneovinosa* Anzi *Symb.* p. 25, Nyl. in Lojka *Hung.* 110, Anzi *Lang.* 243 A, 534.
Ad saxa granitica et micacea humida vel aqua adspersa in montibus et alpihus vallis Tellinae (Anzi), in Erstfelderthal (Hegetschweiler jr.) et in Vallesia (Baglietto-Carestia).
1212. *V. Ungerii* Fw. in Zw. *Exs.* 28, Nyl. *Pyrenoc.* p. 28.
Ad saxa marmorea in alpe Rhaetica di Starlegia (Anzi), in montibus Gemmi, Schienige Platte (Metzler), Pic Ramond (Bader), Salève, Jura et ad saxa mica-schistosa in Torembé (Müller); calcicola prope hospitium in Valdobbia (Baglietto-Carestia).
1213. *V. Schleicheri* (Müll.-Arg. in *Flora* 1870 p. 167).
Ad saxa calcario-schistosa montis Grand Muveran supra Bex (Müller).
1214. *V. impressa* (Müll.-Arg. in *Flora* 1872 p. 504).
Ad saxa calcaria montis Salève, locis siccis (Müller).
1215. *V. perexigua* (Müll.-Arg. in *Flora* 1872 p. 504).
Ad saxa calcaria in pede montis Salève (Müller).
1216. *V. hymenelioides* (Krb. *Pg.* p. 351).
Ad saxa in monte Reculet (Müller).
1217. *V. anisospora* (Müll.-Arg. in *Flora* 1874 p. 536).
Ad saxa gneissica loco Torembé (Müller).
1218. *V. Auruntii* (Mass. *Symm.* p. 77) Nyl. *Arm.* p. 404.
Saxicola prope Rosenlauri (Metzler) et in monte Dôle prope Genf (Müller). *F. emergens* Müll.-Arg. ad

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saxa umbrosa calcaria montis Salève unacum f. *denudata* ejusdem (*Flora* 1867 p. 437). F. *rimulosa* Müll.-Arg. *Hb.* ad ripas fluminis Arve (Rome).

1219. V. umbrosa (Mass. *Sert.* in *Lotos* 1856 p. 81).

Ad saxa calcaria montis Jura (Müller).

1220. V. pseudolivacea Nyl. in Lojka *Hung.* 112, Hepp *Fl. E.* 226, Anzi *It. sup.* 408.

Ad saxa calcaria erratica juxta lacum Larium (Anzi), prope Zürich (Hepp), inter Bonatchose et Fionnay necnon prope Freynières (Müller).

e. Stirps *V. intercedentis*.

1221. V. scotinospora Nyl. *Scand.* p. 270, Rbh. *L. E.* 962.

Ad saxa in subalpinis prope Riva (Carestia).

1222. V. theleodes Smmrf. *Lapp.* p. 140, Nyl. *Scand.* p. 292, Syn. *V. verrucoso-areolata* (Schaer.) Nyl. l. c. p. 270, Schaer. *L. H.* 538, *Schw. Krypt.* 476, Krb. *L. S. G.* 321.

Ad saxa arenaria, calcaria et micaschistosa regionis subalpinae: Rigi (Hegetschweiler), Gurnigel (Schaerer), Salève (Müller). Var. *inundata* Nyl. in *Cromb. Brit.* p. 110 calcicola in valle Vogna (Baglietto-Carestia).

1223. V. subpyrenophora Leight. *Great Brit.* Ed. II p. 454, Ed. III p. 486, Fr. fl. *Polybl.* p. 16.

Ad saxa in monte Rigi (Hegetschweiler).

1224. V. gelatinosa Ach. *L. U.* p. 283, Nyl. *Pyrenoc.* p. 21, (*Endocarpon* Müll.-Arg. in *Flora* 1868 p. 51).

Supra muscos ad rupes et muros umbrosos et humidos: in Valisia (Schleicher), prope Amsoldingen et in monte Grand Muveran (Müller).

- 1225. *V. dictyospora*** Stzb., Syn. *Amphoridium cinereum* Mass. in *Lotos* 1856 p. 80.

Ad rupes calcarias prope Schaffhausen (Schenk), in montibus Sassalbo supra Poschiavo (Anzi) et Récullet prope Genf (Müller).

- 1226. *V. plicata*** (Mass. in *Lotos* 1856 p. 80) Nyl. *Pyrenoc.* p. 34.

Ad saxa metamorphica talcosa circa Alagna (Baglietto-Carestia).

- 1227V. *V. albida*** (Arn. in *Flora* 1858 p. 251 et 1869 p. 260) Nyl. in *Lojka Hung.* 148.

In monte Olen ad lapidem erraticum (Baglietto-Carestia). Var. *alpina* (Metzl. in Arn. *Tir.* I p. 8) Arn. in *Flora* 1870 p. 17 ad saxa prope moles glaciales Rosenloui (Metzler).

- 1228. *V. singularis*** Krmplh. *Bay.* p. 291.

Ad cavernas nivarias in monte Récullet (Müller).

- 1229. *V. forana*** (Anzi *Cat.* p. 105 non Arn. *Exs.* 201) Nyl. in *lit.*

Ad rupes marmoreas in valle Malenco (Anzi), ad saxa quartzosa in monte Karrhorn (Baglietto-Carestia) et supra Gampeln (Gisler). Var. *fuscoargillacea* (Anzi *Symb.* p. 26), id. *Lang.* 368 ad saxa calcaria supra terminum arborum in Rhaetica valle Pisella (Anzi), in monte Bernina (Metzler), in Maderanerthal (Gisler), à la grande Vire de la Dent de Morcle (Cas. de Candolle) et in Valsesia (Baglietto-Carestia). Var. *cinerea* Müll.-Arg. in *Flora* 1874 p. 537 in Maderanerthal (Gisler), ad Torembé et prope Hôtel Monvoisin (Müller).

- 1230. *V. amota*** (Arn. in *Flora* 1869 p. 264 et 1870 p. 8).

Ad saxa in monte Salève (Müller).

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- 1231. *V. evanescens*** Arn. *Tir.* VI p. 21 sub *Polyblastia*.
Rarissima ad muscos in monte Salève (Müller).
- 1232. *V. terrestris*** (Fr. fil. *Arct.* p. 265), Anzi *Lang.* 236.
Ad rupes micaceas humiditas in sylvis Coniferarum Bormiensibus (Anzi).
- 1233. *V. turicensis*** Wint. in Arn. *Exs.* 698 sub *Sporodictyo*.
Ad saxa arenacea humida prope Küssnacht (Winter).
- 1234. *V. intercedens*** Nyl. *Scand.* p. 276, Hepp *Fl. E.* 445.
Ad saxa arenaria, schistosa necnon calcaria frequens: prope Konstanz (Stizenberger), in valle Poschiavo et circa Bormio (Anzi), prope Zürich et in monte Pilatus (Hepp), prope Zug (Hegetschweiler jr.), ad Lauterbrunnen et Kandersteg (Metzler), Schwarzwasser (Schaerer), in valle Vogna (Baglietto-Carestia) et prope Mornex (Müller).
- 1235. *V. acrocordiaeformis*** (Anzi *Cat.* p. 105) Nyl. in Lojka *Hung.* 147.
Rara ad rupes calcarias in valle Vièra prope Livigno (Anzi).
- 1236. *V. pallescens*** (Anzi *Symb.* p. 243) Nyl. in Arn. *Tir.* X p. 12, Anzi *Lang.* 243 B.
Ad saxa granitica umbrosa in alpe di Bordio (Anzi).
Var. *Funkii* (Sprng.) in rivulis alpium Rhaeticarum (Anzi). Var. *aethioboloides* Nyl. *Scand.* p. 276 in monte Salève (Müller). Var. *cupularis* (Mass. *Ric.* p. 148) ad rupes calcarias supra terminum superiorem Mughì in monte Braulio (Anzi), St. Moritz, Bernina, Engelberg (Metzler), in Valsesia (Baglietto-Carestia).
- 1237. *V. sepulta*** (Mass. in *Lotos* 1856 p. 81) Rich. *Deux-Sèvres* p. 48.

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Ad saxa tenui terra tecta circa Engelberg (Metzler) et supra Veyrier prope Genf (Müller).

1238. *V. gneissiac* Müll.-Arg. in *Flora* 1874 p. 538.

Prope Torembé (Müller).

1239. *V. fertilis* Nyl. in *Flora* 1881 p. 7.

Ad saxa arenacea prope Baar (Hegetschweiler jr.).

1240. *V. flavicans* Müll.-Arg. in *Flora* 1874 p. 539.

Ad saxa gneissiac prope Torembé (Müller).

1241. *V. Sendtneri* (Krmplh. in *Flora* 1855 p. 67) Nyl. *Pyrenoc.* p. 33, Hepp *Fl. E.* 447, Anzi *Lang.* 220.

Supra muscos in regione subalpina usque ad terminum nivalem: circa Bormio (Anzi), Calandaalp (Theobald), in montibus Pilatus (Hepp), Grand Muveran supra Bex et Reculet (Müller), prope hospitium in Valdobbia (Baglietto-Carestia).

1242. *V. allobata* Stzb.

Supra infimos truncos Fraxinorum vetustarum prope Ötweil (Hegetschweiler jr.).

Sporae parenchymaticae incolores 26—33 μ l., 11—25 μ cr.

f. *Stirps V. epigaeae.*

1243. *V. smaragdula* (Krb. *Pg.* p. 382) Nyl. in *lit.*

Ad terram prope Knonau (Hegetschweiler jr.).

1244. *V. epigaea* Ach. *Meth.* p. 123, Nyl. *Scand.* p. 276, Schaer. *L. H.* 106, Hepp *Fl. E.* 439.

Supra terram argillaceam in viis cavis et sylvis circa Bormio, Como (Anzi), Zürich (Hepp), Bern (Schaeffer), in Valsesia (Baglietto-Carestia) et prope Genf (Müller).

g. *Thelenella* Nyl.

1245. *V. modesta* Nyl. in *Flora* 1873 p. 74.

Ad Acera in monte Salève (Müller) et ad truncos Lauri prope lacum Verbanum (Anzi).

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1246. *V. leucothelia* Nyl. *Lapp.* p. 170, Anzi *Lang.* 522.

Mixta cum *Cladonia deformi* in alpibus Bormiensibus tam granitosis quam calcariis (Anzi) et in monte Speer (Hegetschweiler jr.).

1247. *V. sphinctrinoides* Nyl. *Pyrenoc.* p. 35 et *Scand.* p. 277.

Supra muscos in Erstfelderthal (Hegetschweiler jr.) et in monte Plaida in Valdobbia (Baglietto-Carestia) unacum var. *latebrosa* Bagl.-Car. *Anacr.* p. 323.

1248. *V. arenaria* (Hampe in Krb. *Pg.* p. 309) Nyl. in Wainio *Tavast.* p. 120, Syn. *V. gibbosula* Nyl. in *Flora* 1874 p. 15.

Ad terram in latere septentrionali alpibus le Selle prope Riva (Baglietto-Carestia).

h. *Porinula* Nyl. in *Flora* 1881 p. 453.

1249. *V. sychnogonoides* Nitschke in Rbh. *L. E.* 574 sub *Geisleria*.

Ad turfae frustula circa Riffersweil (Hegetschweiler jr.).

1250. *V. tigurina* Stzb., Syn. *Segestrella spectabilis* Hgtschw. in *lit.* non *Sagedia spect.* Hepp in Müll.-Arg. *Genev.* p. 78.

Ad infimos *Abietis pectinatae* truncos prope Gossau etiam ad Fagos juniores prope Steinhausen ditionis Zug (Hegetschweiler jr.).

Thallus indeterminatus tenuissimus leprosus caesio-cinereus vel nullus. Apothecia hemisphaerica diam. 0,3—0,5 mm. rufa, basi thallo subvelata, superne nigro-umbilicata, tandem late ostiolata, intus aequae eorum pars immersa alba. Asci paraphysibus liberis capillaribus circumdatae, lanceolato-fusiformes 8-spori. Sporae clavi- vel fusiformes (3-) 7-septatae, 48—70 μ l., 7—10 μ cr., incolores. G. h. iodo immutata, asci leviter lutescentes.

1251. *V. olivacea* Pers. in Ust. *N. Ann.* I p. 28, Borr. *E. B.*

suppl. t. 2597, Nyl. *Nov.-Granat.* Ed. II p. 115 et in Lamy *Cat.* p. 162.

Ad Fagorum radices prope Riffersweil (Hegetschweiler jr.).

1252. *V. chlorotica* (Ach. *L. U.* p. 283) Nyl. *Pyrenoc.* p. 36, Schaer. *L. H.* 523.

Saxicola prope Riffersweil et Hausen (Hegetschweiler jr.), prope Belp (Schaerer), in valle di Bodengo supra Gordona (Anzi — *Sagedia macularis* var. *suaevolens*), in praeruptis calcariis umbrosis montis Salève (Müller — *Sagedia atrata*). Terrestris prope Aeugst (Hegetschweiler jr.). Corticicola (*V. carpinea* Ach. *Syn.* p. 88) ad Ilicem prope Ürzlikon et ad Fagorum radices prope Riffersweil (Hegetschweiler jr.). Var. *macularis* (Wallr. *Flor. Germ.* III p. 301), Schaer. *L. H.* 524, Anzi *Lang.* 244 ad saxa locis umbrosis.

Jam diu Nylander examinato *L. chloroticae* typo Acharii unico silesiaco stabilitavit eam omni respectu identicam cum *V. carpinea* Pers., ita ut *carpinea* sit modo corticicola *V. chlorotica*.

1253. *V. aenea* Wallr. *Flor. Germ.* III p. 299, Nyl. in *lit.*, Hepp *Fl. E.* 459, Schw. *Krypt.* 574, Rbh. *L. E.* 628.

Ad Fraxinorum et Fagorum cortices prope Zürich (Hepp) et Genf (Müller), ad *Sorbum Aucupariam* et *Abietem pectinatam* circa Riva (Baglietto-Carestia) et prope Baar (Hegetschweiler jr.).

Sagedia abietina Krb. *S. L. G.* p. 365 ab hac non distat.

1254. *V. athallina* Bagl.-Car. *Anacr.* p. 329 sub *Sagedia*.

Saxicola in Valdobbia (Baglietto-Carestia).

1255. *V. affinis* (Mass. *Mem.* p. 138) Leight. *Great Brit.* Ed. III. p. 472, Nyl. in *lit.*, Hepp *Fl. E.* 458, Anzi *Lang.* 222, 438, Schw. *Krypt.* 673.

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- Ad cortices Populorum, Acerum, Juglandum circa Zürich (Hepp), Como, in vallibus Malenco et Veltlin (Anzi), circa Varallo (Baglietto-Carestia), Amsteg (Hegetschweiler) et prope Genf (Müller).
- 1256. V. declivum** (Bagl.-Car. in *Comm. critt. it.* I p. 445) Nyl. in Stzb. *Hyperb.* p. 54.
Supra terram nudam montis Tagliaferro (Baglietto-Carestia).
- 1257. V. persicina** (Krb. *S. L. G.* p. 364) Nyl. in *Hb. Lojka, Anzi Lang.* 452, 491.
Ad saxa dolomitica et calcaria montium humiliorum: circa Como (Anzi), in montibus Weissenstein (Metzler) et Salève (Müller), in Aranco prope Borgosesia (Baglietto-Carestia).
A *V. persicina* vix rite distinguendae: *V. Körberi* Fw. in Krb. *S. L. G.* p. 363 var. *fusconigra* Bagl.-Car. *Anacr.* p. 328 graniticola prope Mollia (Baglietto-Carestia) et *V. calciseda* (Bagl.-Car. *Anacr.* p. 328) ad calcem in Valsesia (iid.).
- 1258. V. byssophila** (Krb. *Pg.* p. 355) Nyl. in *Lojka Hung.* 150. Syn. *V. chlorotica* v. *trachona* (Tayl.) Leight.
Calcolica prope Monnetier (Müller) et Hausen ditionis Zürich (Hegetschweiler jr.).
- 1259. V. netrospora** (Naeg. in Hepp *Fl. E.* 461) Nyl. in *lit.*, Hepp *Fl. E.* 461, Rbh. *L. E.* 599.
Ad corticem et radices denudatas Juglandum, Fagorum, Carpinorum prope Zürich (Hepp), Riffersweil (Hegetschweiler jr.), Stachelberg (Metzler) et Veyrier (Müller).
Forma pycnidifera datur in Hepp *Fl. E.* 462 et in Anzi *Lang.* 221. Adest supra corticem *Carpini Betulae* et *Juglandis regiae* prope Varese (Anzi) et ad Juglandes prope Zürich (Hepp) et Châtelaine (Rome).
- 1260. V. Thuretii** (Hepp *Fl. E.* 48) Nyl. in *lit.*

(Verrucaria)

Ad Pyros annosas prope Zürich (Hepp) et Riffersweil (Hegetschweiler jr.), ad Populos circa lacum Larium (Anzi).

- 1261. V. Rhododendri** (Bagl.-Car. in *Comm. critt. it.* I p. 466 sub *Sagedia*), *Erb. critt.* 1240, Rbh. *L. E.* 664.

Ad corticem *Rhododendri ferruginei* circa Riva (Baglietto-Carestia).

- 1262. V. illinita** Nyl. (*Gall. mer. Pyr.* p. 10) *Lapp.* p. 189, Hepp *Fl. E.* 464, 708, *Krypt. Bad.* 663, Rbh. *L. E.* 623.

Supra muscos et ad Fagorum truncos prope Konstanz (Leiner), Zürich (Hepp), Zug, ubi ad lapides quoque transit (Hegetschweiler jr.), circa Bormio (Anzi), Chur (Metzler), Bern (Schaerer), in monte Palanca (Baglietto-Carestia).

- 1263. V. alpina** (Bagl.-Car. in *Comm. critt. it.* II p. 84).

Terricola in monte Palanca (Baglietto-Carestia).

- 1264. V. lectissima** (Fr. *L. E.* p. 430) Nyl. *Prodr.* p. 187, Hepp *Fl. E.* 696, Anzi *It. sup.* 394.

Ad saxa duriora praesertim granitica e planitie in alpes ascendens: Como (Garovaglio), Veltlin (Anzi), Bürglistock prope Hausen (Hegetschweiler jr.), circa montem Gotthard (Hegetschweiler, Hepp), circa Altorf (Gisler), in valle Oberhasli (Metzler), in Valsesia (Baglietto-Carestia).

- 1265. V. leptalea** (DR.-Mnt. *Alg.* p. 268) Nyl. in *lit.*

Ad corticem Fagi prope Riffersweil et *Abietis pectinatae* annosae prope Gossau (Hegetschweiler jr.).

- 1266. V. sphaeroides** Wallr. *Flor. Germ.* III p. 300, Hepp *Fl. E.* 959.

Ad infimos Alnorum truncos prope Zürich (Hepp) et ad *Rhamni Frangulae* corticem prope Riffersweil (Hegetschweiler jr.).

„Forsan potissime *Sphaeria*“ Nyl. in *lit.*

(Verrucaria)

i. Stirps *V. muscicolae*.

1267. *V. muscicola* Ach. *Hb.*, *Nyl. Scand.* p. 279 var. *octospora* *Nyl.* in *Ohl. Preuss.* p. 43.

Ad arbores pomiferas et ad muscos prope Riffersweil (Hegetschweiler jr.), in monte Salève (Müller), circa Riva (Baglietto-Carestia).

1268. *V. Naegelii* (Hepp *Fl. E.* 469) *Nyl. Pyrenoc.* p. 40, *Arn. Exs.* 725.

Ad corticem Pinorum prope Zürich (Hepp, Winter) et Riffersweil (Hegetschweiler jr.).

k. Stirps *V. nitidae*.

1269. *V. nitida* Schrad. *Journ.* 1801, I p. 79, *Nyl. Scand.* p. 279, *Schaer. L. H.* 111, *Hepp Fl. E.* 467, *Anzi It. sup.* 391, *Schw. Krypt.* 173, *Erb. critt.* 523.

Ad corticem Fagi. Var. *nitidella* (*Flk. D. L.* 10) *Nyl.* l. c., *Hepp Fl. E.* 468, 958, *Anzi It. sup.* 392, *Schw. Krypt.* 271, *Rbh. L. E.* 86 mixtim obveniens cum typo, rarissime ad Pinos prope Liestal (Hepp).

1270. *V. glabrata* Ach. *Syn.* p. 91, *Nyl. Pyrenoc.* p. 47, *Schaer. L. H.* 110. *Hepp Fl. E.* 227, *Anzi It. sup.* 389.

Ad Carpinos, Fagos, Castaneas, Tiliac.

1271. **V. Coryli* (*Mass. Ric.* p. 164) *Nyl. Pyrenoc.* p. 47, *Hepp Fl. E.* 465, *Anzi It. sup.* 390.

Ad Corylum: Veltlin (Anzi), Zürich, Liestal (Hepp), circa Riva (Baglietto-Carestia), Genf (Müller).

1272. *V. farrea* Ach. *Meth.* p. 115, *Nyl. Scand.* p. 279, *Schaer. L. H.* 105, *Hepp Fl. E.* 957.

Ad Quercus prope Zürich (Hepp), Mettmenstetten (Hegetschweiler jr.), Frienisberg (Schaerer) et Genf (Müller).

(Verrucaria)

V. circumfusa Nyl. *Pyrenoc.* p. 48, Anzi *It. sup.* 393 ad *Ornum europaeam* in Tyrolia meridionali frequens, Helvetiae deesse videtur.

1. Stirps *V. gemmatae*.

1273. *V. macrocarpa* Hampe in *lit.*, Krb. *Pg.* p. 347.

Ad radices denudatas *Populi italicae* secus litora fluminis Arve (Müller).

1274. *V. gemmata* Ach. *L. U.* p. 278, Nyl. *Scand.* p. 280, Hepp *Fl. E.* 104, Anzi *It. sup.* 386.

Ad Quercus, Populos, Salices, Castaneas prope Zürich (Hepp), Como (Anzi), Genf (Müller). Var. *glauca* (Krb. *S. L. G.* p. 357) Hepp *Fl. E.* 448 rara ad Fagos prope Zürich (Hepp) et Mettmenstetten (Hegetschweiler jr.). Var. *leucoplaca* Wallr. *Flor. Germ.* III p. 299 non Krb. *S. L. G.* p. 361 ad *Acer campestre* prope Aïre (Rome).

1275. **V. conoidea* Fr. *L. E.* p. 432, Nyl. *Scand.* p. 280, Anzi *Lang.* 239.

Ad saxa calcaria prope Como (Anzi) et locis cryptis in monte Salève (Müller). Gneissicola in monte Plaida (Baglietto-Carestia). Var. *Nylanderi* (Hepp *Fl. E.* 440) Nyl. *Pyrenoc.* p. 54 ad saxa erratica prope Zürich (Hepp) et ad ripas fluminis Arve prope Genf (Müller). Var. *montana* (Hepp in *lit.*, Krb. *Pg.* p. 351), Anzi *Lang.* 576 ad saxa calcaria in alpibus Rhaeticis (Anzi) et montis Salève (Müller). Var. *minutula* (Krb. *Pg.* p. 351) ad saxa schistosa prope Bern (Kemmler).

V. biformis (Borr. *E. Bot.* suppl. t. 2617) Nyl. *Pyrenoc.* p. 54 in Leight. *Great Brit.* pro Helvetia indicatur.

1276. *V. spectabilis* (Hepp in Müll.-Arg. *Genev.* p. 78).

Ad saxa calcaria humida montis Salève (Müller).

(Verrucaria)

- 1277. V. glacialis** Bagl.-Car. *Anacr.* p. 328 sub *Acrocordia*.
Ad saxa marmorea in Monte Rosa (Baglietto-Carestia).

m. Stirps *V. epidermidis*.

- 1278. V. Cerasi** Schrad. *Samml.* 174, Ach. *Syn.* p. 89, Nyl. in *Flora* 1873 p. 74, *Syn. Arthonia griseoalba* Anzi *Cat.* p. 94, Hepp *Fl. E.* 457, Anzi *Lang.* 209, 520.

Ad corticem Cerasi, *Pruni domesticae* et *Betulae*.

- 1279. V. aeruginella** Nyl. (*Lapp.* p. 173) in *Flora* 1872 p. 365, Anzi *Lang.* 519.

Ad corticem laevigatum *Pini Cembrae* in sylvis Bormiensibus (Anzi).

- 1280. V. fallax** Nyl. in (*Bot. Not.* 1852 p. 178) Lamy *Cat.* p. 165, Hepp *Fl. E.* 451, 452.

Ad cortices arborum juniorum praesertim *Populorum*.

Var. *Aucupariae* Bagl. in *Erb. critt.* 1241 ad corticem *Sorbi Aucupariae* prope Riva (Baglietto).

- 1281. * V. cinereopruinosa** Schaer. *En.* p. 221, Nyl. in Ohl. *Preuss.* p. 42, Hepp *Fl. E.* 105—107, 455, Rbh. *L. E.* 630.

Ad variarum arborum frondosarum et fruticum corticem.

- 1282. V. epidermidis** Ach. (*Prodr.* p. 16) *Syn.* p. 89, Nyl. *Scand.* p. 280, Schaer. *L. H.* 107 p. p., Hepp *Fl. E.* 450.

Ad corticem *Betulae albae*. Var. *analepta* (Ach. *Meth.* p. 119), Hepp *Fl. E.* 453, 454, Anzi *It. sup.* 385 ad cortices glabros variarum arborum.

- 1283. V. antecellens** Nyl. in *Flora* 1866 p. 86 et 1873 p. 74, Anzi *Lang.* 472.

Ad corticem laevigatum *Pini Cembrae* in sylvis Bormiensibus (Anzi).

(Verrucaria)

- 1284. V. grisea** Schleich., Schaer *En.* p. 220, Nyl. in Wainio *Tavast.* p. 121.
Ad corticem *Betulae albae*.
- 1285. V. punctiformis** Ach. *Syn.* p. 87, Nyl. in Lamy *Cat.* p. 166.
Ad corticem arborum glabrum. Var. *Tremulae* Ach. *L. U.* p. 277, Nyl. *Scand.* p. 281 ad corticem *Populi tremulae*. Var. *atomaria* (Ach. *Prodr.* p. 16) Schaer. *En.* p. 220, Hepp *Fl. E.* 456 (*alnicola* Nyl. in Norr. *H. L. F.* 391) ad Fraxinos et Alnos. Var. *Rhododendri* Arn. *Tir.* VIII p. 26 ad Rhododendra regionis alpinae in Valsesia (Baglietto-Carestia).
- 1286. V. ilicicola** Nyl. in *Flora* 1872 p. 363, Arn. *Exs.* 727.
Ad corticem Ilicis in sylvis prope Riffersweil (Hegetschweiler jr.).
Arthopyrenia punctiformis v. *ilicicola* Bagl.-Car. *Anacr.* p. 240, mihi ignota, forte eadem sit planta.
- 1287. V. pyrenastrella** Nyl. (*Pyrenoc.* p. 59) in *Flora* 1877 p. 231, Anzi *Lang.* 207, 469, 557 (*verrucarioides*), Rbh. *L. E.* 726.
Haud rara ad truncos ramosque *Pini Cembrae* in sylvis Bormiensibus (Anzi) et in Valsesia (Baglietto-Carestia).
- 1288. V. paracapnodes** Stzb.
Ad corticem Alnorum juniorum prope Gossau (Hegetschweiler jr.).
Thallus effusus leprosus fusconigricans, perithecia minima nigra opaca, sporae fusiformes rectae, rarius curvulae obscure 3—7-septatae 13—30 μ l., 4 μ cr. in ascis lanceolatis, paraphyses nullae.
- 1289. V. rhypona** Ach. *L. U.* p. 282, Nyl. *Scand.* p. 281, Anzi *Lang.* 471.

(Verrucaria)

- Ad corticem *Cytisi Laburni* prope Malagny (Müller),
Betulae albae et *Crataegi* circa Riva (Baglietto-
Carestia) et Bormio (Anzi).
- 1290. V. rhypontella** Nyl. in *Flora* 1867 p. 374, Hepp
Fl. E. 449.
Ad *Quercus Pinosque* juniores prope Zürich (Hepp)
et Genf (Müller), ad *Cytisum alpinum*, *Alnum*
viridem et *Rhododendron ferrugineum* in Valsesia
(Baglietto-Carestia).
- 1291. V. analeptella** Nyl. in *Flora* 1872 p. 363, Anzi *It.*
sup. 395.
Ad arborum frondosarum cortices in Veltlin (Anzi).
- 1292. V. lapponina** Anzi *Lang.* 347 sub *Arthopyrenia*, Krb.
L. S. G. 412.
Ad *Salicem lapponinam* prope Bormio (Anzi), Or-
sières in Valisia (Müller) et Riva (Baglietto-Ca-
restia).
- 1293. V. subconfluens** (Müll.-Arg. in *Flora* 1872 p. 505).
Ad ramos minores *Pini Cembrae* supra Champey et
ad truncos abietinos in monte Salève (Müller).
- 1294. V. subalbicans** (Bagl.-Car. *Anacr.* p. 341).
Ad corticem *Abietis pectinatae* in sylvis Valsesiae (Bag-
lietto-Carestia).
- 1295. V. Ariae** Müll.-Arg. in *Flora* 1872 p. 540 sub *Sagedia*.
Ad ramos juniores *Sorbi Ariae* ad „Grande Gorge“
montis Salève (Müller).
- 1296. V. Laburni** Leight. *Great Brit.* Ed. III p. 465.
Ad corticem *Cytisi Laburni* in monte Salève (Müller)
et prope Riffersweil (Hegetschweiler jr.).
- 1297. V. inconspicua** (Lahm in Krb. *Pg.* p. 387) Nyl. in *Flora*
1865 p. 213 et in *Hb. Lojka*.
Calcicola locis absconditis in monte Salève (Müller).

(Verrucaria)

- 1298. V. discreta** (Metzl. *Hb.*) Nyl. in *Flora* 1879 p. 222.
Ad rupes calcarias prope Engelberg (Metzler).
- 1299. V. saxicola** (Mass. *Framm.* p. 24) Nyl. in *lit.*, Hepp *Fl. E.* 444.
Ad saxa calcaria montis Lägern et prope Liestal (Hepp), Sewen (Hegetschweiler), in montibus Palanca (Baglietto-Carestia) et Pilatus (Schaerer).
- 1300. V. Aspiciillae** (Lahm in *Krb. Pg.* p. 388).
Parasita supra *Lecanoram calcaream* in monte Salève (Müller).
- 1301. V. Schaereri** (Mass. *Lecid. Hook.* p. 8) Nyl. in *Flora* 1870 p. 38.
Supra thallum *Lecideae Hookeri*.
- 1302. V. Guinetii** Müll.-Arg. *Hb.* sub *Pharcidia*.
Supra thallum *Lecanorae elegantis* in monte Reculet (Guinet).
- 1303. V. constrictella** (Müll.-Arg. in *Flora* 1874 p. 350).
Supra thallum *Lecanorae bracteatae* in Valisia (Müller).
- 1304. V. cinerella** Fw. in *Zw. Exs.* 217, Nyl. in *Ohl. Preuss.* p. 42, Hepp *Fl. E.* 710, *Krypt. Bad.* 843.
Ad corticem arborum frondosarum.
- 1305. * V. micula** (Fw., *Krb. S. L. G.* p. 373) Nyl. in *Norrl. Tavast.* p. 195, Hepp *Fl. E.* 108, *Rbh. L. E.* 391, *Anzi It. sup.* 381.
Ad corticem arborum frondosarum. Var. *furfuracea* (Mass. in *Lotos* 1856 p. 82) Gar. *Tent.* p. 79 in cortice Cerasi circa Aranco (Baglietto-Carestia).
- 1306. V. analeptoides** (Bagl.-Car. in *Comm. critt. it.* I p. 446) Nyl. in *Flora* 1873 p. 300, *Erb. critt.* II 324.
Ad corticem *Daphnes Mezerei* in vallibus montibusque alpium. Etiam in monte Reculet (Müller) et circa Riffersweil et Gossau (Hegetschweiler jr.).

(Verrucaria)

- 1307. V. betulina** (Lahm in Krb. *Pg.* p. 397) Nyl. in *Norrl. Tavast.* p. 195.
In cortice *Betulae albae* circa Bormio et in valle Malenco (Anzi).
- 1308. V. versispora** Bagl.-Car. *Anacr.* p. 337 sub *Microthelia*.
Gneissicola prope hospitium in Valdobbia (Baglietto-Carestia).
- 1309. V. pluriseptata** Nyl. *Pyrenoc.* p. 58, id. in *Flora* 1881 p. 540, Schaer. *L. H.* 645, Hepp *Fl. E.* 463, 955, 956.
Ad Juglandes juniores, Fraxinos et Carpinos prope Zürich (Hepp), Mornex (Müller) et Colico (Anzi), ad Moros prope Hübschern (Hegetschweiler jr.).
- 1310. V. epipolytropa** (Mudd *Man.* p. 298) Nyl. in *Flora* 1873 p. 74 et 204.
Supra *Lecanoram polytropam* in Torembé (Müller).
- 1311. V. advenula** Nyl. in *Flora* 1865 p. 606, Anzi *Lang.* 370.
Supra thallum *Lecideae excentricae* prope Genf et supra Bex (Müller), in monte Albis (Hegetschweiler jr.), in Veltlin (Anzi) et in Valsesia inferiore (Baglietto-Carestia).
- 1312. V. peregrina** Fw. in *Bot. Zeit.* 1855 No. 8 teste Arn. *Tir.* XX p. 5.
Supra thallum et apothecia *Lecanorae Bockii* prope Riva (Baglietto-Carestia).
- 1313. V. Valisiaca** (Müll.-Arg. in *Flora* 1874 p. 350).
Ad saxa nuda gneissiaca juxta Hôtel Monvoisin in valle de Bagnes (Müller).
- 1314. V. polyspora** Hepp in Müll.-Arg. *Genev.* p. 79 sub *Müllerella*.
Supra truncum Carpini prope Genf (Müller).

(Verrucaria)

- 1315.** *V. oxyspora* Nyl. in *Bot. Not.* 1852 p. 179, Schaer. *L. H.* 107 p. p., 108 (sporis longioribus), Hepp *Fl. E.* 460. Ad corticem Betulae.
- 1316.** *V. populicela* Nyl. in Norrl. *Torn.* p. 344. Syn. *V. Tremulae* (Krb. *S. L. G.* p. 372) Nyl. in Norrl. *Kar.* p. 40, Hepp *Fl. E.* 706, Anzi *Lang.* 521.
Ad *Populum tremulam* et *nigram* prope Zürich (Hepp), Riffersweil et Ürzlikon (Hegetschweiler jr.), Veltlin (Anzi), Valsesia inferior (Baglietto-Carestia), ad *Acer platanoides* prope Genf (Müller).
- 1317.** *V. Quercus* (Beltr. *Lich. Bass.* p. 250 non Mass. *Sched.* p. 103) Nyl. in *Flora* 1875 p. 14.
Ad corticem *Quercus* prope Genf (Müller), Riffersweil (Hegetschweiler jr.) et in monte Fenera (Baglietto-Carestia).
- 1318.** *V. parameca* (Mass. *Symm.* p. 97).
Ad corticem *Cerasi* inter Bossey et montem Salève (Müller).
- 1319.** *V. Maggiana* (Mass. *L. It.* 109).
Ad corticem *Coryli* unacum *V. Coryli* prope Veyrier (Müller).

n. Incerti loci.

- 1320.** *V. subnebulosa* Nyl. in *lit.*
Ad terram prope Bliggensdorf et Oberuster (Hegetschweiler jr.).
„Thallus gonimicus. Anneparasita in thallo *Pannariae*?“ Nyl. in *lit.*

V. — *Limboria* Fr.*

- 1321.** *L. sphinctrina* Duf. *MS.*, Nyl. *Pyrenoc.* p. 62, Schaer. *L. H.* 104 p. p., Hepp *Fl. E.* 428 p. p.
Frequens ad saxa calcaria.

* Genus valde dubium.

(Sarcopyrena)

VI. — *Sarcopyrenia* Nyl.

1322. *S. gibba* Nyl. (*Alger.* p. 342) *Pyrenoc.* p. 69, Syn. *Lithosphaeria Geisleri* Beckh. in *Krb. Pg.* p. 345, *Krb. L. S. G.* 382.

Ad saxa riparum fluminis Arve versus montem Salève (Müller).

VII. — *Melanotheca* Fée.

1323. *M. arthonioides* (Mass. in *Flora* 1856 p. 283) Nyl. *Pyrenoc.* p. 70, Anzi *Lang.* 308.

Ad Fraxinorum truncos in Veltlin, circa Como (Anzi), in montibus Salève (Müller) et Fenera (Baglietto-Carestia).

M. gelatinosa (Chev. in *Journ. Phys.* 1822 p. 54) Nyl. *Fm.* p. 145 censente Leight. *Great Brit.* Ed. III p. 498 in *Helvetia* vigeat.

VIII. — *Thelopsis* Nyl.

1324. *T. melathelia* Nyl. in *Flora* 1864 p. 358.

Unacum *Tortula tortuosa* in monte Braulio rarissima (Anzi).

1325. *T. rubella* Nyl. *L. P.* 98, id. *Pyrenoc.* p. 65.

Ad corticem Fagi et *Carpini Betulae* prope Riffersweil et Gossau (Hegetschweiler jr.).

Trib. XX. — PERIDIEI.

I. — *Mycoporum* Fw., Nyl.*

1326. *M. aterrimum* (Krmplh. in *Hb. Metzl.*) Nyl. in *lit.*, Anzi *Lang.* 461, *Erb. critt.* 1400.

„Genus *Mycoporum* potius Fungis adscribendum sit“ Nyl.

(Mycoporum)

Ad saxa micaceo-schistosa in Coniferarum sylvis supra Bormio (Anzi) et circa Riva in Valsesia (Baglietto-Carestia).

- 1327. *M. marmoratum*** (Schleich. *Exs.* p. p.) Nyl. in *lit.*, *Tichothecii* spec. *Krmplh. Bay.* p. 299. Syn. *Arthopyrenia punctulata* Metzl. *Hb.*

Ad saxa calcaria in valle Lauterbrunnen (Metzler), in montibus Salève et Tournette 2400 m. et prope Champey (Müller).

- 1328. *M. subcembrinum*** (Anzi *Symb.* p. 22) Nyl. in *lit.*, Anzi *Lang.* 384.

Ad corticem laevigatum Cembrae in sylva Ceresina vallis Furva (Anzi).

- 1329. *M. miserrimum*** Nyl. *En.* p. 145, Hepp *Fl. E.* 560, *Krypt. Bad.* 443.

Ad cortices *Quercuum juniorum* in Veltlin (Anzi), prope Konstanz (Stizenberger), Gossau (Hegetschweiler jr.) et Genf (Müller).

- 1330. *M. stilbellum*** Nyl. in *lit.*

Ad ramos *Salicum juniorum* prope Riffersweil et Bublikon (Hegetschweiler jr.).

- 1331. *M. ptelaeodes*** (Ach. *L. U.* p. 275) Nyl. *Scand.* p. 291 f. *majusculum* Nyl. in *Flora* 1873 p. 75, Anzi *Lang.* 470 b.

Ad corticem *Betulae* prope Bormio et Como (Anzi).

- 1332. *M. microscopicum*** Müll.-Arg. in *Flora* 1867 p. 438, Nyl. in *lit.*

Ad *Juglandum* ramos prope Veyrier (Müller).

- 1333. *M. elabens*** Fw. in Zw. *Exs.* 51, Nyl. *Prodr.* p. 171, Schaer. *L. H.* 232, Hepp *K. Z.* 205, id. *Fl. E.* 230.

Supra corticem *Pini sylvestris* prope Wachseidorn

(Endococcus)

(Schaerer) et Zürich (Hepp), ad *Betulas* et *Pinum sylvestrem* circa Riffersweil (Hegetschweiler).

II. — **Endococcus** Nyl.

- 1334. E. erraticus** (Mass. *Symm.* p. 94) Nyl. *Scand.* p. 283, Anzi *Lang.* 289, 489.

In alpinis supra alios lichenes parasitus: Rhaetia (Anzi), Rosenlauri (Metzler), Zermatt (Jack), in monte Tournette et prope Genf, Torembé in valle de Bagnes (Müller) et in summo Monte Rosa (Giordani).

- 1335. * E. microphorus** Nyl. in *Flora* 1881 p. 189, Anzi *It. sup.* 144.

Supra varios lichenes crustaceos (Anzi).

- 1336. E. gemmifer** (Tayl. *Hib.* 2 p. 95) Nyl. *Pyrenoc.* p. 64.

Parasitus in crusta *Lecideae contiguae*: Veltlin (Anzi), prope Meyringen (Schaerer), in monte Dent du Midi (Cas. de Candolle, Javelle), in areolis *Lecideae geographicae* prope Genf et in thallo *L. lenticularis* prope St. Maurice (Müller) et circa Riva (Baglietto-Carestia).

- 1337. E. macrosporus** (Hepp in Arn. *Tir.* III p. 14) Nyl. in Lamy *Cat.* p. 168, Anzi *It. sup.* 291.

Parasitus in *Lecidea geographica*.

- 1338. * E. stigma** (Krb. *Pg.* p. 468).

Supra thallum *Lecanorae intricatae* et *Verrucariae pyrenophorae* in Valsesia (Baglietto-Carestia). Var. *obtusisporus* Bagl.-Car. *Anacr.* p. 354 supra *Opegrapham zonatam* prope Riva (iid.).

- 1339. E. grandiusculus** (Arn. *Tir.* V p. 6), Anzi *Lang.* 369.

Supra *Lecanoram concolorem* in Valdobbia (Baglietto-

Carestia) et supra *Lecanoram calcaream* prope Bormio (Anzi).

1340. **E. ventosus** Nyl. in *Cromb. Brit.* p. 123, Anzi *Lang.* 537.
Supra thallum *Lecanorae ventosae* parasiticus in alpi-
bus Rhaeticis (Anzi), prope Riva (Baglietto-Carestia).
1341. **E. Arnoldi** (Hepp in *Mass. Misc.* p. 27).
Supra thallum *Urceolariae scruposae* in valle di Sotto
(Anzi) et in monte Salève (Müller).
1342. **E. hygrophilus** Arn. in *Flora* 1871 p. 147.
Supra thallum *Lecideae badioatrae* f. *rivularis* in Val-
sesia (Baglietto-Carestia). *F. minor* Bagl.-Car. *Anacr.*
p. 355 ibidem supra *Verrucariam hydrelam* (iid.).
1343. **E. bryonthae** Arn. in *Flora* 1874 p. 141.
Supra thallum lichenis indistincti in Valdobbia (Bag-
lietto-Carestia).

Addenda et Corrigenda.

7. Adde in monte Salève (Rome).
10. Loco micoschistum lege micaschistum.
22. Post Carestia adde in monte Salevula (Rome).
33. Adde in Salevula (Müller) et prope Voirons (Rome).
- 35—37 monente Nylander rectius sequente modo disponuntur:
35. **C. auriculatum** (Hffm.) Nyl.
36. * **C. ceranoides** (Borr.) Nyl.; ei veluti *C. auriculato* thal-
lus J +.
37. **C. granuliferum** Nyl. in *Flora* 1875 p. 103, Hepp *Fl. E.* 215.
Supra saxa calcaria et Nagelfluhe prope Zürich (Hepp).

- 37 bis. * **C. papulosum** Ach., Nyl.
 Utrique thallus J —.
54. Adde prope Veyrier (Rome).
57. Loco Riffersweil lege Buonas ad lacum Tugiensem.
62. Dele Hepp *Fl. E.* 215.
70. Loco Oltenhausen lege Ottenhausen.
73. Adde in Salicum truncis cavis prope Genf (Müller).
95. Adde ad terram calcariam prope Bormio et in monte Braulio (Anzi).
99. Parenthesis ante Hepp *Fl. E.* 331 claudatur.
103. Ante Fr. *L. E.* p. 397 comma (,) deleatur.
112. Loco *flexile* lege *flexili*.
119. Adde Var. *subtile* Hepp *Fl. E.* 605 supra truncos putrescentes circa Genf (Müller).
125. Dele semicolon (;) post Syn.
131. Loco Vgl. lege Nyl.
- 134, 135 et 138. Loco *Ann.* lege *N. Ann.*
139. Loco *B. icmadophyllus* lege **B. placophyllus**.
141. Loco *It. sup.* 27 lege *It. sup.* 28.
217. Dele *It. sup.* 54.
241. Loco continens lege continentem.
257. Teste Arnold in *Flora* 1882 No. 26, Hepp *Fl. E.* 866 dextr. = *P. subaurifera*, Hepp *Fl. E.* 866 sinistr. = *P. fuliginosa* et Anzi *Lang.* 507 = *P. exasperata* ad corticem *Pini Mughi* in valle di Fraèle (Anzi).
258. Adde *Schw. Krypt.* 739. Teste Arnold l. c. Anzi *Lang.* 540 = *P. exasperatula* ad corticem *Betulae albae* supra Bormio (Anzi).
260. Teste Arnold l. c. Schaer. *L. H.* 372 =
P. glomellifera Nyl. in *Flora* 1879 p. 223 et 1881 p. 453.
 Ad saxa in alpibus (Schaerer).
 „Intermedia inter *P. prolixam* et *verruculiferam*“ Nyl.

262. Teste Arnold l. c. Schaer. *L. H.* 371 =
P. verruculifera Nyl. in *Flora* 1878 p. 247, 1881 p. 453
 et in *Lamy Cat.* p. 36.
 Ad arborum corticem (Schaerer).
 Ante *P. fuliginosam* disponenda.
 Hepp *Fl. E.* 867 eodem teste = *P. fuliginosa* var.
laetevirens ad *Abietis pectinatae* corticem prope Liestal
 (Hepp) et Rbh. *L. E.* 902 = *P. subaurifera*.
 Loco granitosa et silacea lege granitosas et silaceas.
264. Schaer. *L. H.* 370 teste Arnold = *P. exasperata*.
285. Loco *Fl. E.* 262 lege *Fl. E.* 362.
288. Loco Subtr. *Peltigerei* lege Subtr. **PELTIGERINEI** (Nyl.
 in *lit.*).
290. Loco Müll.-Arg. *Hb.* lege Müll.-Arg. in *Flora* 1882
 p. 305.
321. Loco Lang. 239 lege Lang. 293.
332. Loco *L. H.* 164 lege *L. H.* 142.
370. Ante Schaer. *L. H.* comma (,) ponendum est.
375. Loco *Fl. E.* 643 lege *Fl. E.* 620.
384. *L. pusilla* rectius nominanda **L. tegularis** (Ehrh. *Pl.*
cr. 304).
391. *L. Lallavei* e lichenum Helveticorum numeris eximenda.
429. Adde in monte Titlis (Hegetschweiler jr.).
436. Post parenthesim clausam adde Nyl. in *Hb. Lojka*.
437. Loco Holzern lege Kolzern.
451. Loco *Fl. E.* 97 lege *Fl. E.* 79.
486. Adde prope Riffersweil (Hegetschweiler jr.).
492. Adde in montibus Albis, Speer et in Erstfelderthal
 (Hegetschweiler jr.).
572. Loco *Flora* 1853 lege *Flora* 1873 et loco *Lang.* 223
 lege *Lang.* 323.

585. Loco *K. Z.* 154 lege *K. Z.* 144.
622. Adde in montibus Speer et Leistkamm frequens (Hegetschweiler jr.).
626. Fructifera quoque ad Fagos prope Riffersweil (Hegetschweiler jr.).
627. Adde prope Oberuster et Mettmenstetten (Hegetschweiler jr.).
629. Adde Oberuster et Gossau (Hegetschweiler jr.).
- 633 bis. *P. laevigata* Nyl. (*Scand.* p. 181 et in *Flora* 1879 p. 330) in *Hb. Zw.* non Fr. fil. *Scand.* p. 316.
Ad Fagos prope Riffersweil et Engelberg rarissime (Hegetschweiler jr.).
Aequaeac *P. corallina* subspecies est *P. dealbatae* (Ach. *Prodr.* p. 29) Nyl. *Scand.* p. 180.
639. Adde ad truncos ramosque Pinorum in monte Speer et in Maderanerthal; supra *Salicem retusam* in monte Leistkamm (Hegetschweiler jr.).
- 640 bis. *P. coronata* (Ach. *L. U.* p. 310) Fr. fil. *Scand.* p. 321, Nyl. in *Hb. Zw.*
Ad Fagorum truncos in monte Soliat prope Neuchâtel (Hegetschweiler jr.).
644. Adde in monte Titlis ad frutices varios (Hegetschweiler jr.).
653. Adde supra *Pini sylvestris* corticem prope Gossau et Oberuster (Hegetschweiler jr.).
654. Adde prope Sewen (Hegetschweiler).
655. Loco Bachtelen lege Bachthalen et loco Altorf (Gisler) lege Mönchdorf (Hegetschweiler jr.).
665. Adde Zugerberg et Hinweiler Tobel (Hegetschweiler jr.).
667. Dele *Betulae* et post Knonau adde Mettmenstetten et Oberuster (Hegetschweiler jr.).
- 669 (nota). Loco Bachtelen lege Bachthalen.

671. Adde Näfels (Hegetschweiler jr.).
687. Post Seedorf (Gisler) adde supra *Pini sylvestris* corticem prope Gossau, Oberuster et in monte Albis (Hegetschweiler jr.).
700. Adde prope Ürzlikon (Hegetschweiler jr.).
711. Adde in monte Leistkamm (Hegetschweiler jr.).
720. Loco *Abietes* lege *Abietis*.
724. Adde ad Rhododendra copiose in Erstfelderthal et in montibus Speer et Säntis (Hegetschweiler jr.). Eadem ad Quercus prope Hausen et ad *Pyrum Malum* prope Riffersweil et Kappel indicatur, at haec facile ad *L. meiocarpoidem* pertineat.
725. Dele Hepp *Fl. E.* 487; loco humidus lege humidos.
- 725 bis. ***L. meiocarpoides** Nyl. in *lit.*, Hepp *Fl. E.* 487.
Ad corticem *Pyri Mali* circa Riffersweil (Hegetschweiler sr. et jr.).
„Sporis brevioribus a *L. meiocarpa* distat“ Nyl.
753. Adde ad Fagos prope Riffersweil et Knonau (Hegetschweiler jr.).
765. Adde supra *Pini sylvestris* corticem prope Gossau et Oberuster (Hegetschweiler jr.).
766. Adde saxicola et ad Hederae pampinos in Zugerberg (Hegetschweiler jr.).
799. Adde supra saxa calcaria prope Riffersweil (Hegetschweiler jr.).
800. Adde supra corticem *Salicis cinereae* prope Gossau (Hegetschweiler jr.).
807. Loco Riffersweil lege St. Wolfgang ditionis Zug.
816. Adde in monte Pilatus (Hegetschweiler).
823. Loco resinosas lege resinosos.
825. Adde ad *Pyrum communem* prope Mettmenstetten et Hausen (Hegetschweiler jr.).

843. Adde Malans.
846. Adde Titlis (Hegetschweiler jr.).
869. Loco casere lege casera.
887. Loco *Fl. E.* 226 lege *Fl. E.* 266.
899. Loco *Fl. E.* 224 lege *Fl. E.* 244.
987. Loco summos lege summas.
1005. Loco Alnos lege Betulas et *Pinum sylvestrem*.
1017. Adde Riffersweil (Hegetschweiler jr.).
1029. Adde in monte Pilatus (Hegetschweiler).
1036 et 1038. Adde Riffersweil (Hegetschweiler sr. et jr.).
1042. Adde ad Cembras in Engadin (Hegetschweiler).
1051. Adde prope Riffersweil (Hegetschweiler).
1052. Post Anzi adde Pilatus (Hegetschweiler).
1061. Dele Riffersweil.
1072. Adde Riffersweil et Gossau (Hegetschweiler jr.).
1073. Adde ad saxa calcaria prope Sewen (Hegetschweiler),
ad Nagelfluhe prope Zug (Hegetschweiler jr.).
1091. Adde Riffersweil (Hegetschweiler jr.).
1095. Adde ad *Carpinum Betulam*, *Fagum* et *Corylum* prope
Riffersweil et Gossau (Hegetschweiler jr.).
1107. Adde in montibus Leistkamm et Pilatus (Hegetschweiler jr.).
1111. Adde prope Riffersweil, Gossau et Maschwanden ad
saxa varia (Hegetschweiler jr.).
1117. Adde prope Mettmienstetten (Hegetschweiler sr. et jr.).
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