

Lichenicolous Biota (Nos 231–250)

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HAFELLNER Josef 2016: Lichenicolous Biota (Nos 231–250). - Fritschiana (Graz) 83: 25–40. - ISSN 1024-0306.

Abstract: The 10th fascicle (20 numbers) of the exsiccata 'Lichenicolous Biota' is published. The issue contains material of 17 non-lichenized fungal taxa (14 teleomorphs of ascomycetes, 1 anamorphic state of ascomycetes, 2 basidiomycetes), including isotype material of *Arthonia parietinaria* Hafellner & A.Fleischhacker (no 231), *Sphaerellothecium siphulae* Zhurb. (no 238), and *Sphaerellothecium thamnoliae* Zhurb. (no 248) as well as paratype material of *Arthonia parietinaria* (no 241, 242, 243). Furthermore, collections of the type species of the following genera are distributed: *Didymocyrtis* (*D. consimilis*), *Karschia* (*K. talcophila*), *Lichenostigma* (*L. maureri*), *Minutoexcipula* (*M. tuckerae*), and *Zwackhiomyces* (*Z. coepulonus*).

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Introduction

The exsiccata 'Lichenicolous Biota' is continued with fascicle 10 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 2015 (onwards) and hosted at New York Botanical Garden <http://sweetgum.nybg.org/science/ih/>). 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 10th issue, I gratefully acknowledge the contribution of 2 collections each by Ralph COMMON, Walter OBERMAYER, and Mikhail ZHURBENKO, furthermore 1 collection each by Damien ERTZ, Roman TÜRK (together with Ulrike RUPRECHT and Ann-Marie ZEIN) and Erich ZIMMERMANN (together with Franz BERGER).

In fieldwork I received support by Lucia MUGGIA and Walter OBERMAYER.

Franz BERGER, Ralph COMMON, Paul DIEDERICH, Damien ERTZ, and Mikhail ZHURBENKO contributed to the scientific content of the fascicle by the identification of either lichenicolous fungi or hosts.

Christian SCHEUER, 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.

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231. *Arthonia parietinaria* Hafellner & A.Fleischhacker Isotype

in Fleischhacker et al., Fungal Biology 120(11): 1343 (2016).

Host: *Xanthoria parietina* (thallus, apothecia)

Europe, Austria: Steiermark (= Styria), Oststeirisches Hügelland, Graz, eastern suburban area, Ragnitztal, near the rivulet 'Ragnitzbach' (= Grazbach) at the lower end of Dr. Hanischweg, 47°04'35"N / 15°28'50"E, c. 380 m alt., GF 8958/2; old orchard, on canopy branches of recently felled *Juglans regia*.

Note 1: Duplicates of paratypes of *Arthonia parietinaria* are distributed under no. 241, 242 and 243.

Note 2: *Teloggalla olivieri* (Vouaux) Nik.Hoffm. & Hafellner is also present on some of the duplicates (e.g. those in GZU and UPS).

Note 3: A strain of *Tremella caloplacae* (Zahlbr.) Diederich agg. is also present on the duplicate sent to the herbarium BR. It is apparently restricted to the hymenia of *Xanthoria parietina* and has not been observed on other members of Teloschistaceae growing nearby.

1. VII. 2010 leg. J. Hafellner (77067) & W. Obermayer, det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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232. *Didymocyrtis ramalinae* (Roberge ex Desm.) Ertz, Diederich & Hafellner

in Ertz et al., Fungal Diversity 74: 77 (2015). – Bas.: *Sphaeria ramalinae* Roberge ex Desm. in Annales des Sciences Naturelles, Botanique, 3. sér., 11: 354 (1849). – Syn.: *Leptosphaeria ramalinae* (Roberge ex Desm.) Sacc. in Sylloge Fungorum 2: 84 (1883). – *Heptameria ramalinae* (Roberge ex Desm.) Cooke in Grevillea 18(86): 33 (1889). – *Phaeospora ramalinae* (Roberge ex Desm.) Vouaux in Bulletin de la Société Mycologique de France 29: 74 (1913).

Host: *Ramalina* spec. (thallus)

Africa, Canary Islands: La Palma, E of El Paso, near the junction of the road to La Cumbrecita, 28°39'10"N / 17°51'20"W, c. 850 m alt., partly abandoned cultivated land, on branches of *Amygdalus communis*.

Note 1: The type host of *Didymocyrtis ramalinae* is *Ramalina fastigiata*.

Note 2: The *Phoma*-like anamorphic state may also be present on some of the duplicates.

1. XII. 1991 leg. J. Hafellner (29536), det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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233. *Didymocyrtis slaptoniensis* (D.Hawksw.) Hafellner & Ertz

in Ertz et al., Fungal Diversity 74: 80 (2015). – Bas.: *Polycoccum slaptoniense* D.Hawksw. in The Lichenologist 26(4): 342 (1994).

Host: *Xanthoria parietina* (thallus, apothecia)

Europe, Switzerland: canton Bern, municipality of Wengi, c. 6 km E of Lyss, 0.6 km W of Wengi (c. 0.6 km NE of the pond Golihuebweiher), 47°05'00"N / 07°22'53"E, 484 m alt.; row of trees along a small creek, on branches of recently felled *Fraxinus excelsior*.

Note 1: *Xanthoria parietina* is the type host of *Didymocyrtis slaptoniensis*.

Note 2: The *Phoma*-like anamorphic state may also be present on some of the duplicates.

25. X. 2014 leg. F. Berger & E. Zimmermann, det. F. Berger

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

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**234. *Heterocephalacria bachmannii* (Diederich & M.S.Christ.)
Millanes & Wedin**

in Liu et al., Studies in Mycology 81: 120 (2015). – Bas.: *Syzygospora bachmannii* Diederich & M.S.Christ. in Diederich, Bibliotheca Lichenologica 61: 30 (1996).

Host: *Cladonia pyxidata* agg. (podetia)

Europe, Austria: Steiermark (= Styria), Eastern Alps, Niedere Tauern, Wölzer Tauern, Eselsberggraben NW of Oberwölz, valley head c. 0.75 km W of the Neunkirchner Hütte, lowermost N slopes of Rettlkirchspitze, below a prominent cliff of marble in open *Larix decidua*-*Pinus cembra*-forest, 47°16'30"N / 14°08'25"E, c. 1580 m alt., GF 8750/2, large boulders of marble with quartzitic veins between dwarf shrubs and bushes of *Alnus alnobetula*, over bryophytes and plant debris overlaying the boulders.

Note: The type host of *Heterocephalacria bachmannii* is *Cladonia subrangiformis*.

12. VII. 2003 leg. J. Hafellner (73958), det. P. Diederich

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

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235. *Karschia talcophila* (Ach.) Körb.

in *Parerga lichenologica*: 460 (1865). – Bas.: *Lecidea talcophila* Ach. in *Lichenographia Universalis*: 183 (1810). – Syn.: *Buellia talcophila* (Ach.) Körb. in *Systema lichenum Germaniae*: 230 (1855). – *Abrothallus talcophilus* (Ach.) A.Massal. in *Miscellanea lichenologica*: 42 (1856). – *Poetschia talcophila* (Ach.) Stein in Cohn, *Kryptogamen-Flora von Schlesien* 2(2): 223 (1879).

Host: *Diploschistes scuposus* (thallus, apothecia)

Europe, Austria: Salzburg, Eastern Alps, Hohe Tauern, Glockner group, near the village Ferleiten, 47°09'52"N / 12°48'54"E, c. 1170 m alt., GF 8842/2, pasture with scattered boulders, on boulder of mica schist.

Note 1: *Diploschistes scuposus* is the type host of *Karschia talcophila*. *Karschia talcophila* is the type species of the genus *Karschia*.

Note 2: *Lichenothelia rugosa* (G.Thor) Ertz & Diederich may also be present. Its presence has been confirmed for the specimen in GZU.

27. VI. 2016 leg. R. Türk (56406), U. Ruprecht & A.-M. Zein, det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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236. *Lichenostigma maureri* Hafellner

in *Herzogia* 6: 301 (1982). – Syn.: *Phaeosporobolus usneae* D.Hawksw. & Hafellner in *Nova Hedwigia* 43(3–4): 526 (1986) [anamorphic state].

Host: *Letharia vulpina* (thallus)

North America, U.S.A.: California, Siskiyou County, 6 miles W of Gazelle, 41°31'23"N / 122°39'11"W, c. 1220 m alt., pine forest, on bark of *Pinus* spec.

Note 1: The type host of *Lichenostigma maureri* is a taxon of the *Usnea rigida*-group (named *Usnea florida* in the protologue). *Lichenostigma maureri* is the type species of the genus *Lichenostigma*.

Note 2: The conspecificity of the teleomorph *Lichenostigma maureri* and the anamorph *Phaeosporobolus usneae* has been proven by sequence data (Ertz et al., *Fungal Diversity* 66: 113–137, 2014).

Note 3: All specimens contain both the teleomorphic and anamorphic states, but either the teleomorph or the anamorph may be dominant on individual host thalli.

Note 4: Habitat and phorophyte were taken from Google Earth. The first name of the collector was not indicated.

8. X. 2010 leg. Miller (s.n.) [sent by R. Common], det. P. Diederich
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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237. *Minutoexcipula tuckerae* V. Atienza & D. Hawksw.

in Mycological Research 98(5): 587 (1994).

Host: *Pertusaria epixantha* (thallus)

North America, U.S.A.: Florida, Pasco County, Zephyrhills, Fairlawns Ave., 28°14'54"N / 82°11'33"W, c. 30 m alt., roadside trees, on twigs of *Lagerstroemia* spec.

Note 1: The type host of *Minutoexcipula tuckerae* is *Pertusaria texana*.

Note 2: *Minutoexcipula tuckerae* is the type species of the genus *Minutoexcipula*.

29. I. 2014 leg. R. Common (9623), det. P. Diederich
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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238. *Sphaerellothecium siphulae* Zhurb. Isotype

in Nova Hedwigia 101(3–4): 420 (2015).

Host: *Siphula ceratites* (thallus)

Europe, Russia: Murmansk Region, Kola Peninsula, Barents Sea coast, mouth of Olenka river 17 km ENE of Dal'nie Zelentsy settlement, 69°02'N / 36°24'E, c. 50 m alt., stony terrace with puddles, dwarf shrub-bryophyte-lichen tundra, on soil.

Note: Like in other species of *Sphaerellothecium*, the development of the superficial pigmented hyphae is somewhat variable among the infested thalli. Nevertheless the pattern of these hyphae can be used as a phenotypic character (compare ZHURBENKO, Nova Hedwigia 101: 422, 2015).

5. IX. 1997 leg. M. P. Zhurbenko (97398), det. M. P. Zhurbenko
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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239. *Unguiculariopsis lettaui* (Grumann) Coppins

in Notes from the Royal Botanical Garden Edinburgh 46: 387 (1990). – Bas.: *Pyrenopeziza lettaui* Grumann in Botanische Jahrbücher 80: 140 (1960). – Syn.: *Skyttea lettaui* (Grumann) D.Hawksw. in Notes from the Royal Botanical Garden Edinburgh 40: 396 (1982).

Host: *Evernia prunastri* (thallus)

Europe, France: Dépt. Bouches-du-Rhône, E of Aix-en-Provence, NE of Vauvenargues, on eastern side of the road D11, 43°34'08"N / 05°37'06"E, 537 m alt., evergreen broad-leafed woodland, on dead branches of *Quercus* spec.

Note: *Evernia prunastri* is the type host of *Unguiculariopsis lettaui*.

24. VIII. 2014

leg. D. Ertz (19266), det. D. Ertz

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

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240. *Zwackhiomyces coepulonus* (Norman) Grube & R.Sant.

in Grube & Hafellner, Nova Hedwigia 51(3–4): 310 (1990). – Bas.: *Arthopyrenia coepulona* Norman in Botaniska Notiser 1868: 192 (1869).

Host: *Xanthoria elegans* (apothecia, thallus)

Europe, Austria: Steiermark (= Styria), Eastern Alps, Central Alps, Niedere Tauern, Schladminger Tauern, Steirische Kalkspitze, W above the refuge Giglachseehütte, slope exposed to NE between Preuneggsattel and Akarscharte, 47°16'50"N / 13°38'05"E, c. 2050 m alt., GF 8747/2; schisted limestone outcrops in alpine vegetation, on inclined rock faces.

Note 1: *Xanthoria elegans* is the type host of this species.

Note 2: *Zwackhiomyces coepulonus* is the type species of the genus *Zwackhiomyces*.

Note 3: A strain of *Muellerella pygmaea* may also be present on the duplicates (as seen on the specimen in GZU). Whereas the ascomata of *Zwackhiomyces coepulonus* are grouped predominantly on the apothecial discs, those of *Muellerella pygmaea* develop preferably on the apothecial margins and the thallus.

27. VIII. 2001

leg. W. Obermayer (13627), det. J. Hafellner

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

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241. *Arthonia parietinaria* Hafellner & A.Fleischhacker Paratype

in Fleischhacker et al., Fungal Biology 120(11): 1343 (2016).

Host: *Xanthoria parietina* (thallus, apothecia)

Europe, Austria: Kärnten (= Carinthia), Eastern Alps, Central Alps, Saualpe W of the town Wolfsberg, c. 1 km W of the village St. Michael by the road to Lading, 46°50'05"N / 14°47'10"E, c. 550 m alt., GF 9154/4, orchard in a pasture, on branches of *Juglans regia* recently fallen to the ground.

Note 1: Isotypes of *Arthonia parietinaria* are distributed under no. 231.

25. XII. 2010

leg. J. Hafellner (76737), det. J. Hafellner

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

Hafellner J. 2016: Lichenicolous Biota (Nos 231–250). - Fritschiana 83: 25–40.

242. *Arthonia parietinaria* Hafellner & A.Fleischhacker Paratype

in Fleischhacker et al., Fungal Biology 120(11): 1343 (2016).

Host: *Xanthoria parietina* (thallus, apothecia)

Europe, Austria: Steiermark (= Styria), Oststeirisches Riedelland, 7 km NE of the centre of Graz, along the road from Stifting to Schaftal, close to the junction to Schillingsdorf, 47°06'09"N / 15°30'42"E, c. 435 m alt., GF 8859/3; fruit trees in a meadow by the road, on twigs of *Pyrus communis*.

Note 1: Isotypes of *Arthonia parietinaria* are distributed under no. 231.

Note 2: *Teloggalla olivieri* is also present on some of the duplicates (e.g. those in GZU, UPS).

18. V. 2010

leg. W. Obermayer (11931), det. J. Hafellner

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

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243. *Arthonia parietinaria* Hafellner & A.Fleischhacker Paratype

in Fleischhacker et al., Fungal Biology 120(11): 1343 (2016).

Host: *Xanthoria parietina* (thallus, apothecia)

Europe, Slovenia: Southern Alps, Julian Alps, Cezsoča S of Bovec, SE above the village, 46°19'10"N / 13°33'20"E, c. 380 m alt.; solitary trees along the roadside, on branches in the lower canopy of *Juglans regia*.

Note: Isotypes of *Arthonia parietinaria* are distributed under no. 231.

4. VII. 2003 leg. J. Hafellner (77510), det. J. Hafellner
distributed to: BR, CANB, E, GZU, NY, PRM, UPS

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244. *Arthonia molendoi* (Heufl. ex Frauenf.) R.Sant.

in Thunbergia 3: 2 (1986). – Bas.: *Tichothecium molendoi* Heufl. ex Frauenf. [as note to] Arnold, Verhandlungen der K.-K. Zoologisch-Botanischen Gesellschaft in Wien 14: 462 (1864).

Host: *Caloplaca arnoldiiconfusa* (thallus, apothecia)

Europe, Austria: Steiermark (= Styria), Eastern Alps, Northern Limestone Alps, Ennstaler Alpen, Gesäuseberge S of Admont, Hahnstein, 47°32'55"N / 14°29'20"E, c. 1690 m alt., GF 8452/4; summit area, cliffs of Triassic limestone, on steep rock faces exposed to the S.

Note: The type host of *Arthonia molendoi* is *Xanthoria elegans* (named *Physcia pusilla* in the protologue).

29. VII. 2007 leg. J. Hafellner (68836) & L. Muggia, det. J. Hafellner
distributed to: BR, CANB, E, GZU, NY, PRM, UPS

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

in Geneacaena Lichenum: 22 (1854) (as '*Dacampia Engelim*'). – Bas.: *Sagedia engeliana* Saut. in Botanisches Centralblatt 20: 406 (1846). – Syn.: *Xenosphaeria engeliana* (Saut.) Trevis. in Conspectus Verrucarinarum: 18 (1860). – *Pleospora engeliana* (Saut.) G.Winter in Rabenhorst, Kryptogamen-Flora von Deutschland, Österreich und der Schweiz, 2. ed., 1(2): 493 (1885). – *Polyblastia engeliana* (Saut.) H.Olivier in Bulletin de l'Académie Internationale de Géographie Botanique, sér. 3, 16: 258 (1906).

Host: *Solorina* spec. (thallus)

Europe, France: Rhône-Alpes, Dépt. Haute-Savoie, Western Alps, Mont Blanc group, Col de Tricot SE above of Bionnassay, SE above the saddle at the lowermost cliffs of W ridge of Pointe Inférieure de Tricot, 45°51'00"N / 6°46'15"E, c. 2160 m alt., low cliffs of siliceous rocks with veins of calcareous schist, exposed to NW, on soil.

Note 1: The species was originally described as a lichen, not recognizing that the fungus forming perithecioid ascomata is lichenicolous on a *Solorina* thallus.

Note 2: The infection of *Solorina* thalli by *Dacampia engeliana* suppresses the development of apothecia. Healthy thalli nearby were assigned to *Solorina octospora*.

20. VIII. 2011

leg. J. Hafellner (83000), det. J. Hafellner

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

246. *Didymocyrtis bryonthae* (Arnold) Hafellner

in Ertz et al., Fungal Diversity 74: 66 (2015). – Bas.: *Endococcus bryonthae* Arnold in Flora (Regensburg) 57: 141 (1874). – Syn.: *Didymosphaeria bryonthae* (Arnold) G.Winter in Rabenhorst, Kryptogamen-Flora von Deutschland, Österreich und der Schweiz, 2. ed., 1(2): 430 (1885). – *Didymosphaerella bryonthae* (Arnold) Cooke in Grevillea 18 (86): 29 (1889). – *Microthelia bryonthae* (Arnold) Kuntze in Revisio Generum Plantarum 3: 498 (1898). – *Mycoporum bryonthae* (Arnold) Jatta in Sylloge Lichenum Italicorum: 494 (1900). – *Polycoccum bryonthae* (Arnold) Vězda in Česká Mykologie 23(2): 109 (1969).

Host: *Lecanora epibryon* (apothecia)

Europe, Austria: Steiermark (= Styria), Eastern Alps, Central Alps, Niedere Tauern, Wölzer Tauern, mountains ca. 8 km WNW of the village Pusterwald, Kleinhansl, ridge exposed to the E, WSW above of the refuge Wildalmhütte, 47°19'25"N / 14°16'30"E, c. 2100 m alt., GF 8651/4, low outcrops of calcareous schist on the crest, on plant remnants.

Note 1: *Lecanora epibryon* is the type host of *Didymocyrtis bryonthae*.

Note 2: The epithet refers to *Lecanora bryontha*, a heterotypic synonym of *Lecanora epibryon*, and not to *Pertusaria bryontha* as believed by various authors.

25. VIII. 2005

leg. J. Hafellner (76495), det. J. Hafellner

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

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247. *Didymocyrtis consimilis* Vain.

in Acta Societatis pro Fauna et Flora Fennica 49(2): 221, 262 (1921). – Syn.: *Phoma caloplacae* D.Hawksw. in Bulletin of the British Museum for Natural History, Botany series, 9(1): 50 (1981) [anamorphic state]. – *Diederichomyces caloplacae* (D.Hawksworth) Crous & Trakun. in Trakunyingcharoen et al., IMA Fungus 5(2): 401 (2014).

Host: *Caloplaca tiroliensis* (apothecia)

Europe, Austria: Steiermark (= Styria), Eastern Alps, Northern Limestone Alps, Ennstaler Alpen, Lugauer SW of Hieflau, western summit, surroundings of the summit cross, 47°33'12"N / 14°43'20"E, c. 2210 m alt., GF 8454/1, limestone cliffs and patches of Caricetum firmae exposed to NW, on plant remnants and bryophytes.

Note 1: *Didymocyrtis consimilis* is the type species of the genus *Didymocyrtis*. The type host of *Didymocyrtis consimilis* is *Caloplaca cerina*.

Note 2: The conspecificity of the teleomorph *Didymocyrtis consimilis* and the anamorph *Phoma caloplacae* has been proven by sequence data (Ertz et al., Fungal Diversity 74: 53–89, 2015).

Note 3: The anamorphic state may also be present on the distributed duplicates, as seen on the specimen in GZU.

3. VII. 2005

leg. J. Hafellner (69590), det. J. Hafellner

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

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248. *Sphaerellothecium thamnoliae* Zhurb. Isotype

[var. *thamnoliae*]

in The Lichenologist 44(2): 164 (2012).

Host: *Thamnolia subuliformis* (thallus)

North America, U. S. A.: Alaska, [Northwest Arctic Borough], Kobuk Valley Wilderness, junction of Kobuk River and Kavet Creek, 67°07'N / 159°03'W, c. 50 m alt., *Dryas*-lichen-moss vegetation among sparse *Picea glauca*, on the ground.

Note: Like in other species of *Sphaerellothecium*, the development of the superficial pigmented hyphae is somewhat variable among the infested thalli. Nevertheless the pattern of these hyphae can be used as a phenotypic character (compare, e.g. ZHURBENKO, Nova Hedwigia 101: 422, 2015).

13. VIII. 2000

leg. M. Zhurbenko (00212), det. M. Zhurbenko

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

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249. ***Stigmatidium cerinae*** Cl.Roux & Triebel

in Bulletin de la Société Linnéenne de Provence 45: 480 (1994).

Host: *Caloplaca stillicidiorum* (apothecia)

Europe, Austria: Kärnten (= Carinthia), Eastern Alps, Central Alps, Steirisches Randgebirge, Koralpe E of Wolfsberg, Steinschneider, ridge gently inclined to the W, below the radio station, 46°47'48"N / 14°57'13"E, c. 1980 m alt., GF 9255/2, low marble outcrops in alpine meadows, on plant remnants and bryophytes.

Note: *Caloplaca stillicidiorum* (named *Caloplaca cerina* var. *chloroleuca* in the protologue) is the type host of *Stigmatidium cerinae*.

11. VI. 2009

leg. J. Hafellner (75199), det. J. Hafellner

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

Hafellner J. 2016: Lichenicolous Biota (Nos 231–250). - Fritschiana 83: 25–40.

250. ***Tremella cladoniae*** Diederich & M.S.Christ.

in Diederich, Bibliotheca Lichenologica 61: 65 (1996).

Host: *Cladonia pyxidata* agg. (podetia)

Europe, Austria: Steiermark (Styria), Eastern Alps, Northern Limestone Alps, Ennstaler Alpen, Haller Mauern, in the valley Eßlingbach Graben c. 6,5 km N of Admont, along the road from Mühlau to the saddle Pyhrgasgatterl, 47°37'45"N / 14°26'10"E, c. 760 m alt., GF 8352/4, mixed forest in the bottom of the valley, on plant remnants over small boulders of limestone.

Note: The type host of *Tremella cladoniae* is an unnamed *Cladonia*.

28. X. 2007

leg. J. Hafellner (69461) & L. Muggia, det. P. Diederich

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

Taxon Synopsis:

Taxon	Exs. no.
Ascomycota	
Arthoniomycetes	
<i>Arthonia molendoi</i>	244
<i>Arthonia parietinaria</i>	231, 241, 242, 243
<i>Lichenostigma maureri</i>	236
Lecanoromycetes (incl. Ostropomycetidae)	
Leotiomycetes	
<i>Unguiculariopsis lettaui</i>	239
Sordariomycetes (incl. Hypocreales)	
Eurotiomycetes (incl. Verrucariales and Mycocaliciales)	
Dothideomycetes	
<i>Dacampia engeliana</i>	245
<i>Didymocyrtis bryonthae</i>	246
<i>Didymocyrtis consimilis</i>	247
<i>Didymocyrtis ramalinae</i>	232
<i>Didymocyrtis slaptoniensis</i>	233
<i>Karschia talcophila</i>	235
<i>Sphaerellothecium siphulae</i>	238
<i>Sphaerellothecium thamnoliae</i>	248
<i>Stigmatidium cerinae</i>	249
<i>Zwackhiomyces coepulonus</i>	240
Anamorphic Fungi (unclassified)	
Hyphomycetes	
<i>Minutoexcipula tuckerae</i>	237
Coelomycetes	
Basidiomycota	
Agaricomycetes	
Pucciniomycetes	
Tremellomycetes	
<i>Heterocephalacria bachmannii</i>	234
<i>Tremella cladoniae</i>	250

Host Index:

Host taxon	Lichenicolous taxon	Exs. no.
<i>Caloplaca arnoldiiconfusa</i>	<i>Arthonia molendoi</i>	244
<i>Caloplaca stillicidiorum</i>	<i>Stigmidium cerinae</i>	249
<i>Caloplaca tirolensis</i>	<i>Didymocyrtis consimilis</i>	247
<i>Cladonia pyxidata</i>	<i>Heterocephalacria bachmannii</i>	234
<i>Cladonia pyxidata</i>	<i>Tremella cladoniae</i>	250
<i>Diploschistes scruposus</i>	<i>Karschia talcophila</i>	235
<i>Evernia prunastri</i>	<i>Unguiculariopsis lettaui</i>	239
<i>Lecanora epibryon</i>	<i>Didymocyrtis bryonthae</i>	246
<i>Letharia vulpina</i>	<i>Lichenostigma maureri</i>	236
<i>Pertusaria epixantha</i>	<i>Minutoexcipula tuckerae</i>	237
<i>Ramalina spec.</i>	<i>Didymocyrtis ramalinae</i>	232
<i>Solorina spec.</i>	<i>Dacampia engeliana</i>	245
<i>Siphula ceratites</i>	<i>Sphaerellothecium siphulae</i>	238
<i>Thamnolia subuliformis</i>	<i>Sphaerellothecium thamnoliae</i>	248
<i>Xanthoria elegans</i>	<i>Zwackhiomyces coepulonus</i>	240
<i>Xanthoria parietina</i>	<i>Arthonia parietinaria</i>	231, 241, 242, 243
<i>Xanthoria parietina</i>	<i>Didymocyrtis slaptoniensis</i>	233

Geographic Index:

BIOGEOGRAPHIC UNITS (see BRUMMITT 2001)

Country (or Archipelago)	Lichenicolous taxon	Exs. no.
1. EUROPE		
Austria.....	<i>Arthonia molendoi</i>	244
	<i>Arthonia parietinaria</i>	231, 241, 242
	<i>Didymocyrtis bryonthae</i>	246
	<i>Didymocyrtis consimilis</i>	247
	<i>Heterocephalacria bachmannii</i>	234
	<i>Karschia talcophila</i>	235
	<i>Stigmidium cerinae</i>	249
	<i>Tremella cladoniae</i>	250
	<i>Zwackhiomyces coepulonus</i>	240
France.....	<i>Dacampia engeliana</i>	245
	<i>Unguiculariopsis lettaui</i>	239
Russia.....	<i>Sphaerellothecium siphulae</i>	238
Slovenia.....	<i>Arthonia parietinaria</i>	243
Switzerland.....	<i>Didymocyrtis slaptoniensis</i>	233
2. AFRICA		
Canary Islands (belonging to Spain)		
	<i>Didymocyrtis ramalinae</i>	232
3. ASIA TEMPERATE		
4. ASIA TROPICAL		
5. AUSTRALASIA		
6. PACIFIC		
7. NORTHERN AMERICA		
U.S.A.....	<i>Lichenostigma maureri</i>	236
	<i>Minutoexcipula tuckerae</i>	237
	<i>Sphaerellothecium thamnoliae</i>	248
8. SOUTHERN AMERICA		
9. ANTARCTIC		

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