

nia erumpentia, aggregata, vel sparsa, subglobosa, atra, ostiolo vix prominulo: stylosporae oblongo-ellipticae, sterigmate filiformi, subaequilongo fultae, primum hyalinae, uniloculares, tandem badio-fuscae, medio vel prope medium septatae, ibique non aut vix constrictae, 9—10 Mk. longae, 3—4 Mk. crassae. *Cladosporium ampelinum* Passer. nov. spec. Hyphae fasciculatae, simplices, strictae, apice, plus minusve torulosae, e fumoso hyalinae: spores terminales, fusiformes, fuscae, 5—7-septatae, basi saepe in articulum stipiformem (an germinantes?) productae. In foliis *Vitis silvatica*. — *Cladosporium bacilligerum* Mont., *Puccinia Liliacearum* Duby Teleutosporae sat polymorphae, interdum uniloculares; Uredosporae subrotundae pallescentes. — Pucc. *Glechomae* DC., *Melampsora populina* Lév., *Trichobasis Pyrolae* Berk., *Valsa cerviculata* Fr., *Sphaeria ovalis* Passer. nov. spec. Perithecia primo epidermide tecta, dein denudata, oblongo-ovata, ostiolo minuto praedita. Asci oblongo-clavati, membrana tenuissima facile diffluente, aegre conspicui 8-spori. Sporidia subuniserialia, oblongo elliptica, simplicia, hyalina, biguttulata, 6 Mk. longa, 2 Mk. cr. — In caulis siccis *Dauci Carotae*. — *Lophiostoma semilibera* Schem. Sferiac. ital., *Pleospora Alii* (Rabh.) Schem. Sfer., *Sphaerella Fuckelii* Passer. (= *Sphaeria Epilobii* Fuck. Symb.), *Asteroma Parmelioides* Terrac. (Ab *Ast. parmelioide* Desmaz. diff. sporis plerumque pyriformibus carneis. *Septoria Chelidonii* Desmaz., *Puccinia Menthae* Pers., *P. Compositarum* Schlecht., *Peridermium oblongisporium* Fuck.

Lichenologische Ausflüge in Tyrol. Von F. Arnold.
VI. Die Waldrast.

Hier werden folgende neue Formen beschrieben:

Flechten vom Glimmerschiefer.

Aspicilia ceracea Arn. exs. 9.226. — Thallus pallide testaceus, K—, medulla jodo non mutatur, gonidia luteo-viridia, — 12—16 mm. lat.; apoth. carnea, intus incoloria, hymen. jodo caerul., dein vinose rubens; sporae ovales, 8 in asco, 12—15 mm. lg., 6—8 mm. lat.

Lecidella goniophila Kb. Var. . . . aut propria species? Thallus minute granulosus, sordidus, apothecia minora, plana, nitida, atra, epith. viride, K—, hym. incolor, jodo caerul., hyp. leviter fuscescens, paraph. apice virides, sporae ovatae, 12—15 mm. lg., 7—9 mm. lat., 8 in asco.

Lecidella umbratilis Arn. exs. 438 (Synonyma forsant sint: *Lecid. glaucina* Rehm in lit. ad Lojka; *Lec. subinfidula* Nyl. Flora 1869, 295; *Lec. deplanatula* Müll. Flora 1870. 165.) — Thallus sordidus, granulosus, non raro subnullus,

apoth. parva, atra, convexa; epith. atro-viride, K—, hymen glaucescens, sub microscopio leviter viridulum vel parte inferiore subicolor, jodo caerul., hyp. atroviride, subglaucum, paraph. leviter conglut., sporae subbaccilares, unilocul., non raro cum 2—3 guttulis oleosis, 12—15—18 mm. lg., 4mm. lat., 8 in asco.

Lecidella atrofuscens Nyl. Flora 1866 p. 371?? — Thallus areolatus, fuscens, Chl—, medulla jodo caerulescens; apoth. nigra, thalli areolis immixta; epith. viride fuscum, hym. incolor, jodo caerulescens, hyp. fuscens, sub microscopio lutescens; sporae ovatae, utroque apice plerumque obtusae, 17—23 mm. lg., 10—12 mm. lt. — Habituell ist die Flechte der *Lecidea fumosa* (fuscoatra) völlig gleich, unterscheidet sich aber durch die Jodfärbung der Markschicht, des helleren Hypoth. und die grösseren Sporen.

Lecidella botryosa Hepp in lit. ad Metzler 1862. — Thallus albidus, granulosus, non raro subnullus, medulla jodo non coloratur; apothecia atra, saepe botryoso-conferta, convexa; epith. atroviride, K—; hymen. viridulum, tenuiter sectum subicolor, jodo caerul., hyp. paullo sordidulum; paraph. conglutinatae, apice atrovirides; sporae uniloculares, ovatae, non raro subbaccilares, 9—12 mm. lg., 4—5 mm. lat., 8 in asco.

Wasserflechten.

Thelidium rivale Arn. exs. 442. *Thel. Sprucei* var. *crassiseda* Anzi exs. 493 forsitan non differt. — Thallus sordide lutescens vel pallide incanus, tenuis, effusus, apoth. majora, atra, perith. crassum, dimidiatum, hymen. jodo vinose rubens, paraph. et gonidia hymenialia desunt, sporae incolores, 3—6-septatae, septis non raro 1—2 divisae, 8 in asco, 48—60—78 mm. lg., 22—30 mm. lat.

Polyblastia abscondita Arn.? — Thallus sat tenuis, macula lutescente indicatus, apoth. atra, parva, immersa, perith. integrum, hymen. jodo vinose rubens; nec paraph. nec gonidia hymen. vidi; sporae incolores, latae, 8 in ascis latis, 3—5-septatae, loculis circa 8—12; 30—36 mm. lg., 18—22 mm. lat.

Polybl. amosa Arn var.? — Thallus tenuissimus, macula lutescente indicatus, apoth. parva, immersa, peritheci integr., hymen. jodo vinose rubens absque paraph. et gonidiis hymenialibus, sporae incolores pluriloculares, 5—7-septatae, loculis circa 16, 8 in asco, 40—44 mm. lg., 18—22 mm. lat.

Polyblastia — —. Thallus subnullus, macula pallida indicatus, apoth. parva, atra, paullo emersa; perith. integr., paraph. desunt, gonidia hymenialia (ni fallor) subrotunda, luteo-viridia, hymen. jodo vinose rubens, sporae incolores,

multiloculares, 9—11-septatae, loculis circa 36 (juniores 4—5 septatae, loculis majoribus circa 12), 52—58 mm. lg., 20—23 mm lat., 8 in asco.

Flechten auf abgedornten Phanerogamen
und auf Moosen.

Biatora — — Thallus sat tenuis, albidus, apoth. rufo-fusca, parva, convexa, epith. fuscescens, K—, hym. hyp. incolor, jodo caerul., deinde vinose rubens, sporae 8 in asco, ovales, non raro subrotundae, 9—12 mm. lg., 6—7 mm. lat.

Bilimbia substrachona Arn. var. *obtegens* Arn. Thallus albidus, minute granulosus, apoth. nigrescentia, epith. atro-viride, tenuiter sectum viride, K—, hym. incolor, paraph. conglus., apice clavato-incrassatae, clava viridi, hym. jodo caerul., deinde vinose rubens, hyp. rufum, tenuiter sectum rufescens, sporae 3-rarius 5-septatae, juniores biloculares, utroque apice cuspidatae, rarius obtusiusculae, 20—28 mm. long., 3—4 mm. lat., 8 in asco.

Coniangium Koerberi Lahm. *Varietas*. Thallus sub>nullus, apoth. atra, minutissima, epith. obscure viride, hym. leviter lutescens, jodo saturate vinose rubens; hym. rufescens, paraph. arcte adglutinat., sporae 6—8 in ascis supra rotundatis, incolores, 1-septatae, uno septo paullo latiore, altero elongato, 12—15 mm. leg., 5—6 mm. lat.

Sagedia cognata Arn. (n. sp.) — Thallus albidus, granulosus, muscos vetustos obducens, apoth. parva, atra, emersa, peritheci. dimidiatum, hymen. jodo solum fulvescens, paraph. capillares, sporae 3-septatae, utroque apice subcuspidatae, incolores, 8 in ascis subcylindricis, 22—28 mm. long., 5—6 mm. lat.

Polyblastia eanescens Arn (n. sp.). — Thallus tenuissimus, macula sovdida indicatus, apoth. parva, muscorum caulis isidentia, atra, subglobosa, apice pertusa, perith. integrum, hymen. absque gonidiis hymenialibus jodo vinose rubens, paraph. desunt; sporae 8 in ascis latis, juniores 1-septatae, maturae 7—9-sept., multiloculares, 45—54 mm. lg. 18—25mm. lat.

Flechten auf Kalksteinen, Blöcken und Felsen.

Pyrenodesmia Agardhiana Mass. Var. *nigricans* Arn Ausfl. Schlern, p. 640. Anzi 37, dext. — Thallus crassior, sordide fuscescens, apoth. nigricantia.

Aspicilia flava (Hepp) a. f. *detrita* Arn. — Thallus tenuis, leviter rimulosus, sordidus, thalli gonidia luteo-viridia; apoth. minora, rotundata, atrocaerulea, epith. glaucum, K—; hym. hyp. incolor, jodo caerul., paraph. crassae, conglut., sporae ovales, non raro subrotundae, 9—15—18mm. lg. 9—12—14mm. lat., 8 in asco. — b. f. *rufescens* Arn.

— Thallus rimulosus, sordide rufescens, gonidia luteo-viridia, 15mm. lat., apoth. nigrescentia, supra thallum emersa, pallide marginata, rotunda; epith. glaucum, K—, hym. incolor, jodo caerul., hyp. lutescens, sporae 8 in asco, 15—24 mm. lg., 12—15 mm. lat.

Biatora — —. Thallus paullo areolato diffractus, granulosus, sordide albidus, K—, apoth. rufa, epith. fuscens, hym. hyp. incolor, jodo caerul., paraph. conglut., sporae ovales, uniloculares, utroque apice obtusae, 8 in asco, 15—18 mm. lg., 6—10 mm. lat.

Biatora subdifferacta Arn. Flora 1869. *Var. alpestris* Arn. exs. 412. — Thallus sat tenuis, saepe subnullus, apoth. fusca, plana vel non raro botryoso-congesta, epith. subicolor, hym. hyp. incolor, jodo caerul., deinde vino rubens, hyp. fuscum, K. vix coloratum, sporae tenues, 12mm. lg. 4mm. lat.

Catillaria (vel Biatorina) — — (forsan nova species). — Thallus sordidus, sat tenuis, leproso granulosus; apoth. atra illis *Cat. acrust.* simillima, epith. atroviride, sub microscopio viridulum, K—, hym. viridulum, jodo vino rubens, hyp. nigrescens, tenuiter sectum fuscum, K—, paraph. non articulatae, apice viridulae, clava non incrassata, sporae biloculares, obtusae, 8 in asco, incolores, 10—12 mm. lg., 5 mm. lat.

Sagedia morbosa Arn. (n. sp. ?) — Thallus albidus sat tenuis, effusus, apoth. atra, emersa, hymen. jodo fulvescens, paraph. capillares, sporae 8 in ascis subcylindricis, juniores hyalinae, aetate fuscantes, fuscae, paullo constrictae, 1—3 septatae, non raro cum 2—4 guttulis oleosis, 30—34 (—36) mm. lg., 12 (—15) mm. lat.

? *Sagedia subarticulata* Arn. (n. sp. ?) — Thallus subnullus, apoth. parva, atra, immersa, deformia, paraphyses (si verae adsint) robustae, hymen. post colorem caeruleum saturate vino rubens, asci oblongi, circa 80—94mm. lg., 30—36mm. lat., sporae 8 in asco, juniores incolores, maturae fuscae, 1 (—3) septatae, rectae vel leviter curvatae, lateribus subarticulato-constrictae, 30—33 (—36) mm. lg. 8—9 mm. lat.

Polyblastia discrepans Lahm. f. *dilatata* Arn. Sporae 25mm. lg., 14—16 mm. lat.

Polyblastia dissidens Arn. (n. sp.) — Thallus tenuissimus, albidus, apoth. sat parva, atra, emersa, subglobulosa, singula vel accumulata, peritheci integrum, paraph. capillares, hymen. jodo solum fulvescens, gonidia hymenalia desunt, sporae 8 in ascis oblongis, juniores hyalinae, maturae fuscae, dyblastae, deinde 3-septatae, septis saepe iterum divisis, quare sporae 5—7-loculares, 23—30 mm. lg. 10—12 mm. lat.

? *Sporodictyon clandestinum* Arn. (n. sp.). — Thallus subnullus, apoth. omnino sepulta, extus non visibilia, solum macula incana indicata, atra, perith. integr., hymen. absque gonidiis hymenalibus et paraph., sporae 8 in asco, incolores, latae, regulariter uno apice late rotundatae, altero attenuatae, 7—9-septatae, media sporae parte repetite divisae, 45—50—64 mm. lg., 24—38 mm. lat.

Rinden- und Holzflechten.

Biatora (Lecanora) Gisleri Anzi 380 Arn. 415. — Apothecia saepe lecanorina, epith. fuscescens, K—, hym. hyp. incolor, jodo caerul., gonidia non raro hypothecio subjacentia; sporae latiores quam apud B. silvanam, unilocul., raro pseudodyblastae, 15—17 mm. lg., 6—7 mm. lat., 8 in asco.

Biatora — — (*Berengeriana corticola?*) — Thallus albidus, subnullus, apoth. fusca, epith. fuscescens, hym. incolor, jodo caerul., paraph. conglut., hym. fuscum, sporae ovales 15—18 mm. lg., 7—8 mm. lat., 8 in asco. — Durch das braune Hypothecium vom Formenkreise der tenebricosa, silvana, Gisleri zu trennen.

Parasiten.

Endococcus hygrophilus Arn. Flora 1871. Var. Berengerianus Arn. — Apothecia sat minuta, atra, globoso-emersa, dispersa, hymen. jodo solum fulvescens, paraph. capillares, sporae 1-septatae cum 2—4 guttulis oleosis, utroque apice plus minus cuspidatae, 22—24—28 mm. lg., 5—6 mm. lat., 8 in ascis oblongis

Juratzka.

L. Rabenhorst, die Algen Europa's mit Berücksichtigung des ganzen Erdballes. Dec. 229—231. Dresden, 1872.

Diese Tripeldecade enthält Repräsentanten aus dem rothen Meere, der Umgegend von Calcutta, dem atlantischen Ocean u. s. w., als *Hormophysa triquetra* (L.) K., *Hypoglossum Leprieurii* β. *subtilissimum* Martens, *Sargassum subrepandum* Ag., *S. linifolium* J. Ag., *S. linifolium* var. *salicifolium* J. Ag., *S. Hornschuchii* Ag., *S. bacciferum* Ag., *Lithothamnion papillosum* Zanard., *L. hieroglyphicum* Zanard., *L. fasciculatum* (Lam.), *Podosphenia Lyngbyei* K., *Rhipidophora abbreviata* K. — aus dem Süsswasser *Lemana torulosa* Ag., *Hydrogastrum Wallrothii* (K.), *Vaucheria Dillwynii* Ag., *Gongrosira ericetorum* K., *Spirogyra orbicularis* Hass., *Closterium Auerswaldii* Rabenh., *Stichococcus bacillaris* Naeg., *Hapalosiphon Braunii* Naeg., *Tolypothrix distorta* (Müll.), *Zonotrichia rivularis* (Naeg.), *Nostoc laevigatum* und *N. rufescens* Ag. etc. — Eingeliefert wurden diese Beiträge von den Herren Buchinger, Caldesi, Cleve, Decker, Grunow, Jack, Kalchbrenner, E. Kühn, Kurz, Leiner, Limpricht, Magnus, Marcucci, Nordstedt, Piccone, Poerzler, Reichardt, Saettone, Schimper, Zeller.

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