

Lichenicolous Biota (Nos 181–200)

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Abstract: The 8th fascicle (20 numbers) of the exsiccata 'Lichenicolous Biota' is published. The issue contains material of 20 non-lichenized fungal taxa (14 teleomorphs of ascomycetes, 5 anamorphic states of ascomycetes, 1 basidiomycete), including isotype material of *Hainesia xanthoriae* Brackel (no 195). Furthermore, collections of the type species of the following genera are distributed: *Cecidonia* (*C. umbonella*), *Everniicola* (*E. flexispora*), *Geltingia* (*G. associata*), *Marchandiomyces* (*M. corallinus*), *Phacopsis* (*P. vulpina*), *Sclerococcum* (*S. sphaerale*), *Thamnogalla* (*T. crombiei*), and *Rhagadostoma* (*R. lichenicola*). *Sagedia engeliana* Saut. (now *Dacampia* e.), originally described as a lichen, is typified on the lichenicolous fungus which parasitizes thalli of the *Solorina saccata* group.

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Introduction

The exsiccata 'Lichenicolous Biota' is continued with fascicle 8 containing 20 numbers.

The exsiccata covers all lichenicolous biota, i.e., it is open not only to non-lichenized and lichenized fungi, but also to myxomycetes, bacteria, and even animals, whenever they cause a characteristic symptom on their host (e.g., discoloration or galls). Consequently, the exsiccata contains both highly host-specific and plurivorous species, as long as the individuals clearly grow upon a lichen and the collection is homogeneous, so that identical duplicates can be prepared.

The five complete sets are sent to herbaria of the following regions: Central Europe (Graz [GZU]), Northern Europe (Uppsala [UPS]), Western Europe (Bruxelles [BR]), North America (New York [NY]), Australasia (Canberra [CANB]). Incomplete sets will preferably be distributed to Barcelona [BCN], Edinburgh [E], Saint Petersburg [LE], Munich [M], and Prague [PRM] (herbarium acronyms sec. HOLMGREN et al. 1990, continued and updated as electronic database by THIERS 2010, onwards and hosted at New York Botanical Garden <http://sciweb.nybg.org/science2/IndexHerbariorum.asp>). Also in the future it is planned to publish at least one fascicle per year, consisting of a variable number of decades.

The grid reference preceded by the abbreviation 'GF' refers to the grid used by the project 'Floristische Kartierung Mitteleuropas' (floristic mapping of Middle Europe, e.g. EHRENDORFER & HAMANN 1965).

For the 8th issue, I gratefully acknowledge the contribution of three collections by Jana KOCOURKOVÁ (one together with Pavel KOCOUREK), as well as one collection each by Franz BERGER, Curtis BJÖRK, Wolfgang v. BRACKEL, and Michaela SEBERNEGG (together with Helmut MAYRHOFER). In fieldwork I received support by Angela HAFELLNER, Jolanta MIADLIKOWSKA, and Lucia MUGGIA. Jana KOCOURKOVÁ, Franz BERGER, Paul DIEDERICH, and Wolfgang v. BRACKEL contributed to the scientific content of the fascicle by the identification of either lichenicolous fungi or hosts. Walter OBERMAYER, and Helmut MAYRHOFER are thanked for critically reading the manuscript.

I would be much obliged to colleagues who send material of lichenicolous biota for distribution in future fascicles. The collections should be divided up into at least 5 (up to 10) duplicates, preferably already prepared. Unprepared collections should be rich enough to obtain at least 5 duplicates.

181. *Cecidonia xenophona* (Körb.) Triebel & Rambold

in Nova Hedwigia 47: 291 (1988). – Bas.: *Placographa xenophona* Körb. in Parerga Lichenol.: 464 (1865). – Syn.: *Patinella xenophona* (Körb.) Rehm in Rabenh. Krypt.-Fl., Pilze, 2. ed., 1(3): 315 (1890). – *Nesolechia xenophona* (Körb.) Vouaux in Bull. Soc. Mycol. France 29: 416 (1913). – *Lithographa xenophona* (Körb.) Lettau in Hedwigia 52: 118 (1912).

Host: *Porpidia crustulata* (thallus)

Europe, Austria: Steiermark (=Styria), Eastern Alps, Seetaler Alpen, c. 10.4 km SW above the town Judenburg, NE ridge of Wenzelalpe, Ersstand, 47°06'50"N / 14°32' 50"E, c. 2110 m alt., GF 8853/3, low outcrops and small cliffs of eclogitaphibolite in the upper part of the steep slope exp. to the SE, on pebbles lying on the ground.

Note 1: The type host of *Cecidonia xenophona* is *Porpidia contraponenda* (see Triebel & Rambold, l. c.).

Note 2: Following ICBN 60.1., the original spelling of the epithet is retained as none of the cases allowing an orthographic correction is applicable to this name.

24. VII. 2010

leg. J. Hafellner (75915), det. J. Hafellner

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

182. *Dactylospora saxatilis* (Schaer.) Hafellner

in Beih. Nova Hedwigia 62: 129 (1979). – Bas.: *Calicium saxatile* Schaer. in Naturwiss. Anzeig. Allg. Schweizer. Ges. Naturwiss. 5: 35 (1821). – Syn.: *Karschia saxatilis* (Schaer.) Rehm in Rabenh. Krypt.-Fl., Pilze, 2. ed., 1(3): 350 (1890). – *Buellia saxatilis* (Schaer.) Körb. in Syst. Lich. Germaniae: 228 (1855). – *Acolium saxatile* (Schaer.) A.Massal. in Mem. Lichenogr.: 151 (1853). – *Trachylia saxatilis* (Schaer.) Fr. in Fl. Scand.: 282 (1835). – *Buelliella saxatilis* (Schaer.) Fink in Lich. Fl. United States: 372 (1935).

Host: *Pertusaria flavicans* (thallus)

Europe, Austria: Kärnten (=Carinthia), Eastern Alps, Steirisches Randgebirge, Koralpe E above the town Wolfsberg, Steinschneider, gently inclined ridge exposed to the W below the broadcasting station, 46°47'48"N / 14°57'13"E, c. 1980 m alt., GF 9255/2; low outcrops of mineral-rich marble surrounded by alpine meadows, on inclined rock faces.

Note 1: Schaerer thought that the (host) thallus and the lichenicolous discomycete represent together one lichenized species. The name is commonly applied to the lichenicolous fungus.

Note 2: Type material has not been reinvestigated so far, therefore the identity of the host in the type collection remains unclear.

11. VI. 2009

leg. J. Hafellner (73518), det. J. Hafellner

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

183. *Everniicola flexispora* D.Hawksw.

in Notes R. Bot. Garden Edinburgh 40: 384 (1982).

Host: *Nephroma arcticum* (thallus)

North America, U.S.A.: Alaska, Matanuska-Susitna Borough, surroundings of Byers Lake c. 45 km N of Talkeetna, along trail by the cascades SE above the lake, 62°44'45"N / 150°05'00"W, c. 350 m alt.; boreal forest with moss-covered boulders of granite on slope exposed to the N, on the mossy ground.

Note 1: The type host of *Everniicola flexispora* is *Evernia prunastri*.

Note 2: *Everniicola flexispora* is the type species of the genus *Everniicola* D.Hawksw.

25. VIII. 2010

leg. J. Hafellner (80242), det. J. Hafellner
(excursion together with L. Muggia)

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

184. *Geltingia associata* (Th.Fr.) Alstrup & D.Hawksw.

in Meddel. Grønland, Biosci. 31: 33 (1990). – Bas.: *Lecidea associata* Th.Fr. in Svensk. Vetensk. Akad. Handl. 7(2): 42 (1867). – Syn.: *Nesolechia associata* (Th.Fr.) Sacc. & D.Sacc. in Syll. Fung. 17: 171 (1905). – *Leciographa associata* (Th.Fr.) Zopf in Hedwigia 35: 341 (1896).

Host: *Thamnolia vermicularis* (thallus)

North America, Canada: British Columbia: Thompson Plateau, Venables Road, c. 17 km S of Ashcroft, 50°35'N / 121°19'W, c. 550 m alt.; south-facing siliceous cliff in *Artemisia* steppe slightly shaded by *Pinus ponderosa*.

Note 1: The type host of *Geltingia associata* is *Ochrolechia tartarea*. Apart from various *Ochrolechia* species, *G. associata* is occasionally reported on *Pertusaria dactylina* and *Thamnolia vermicularis* (see Diederich et al., Lichenologist 42: 267–268, 2010).

Note 2: *Geltingia associata* is the type species of the genus *Geltingia* Alstrup & D.Hawksw.

19. IV. 2011

leg. C. R. Björk (22459), det. P. Diederich

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

185. *Marchandiomyces corallinus* (Roberge) Diederich & D. Hawksw.

in Diederich, Mycotaxon 37: 312 (1990). – Bas.: *Illosporium corallinum* Roberge in Desmazières, Pl. Crypt. France, Ed. 1, fasc. 32, no. 1551 (1847) [not seen, fide Hawksworth, Bull. Brit. Mus. Nat. Hist., Bot. ser. 6(3): 236, 1979].

Host: *Aspicilia* spec. (thallus)

Europe, Czech Republic: Central Bohemia, distr. Beroun, Křivoklátsko Protected Landscape Area, Točník, below Točník castle, 49°53'24.9"N / 13°53'13.5"E, c. 370 m alt., MTB 6149 A08, on S-facing rocky slope below castle ruins, on porphyric rocks.

Note 1: According to Hawksworth (l.c.), the host of the type collection is *Physcia tenella*.

Note 2: *Marchandiomyces corallinus* is the type species of the genus *Marchandiomyces* Diederich & D.Hawksw.

6. VII. 1998 leg. J. Kocourková (8226) & P. Kocourek, det. J. Kocourková
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

186. *Milospium lacoizquetae* Etayo & Diederich

in Mycotaxon 60: 424 (1996).

Host: *Cladonia digitata* (thallus)

Europe, Czech Republic: Northern Bohemia, distr. Jablonec n. Nisou, Jizerské hory Mts, NW-facing slope of Jizera Mt., at path going to top, 50°50'5.2"N / 15°15'23.4"E, c. 1065 m alt., MTB 5157 D06; remnants of spruce forest, on moribund standing *Picea abies*.

Note 1: The type host of *Milospium lacoizquetae* is *Cladonia parasitica*.

19. VIII. 2000 leg. J. Kocourková (8219), det. J. Kocourková
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

187. *Phacopsis vulpina* Tul.

in Ann. Sci. Nat., Bot., sér. 3, 17: 126 (1852). – Syn.: *Agyrium vulpinum* (Tul.) H.Olivier, Bull. Acad. Géogr. Bot. 16: 196 (1906).

Host: *Letharia vulpina* (thallus)

Europe, Austria: Steiermark (=Styria), Eastern Alps, Niedere Tauern, Schladminger Tauern, uppermost Katschtal NNW of the village Schöder, E below the mountain Sauofen, c. 1.5 km W of the Stampferhütte, 47°16'05"N / 14°02'05"E, c. 1625 m alt., GF 8750/1; subalpine larch forest, on bark of *Larix decidua*.

Note 1: *Letharia vulpina* is the type host of *Phacopsis vulpina*.

Note 2: *Phacopsis vulpina* is the type species of the genus *Phacopsis* Tul.

19. V. 2011 leg. M. Sebernegg & H. Mayrhofer, det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

188. *Pronectria xanthoriae* Lowen & Diederich

in Mycologia 82: 788 (1990).

Host: *Xanthoria parietina* (thallus, apothecia)

Europe, Czech Republic: Southern Moravia, distr. Brno-country, Mokrý-Horákov, Mokrý quarry, in area of limestone quarry on S-facing slope above of the administrative buildings, 49°13'36.6"N / 16°45'27.6"E, c. 390 m alt., MTB 6766 D; in thin growth of tall xeric shrubs, on branches of *Acer campestre*.

Note 1: *Xanthoria parietina* is the type host of *Pronectria xanthoriae*.

11. IX. 2013 leg. J. Kocourková (8207), det. J. Kocourková
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

189. ***Sclerococcum sphaerale*** (Ach.) Fr.

in Scleromyceti suecici no. 179 (1821). – Bas.: *Spiloma sphaerale* Ach. in Synopsis Method. Lich.: 2 (1814). – Syn.: *Acolium sphaerale* (Ach.) Rehm in Ascomyceten: Hysteriaceen und Discomyceten, Rabenhorst's Kryptogamen-Flora, 2. Aufl., Bd. 1(3): 400 (1889). – *Spilomium sphaerale* (Ach.) H.Olivier in Exposé Lich. l'Ouest France 2: 402 (1903). – *Coniothecium sphaerale* (Ach.) Keissl. in Flechtenparasiten, Rabenhorst's Kryptogamen-Flora, 2. Aufl., Bd. 8: 616 (1930).

Host: *Pertusaria corallina* (thallus)

Europe, Austria: Kärnten (=Carinthia), Eastern Alps, Saualpe W of the town Wolfsberg, Beilstein NW of the Gießlhütte, short ridge N below the summit, 46°50'55"N / 14°42'15"E, c. 1400 m, GF 9154/3; outcrops of eclogite below some scattered *Larix decidua*, on inclined rock faces exposed to the SE.

Note: *Pertusaria corallina* is the type host of *Sclerococcum sphaerale*.

Note 2: *Sclerococcum sphaerale* is the type species of the genus *Sclerococcum* Fr.

16. X. 2010 leg. J. Hafellner (76353), det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

190. ***Thamnogalla crombiei*** (Mudd) D.Hawksw.

in Notes R. Bot. Garden, Edinburgh 38: 178 (1980). – Bas.: *Endocarpon crombiei* Mudd in Monogr. Brit. Cladoniae: 36 (1865). – Syn.: *Pharcidia crombiei* (Mudd) Sacc. & D.Sacc. in Syll. Fung. 17: 648 (1905).

Host: *Thamnotia subuliformis* (thallus)

Europe, Austria: Steiermark (=Styria), Eastern Alps, Niedere Tauern, Wölzer Tauern, mountain chain N of Lachtal c. 9.5 km NE of the town Oberwölz, Kleiner Zinken, somewhat SW below the summit, 47°16'35"N / 14°21'20"E, c. 2120 m alt., GF 8752/1; W-E directed outcrop of marble surrounded by alpine vegetation, over plant remnants exposed to the N.

Note 1: The type host of *Thamnogalla crombiei* is *Thamnotia vermicularis*.

Note 2: *Thamnogalla crombiei* is the type species of the genus *Thamnogalla* D.Hawksw.

1. IX. 2009 leg. J. Hafellner (73890), det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

191. ***Cecidonia umbonella*** (Nyl.) Triebel & Rambold

in Nova Hedwigia 47: 284 (1988). – Bas.: *Lecidea umbonella* Nyl. in Flora (Regensburg) 49: 372 (1866).

Host: *Lecidea lapicida* subsp. *pantherina* (thallus)

Europe, Austria: Kärnten (=Carinthia), Eastern Alps, Saualpe W above the town Wolfsberg, E ridge of Kienberg NW above of Ladinger Alm, 46°52'55"N / 14°39'20"E, c. 1910 m alt., GF 9153/2; boulders and outcrops of micaschist, on inclined rock faces.

Note 1: As lichenicolous growth originally was not recognized respectively not indicated, no host is mentioned in the protologue. The host in the type collection was tentatively determined as *Lecidea lapicida* (Triebel & Rambold, l.c.).

Note 2: *Cecidonia umbonella* is the type species of the genus *Cecidonia* Triebel & Rambold.

11. IX. 2011

leg. J. Hafellner (78659), det. J. Hafellner

distributed to: BR, CANB, GZU, LE, M, NY, UPS

192. ***Dacampia engeliana*** (Saut.) A.Massal.

in Geneac. Lich.: 22 (1854) (as "*Dacampia Engeliam*"). – Bas.: *Sagedia engeliana* Saut. in Bot. Centralbl. 20: 406 (1846). – Syn.: *Xenosphaeria engeliana* (Saut.) Trevis. in Conspectus Verruc.: 18 (1860). – *Pleospora engeliana* (Saut.) G.Winter in Rabenh. Krypt.-Fl., 2. ed., 1(2): 493 (1885). – *Polyblastia engeliana* (Saut.) H.Olivier in Bull. Acad. Geogr. Bot. 16: 258 (1906).

Host: *Solorina* spec. (thallus)

Europe, Italy: Lombardia, prov. Brescia, Eastern Alps, Central Alps, Ortler-group (Stelvio-group), Cima di Cadi N above Passo del Tonale, N below the summit, 46°16'35"N / 10°34'15"E, c. 2590 m alt.; outcrops and loose stones of calcareous schist in alpine vegetation, on soil.

Note 1: The taxon was originally regarded to constitute a pyrenocarp lichen and the protologue is a combination of both fractions. Sauter (l.c.) saw in it the link between the genera *Endocarpon* (represented by "*E. miniatum*", i.e. *Dermatocarpon miniatum*) and *Sagedia* (represented by "*S. cinerea*", i.e. *Catapyrenium cinereum*). Given thallus characters are those of the lichen genus *Solorina* but the host was not correctly recognized by him.

Note 2: Although combined to several other genera by various authors (see above), *Sagedia engeliana* was not typified on either the thallus forming element or the ascomata-producing one so far. The name is herewith typified on the pyrenocarp lichenicolous fungus.

Note 3: An infection with *Dacampia engeliana* usually oppresses the development of ascomata in the *Solorina* species. Therefore *Solorina*-thalli infested by this lichenicolous fungus are often sterile. Healthy *Solorina octospora* or *S. saccata* thalli are commonly found nearby.

28. VII. 2006

leg. J. Hafellner (75387) & L. Muggia, det. J. Hafellner

distributed to: BCN, BR, CANB, GZU, LE, NY, PRM, UPS

193. ***Dactylospora australis*** Triebel & Hertel

in Triebel, Biblioth. Lichenol. 35: 205 (1989).

Host: *Porpidia* spec. (thallus)

Europe, Austria: Steiermark (=Styria), Eastern Alps, Niedere Tauern, Triebener Tauern, Griesmoar Kogel SW of the village Wald am Schoberpaß, ridge exp. to N above the saddle to Himmeleck, 47°25'15"N / 14°36'10"E, c. 1950 m alt., GF 8553/4; low outcrops of micaschist with low content of calcium, on steep rock faces.

Note 1: The type host of *Dactylospora australis* is *Lecidea lygomma*.

20. VIII. 2002 leg. J. Hafellner (59172) & J. Miadlikowska, det. J. Hafellner
distributed to: BR, CANB, GZU, NY, UPS

194. ***Endococcus macrosporus*** (Hepp ex Arnold) Nyl.

in Lamy, Bull. Soc. Bot. France 25: 504 (1878). – Bas.: *Tichothecium macrosporum* Hepp ex Arnold in Verh. K. K. Zool.-Bot. Ges. Wien 18: 960 (1868).

Host: *Rhizocarpon carpaticum* (thallus)

Europe, Austria: Kärnten (=Carinthia), Eastern Alps, Saualpe W above the town Wolfsberg, Forstalpe, Forstofen (height notation 1967) on the E ridge, 46°53'25"N / 14°40'10"E, c. 1955 m alt., GF 9154/1; exposed cliffs of gneiss, on subvertical to overhanging rock faces exposed to the NE.

Note 1: The type host of *Endococcus macrosporus* is *Rhizocarpon alpicola*.

Note 2: The infection causes a gall-like deformation of the host areoles. Therefore many of the host areoles are strongly convex atypical for healthy *Rhizocarpon carpaticum* areoles.

Note 3: *Rhizocarpon carpaticum* is herewith added to the host spectrum of *Endococcus macrosporus*.

13. VI. 2011 leg. J. Hafellner (78934) & A. Hafellner, det. J. Hafellner
distributed to: BR, CANB, GZU, NY, UPS

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195. ***Hainesia xanthoriae*** Brackel **Isotype**

in Ber. Bayer. Bot. Ges. 79: 16 (2009).

Host: *Xanthoria parietina* (thallus, apothecia)

Europe, Germany: Bayern (=Bavaria), Oberpfalz, Kreis Neustadt a. d. Waldnaab, NW of Hardt bei Floß, 49°43'23"N / 12°17'22"E, c. 535 m alt., MTB 6239/4; coppice of elder, on branches of *Sambucus nigra*.

Note 1: *Xanthoriicola physciae* (Kalchbr.) D.Hawksw. is also present on the specimens housed in CANB, GZU, NY and UPS.

26. X. 2007

leg. W. v. Brackel (4566), det. W. v. Brackel

distributed to: BR, CANB, GZU, NY, UPS

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196. ***Lichenoconium lecanorae*** (Jaap) D.Hawksw.

in Bull. Brit. Mus. (Nat. Hist.), Bot. 6(3): 270 (1979). – Bas.: *Coniosporium lecanorae* Jaap in Lindau, Verh. Bot. Vereins Prov. Brandenburg 47: 71 (1906).

Host: *Lecanora polytropa* (apothecia)

Europe, Austria: Steiermark (=Styria), Eastern Alps, Gurktaler Alpen, Turracherhöhe, hills N above of the Turrachsee, ENE above of the hotel Seewirt, 46°55'30"N / 13°52'40"E, c. 1850 m alt.; scattered boulders of Palaeozoic schist in open *Picea abies-Larix decidua-Pinus cembra* forest, on inclined rock faces.

Note 1: The type host of *Lichenoconium lecanorae* is *Lecanora chlorotera*.

27. VII. 2002

leg. J. Hafellner (41805), det. J. Hafellner

distributed to: BR, CANB, GZU, NY, UPS

197. ***Paranectria oropensis*** (Ces.) D.Hawksw. & Piroz.

in Can. J. Bot. 55: 2555 (1977). – Bas.: *Sphaeria Nectria oropensis* Ces. in Rabenhorst, Bot. Zeitung 15: 406 (1857); Rabenhorst, Herb. Mycol., ed. 2, no. 524 (1863). – Syn.: *Nectria oropensis* (Ces.) Tul. & C.Tul. in Sel. Fung. Carp. 3: 95 (1865). – *Ciliomyces oropensis* (Ces. in Rabenh.) Höhn. in Sitzungsber. Akad. Wiss. Wien, Math.-Naturwiss. Kl. 115: 25 (1906).

Host: *Phaeophyscia chloantha* (thallus)

Europe, Austria: Steiermark (=Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, Mühlbacher Kogel c. 5 km NNW of the village Stift Rein, surroundings of Mühlbacher Hütte, 47°10'30"N / 15°15'20"E, c. 995 m alt.; orchard, on bark of *Tilia cordata*.

Note 1: Infections with *Paranectria oropensis* have considerable importance as opener of corticolous lichen synusia leading to a restart of succession. It is herein comparable to *Athelia arachnoidea* (see Hafellner & Obermayer, Herzogia 22: 177–190, 2009).

Note 2: In recent years the bark epiphyte *Phaeophyscia chloantha* has become considerably more frequent and abundant in southeastern Austria and it appears to be one of the species profiting from global warming, namely the milder winters in this area.

8. XII. 2004

leg. J. Hafellner (63892), det. J. Hafellner

distributed to: BR, CANB, GZU, NY, UPS

198. ***Polycoccum microsticticum*** (Leight.) Arnold

in Ber. Bayer. Bot. Ges. 1 (Anh.): 132 (1891). – Bas.: *Verrucaria microstictica* Leight. ex Leight. in Lich. Fl. Great Brit., ed. 1: 461 (1871). – Syn.: *Didymosphaeria microstictica* (Leight.) G.Winter in journal volume: page (year). – *Endococcus microsticticus* (Leight.) Arnold in Flora (Regensburg) 57: 141 (1874).

Host: *Acarospora fuscata* (thallus)

Europe, Austria: Steiermark (=Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, Kulmkogel SE above the village St. Jakob-Breitenau, Kerschbaumalm, 47°21'30"N / 15°31'25"E, c. 1350 m alt., GF 8659/1; low outcrops of metadiabas under some scattered *Picea abies* on slope exposed to the S, surrounded by a subalpine pasture, on inclined rock faces.

Note 1: In the protologue the host of type is given as *Acarospora cervina* (sub *Lecanora* c.) but this needs confirmation.

10. XI. 2012

leg. J. Hafellner (81033), det. J. Hafellner

distributed to: BR, CANB, GZU, NY, PRM, UPS

199. *Rhagadostoma lichenicola* (De Not.) Keissl.

in Rabenh. Krypt.-Fl., 2. Aufl. Pilze 8, Flechtenparasiten: 320 (1930). – Bas.: *Bertia lichenicola* De Not. in Erb. Crittog. Ital. no. 1190 (1864).

Host: *Solorina crocea* (thallus)

Europe, Austria: Steiermark (=Styria), Eastern Alps, Seetaler Alpen, Zirbitzkogel massif SW above the town Judenburg, in the cirque Ochsenboden between the mountains Kreiskogel and Scharfes Eck, small ridge SE of the small lakes, 47°04' 50''N / 14°33'25''E, c. 2000 m alt., GF 8953/1; open dwarf shrub communities between cliffs of micoschist, on patches of soil.

Note 1: *Solorina crocea* is the type host of *Rhagadostoma lichenicola*.

Note 2: The genus *Rhagadostoma* is based on *R. corrugatum* Körb., a later heterotypic synonym of *Bertia lichenicola* De Not.

26. VII. 2013

leg. J. Hafellner (82472), det. J. Hafellner
(excursion together with T. Spribille and A. Fryday)

distributed to: BCN, BR, CANB, GZU, NY, PRM, UPS

200. *Unguiculariopsis acrocordiae* (Diederich) Diederich & Etayo

in Lichenologist 32(5): 471 (2000). – Bas.: *Skyttea acrocordiae* Diederich in Lejeunia 119: 12 (1986).

Host: *Acrocordia gemmata* (thallus)

Europe, Austria: Oberösterreich (=Upper Austria), Mühlviertel, Ranna valley SE of Neustift im Mühlkreis, ravine-like southern part, surroundings of the 6th ford c. 0.6 km NE below the castle Rannriedl, 48°29'09''N / 13°46'37''E, c. 330 m alt., GF 7548/2, deciduous forest, on bark of *Fraxinus excelsior*.

Note 1: *Acrocordia gemmata* is the type host of *Unguiculariopsis acrocordiae*.

Note 2: The ascomata and the host thallus partly have been grazed by snails and slugs but some healthy apothecia are present in each duplicate.

21. X. 2014

leg. F. Berger (s.n.), det. F. Berger

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Taxon Synopsis:

Taxon	Exs. no.
Ascomycota	
Arthoniomycetes	
Lecanoromycetes (incl. Ostropomycetidae)	
<i>Cecidonia umbonella</i>	191
<i>Cecidonia xenophona</i>	181
<i>Geltingia associata</i>	184
<i>Phacopsis vulpina</i>	187
<i>Thamnogalla crombiei</i>	190
Leotiomycetes	
<i>Unguiculariopsis acrocordiae</i>	200
Sordariomycetes (incl. Hypocreales)	
<i>Paranectria oropensis</i>	197
<i>Pronectria xanthoriae</i>	188
<i>Rhagadostoma lichenicola</i>	199
Eurotiomycetes (incl. Verrucariales and Mycocaliciales)	
<i>Dactylospora australis</i>	193
<i>Dactylospora saxatilis</i>	182
<i>Endococcus macrosporus</i>	194
<i>Sclerococcum sphaerale</i>	189
Dothideomycetes	
<i>Dacampia engeliana</i>	192
<i>Lichenocodium lecanorae</i>	196
<i>Polycoccum microsticticum</i>	198
Anamorphic Fungi (unclassified)	
Hyphomycetes	
<i>Milospium lacoizquetae</i>	186
<i>Sclerococcum sphaerale</i>	189
Coelomycetes	
<i>Everniicola flexispora</i>	183
<i>Hainesia xanthoriae</i>	195
<i>Lichenocodium lecanorae</i>	196
Basidiomycota	
Agaricomycetes	
<i>Marchandiomyces corallinus</i>	185
Pucciniomycetes	
Tremellomycetes	

Host Index:

Host taxon	Lichenicolous taxon	Exs. no.
<i>Acarospora fuscata</i>	<i>Polycoccum microsticticum</i>	198
<i>Acrocordia gemmata</i>	<i>Unguiculariopsis acrocordiae</i>	200
<i>Aspicilia spec.</i>	<i>Marchandiomyces corallinus</i>	185
<i>Cladonia digitata</i>	<i>Milospium lacoizquetae</i>	186
<i>Lecanora polytropa</i>	<i>Lichenocodium lecanorae</i>	196
<i>Lecidea lapicida</i> ssp. <i>pantherina</i> ...	<i>Cecidonia umbonella</i>	191
<i>Letharia vulpina</i>	<i>Phacopsis vulpina</i>	187
<i>Nephroma arcticum</i>	<i>Everniicola flexispora</i>	183
<i>Pertusaria corallina</i>	<i>Sclerococcum sphaerale</i>	189
<i>Pertusaria flavicans</i>	<i>Dactylospora saxatilis</i>	182
<i>Phaeophyscia chloantha</i>	<i>Paranectria oropensis</i>	197
<i>Porpidia crustulata</i>	<i>Cecidonia xenophona</i>	181
<i>Porpidia spec.</i>	<i>Dactylospora australis</i>	193
<i>Rhizocarpon carpaticum</i>	<i>Endococcus macrosporus</i>	194
<i>Solorina crocea</i>	<i>Rhagadostoma lichenicola</i>	199
<i>Solorina spec.</i>	<i>Dacampia engeliana</i>	192
<i>Thamnolia subuliformis</i>	<i>Thamnogalla crombiei</i>	190
<i>Thamnolia vermicularis</i>	<i>Geltingia associata</i>	184
<i>Xanthoria parietina</i>	<i>Hainesia xanthoriae</i>	195
<i>Xanthoria parietina</i>	<i>Pronectria xanthoriae</i>	188

Geographic Index:

BIOGEOGRAPHIC UNITS (see BRUMMITT 2001)

Country (or Archipelago)	Lichenicolous taxon	Exs. no.
1. EUROPE		
Austria		
	<i>Cecidonia umbonella</i>	191
	<i>Cecidonia xenophona</i>	181
	<i>Dactylospora saxatilis</i>	182
	<i>Dactylospora australis</i>	193
	<i>Endococcus macrosporus</i>	194
	<i>Lichenoconium lecanorae</i>	196
	<i>Phacopsis vulpina</i>	187
	<i>Paranectria oropensis</i>	197
	<i>Polycoccum microsticticum</i>	198
	<i>Rhagadostoma lichenicola</i>	199
	<i>Sclerococcum sphaerale</i>	189
	<i>Thamnogalla crombiei</i>	190
	<i>Unguiculariopsis acrocordiae</i>	200
Czech Republic		
	<i>Marchandiomyces corallinus</i>	185
	<i>Milospium lacoizquetae</i>	186
	<i>Pronectria xanthoriae</i>	188
Germany		
	<i>Hainesia xanthoriae</i>	195
Italy		
	<i>Dacampia engeliana</i>	192
2. AFRICA		
3. ASIA TEMPERATE		
4. ASIA TROPICAL		
5. AUSTRALASIA		
6. PACIFIC		
7. NORTHERN AMERICA		
Canada		
	<i>Geltingia associata</i>	184
U.S.A.		
	<i>Everniicola flexispora</i>	183
8. SOUTHERN AMERICA		
9. ANTARCTIC		

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