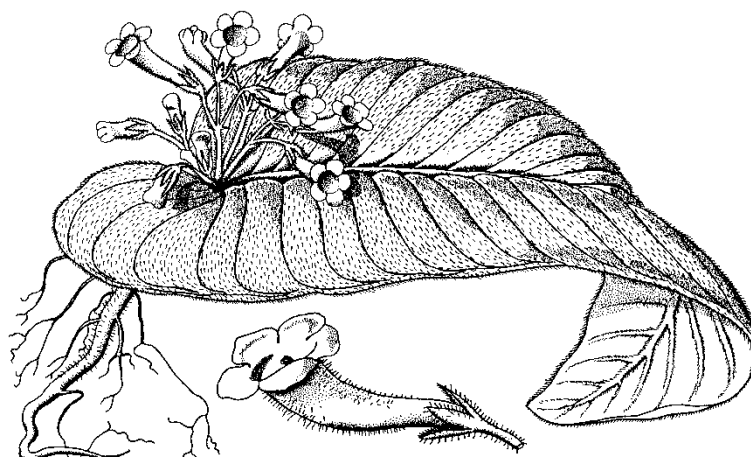


# FRITSCHIANA

74



Veröffentlichungen aus dem  
Institut für Pflanzenwissenschaften  
der Karl-Franzens-Universität Graz

Josef HAFELLNER

**Lichenicolous Biota (Nos 101–120)**

**Lichenicolous Biota (Nos 121–150)**

Walter OBERMAYER

**Lichenotheca Graecensis, Fasc. 21 (Nos 401–420)**

Jan VONDRÁK

**Selected exsiccates of *Caloplaca*, Fasc. 3 (Nos 51–75)**

Graz, 10. Dezember 2012

**Hofrat Prof. Dr. Karl FRITSCH**  
(\* 24.2.1864 in Wien, † 17.1.1934 in Graz)

Karl FRITSCH studierte nach einem Jahr in Innsbruck an der Universität Wien Botanik und wurde dort 1886 zum Dr.phil. promoviert; 1890 habilitierte er sich. Nach Anstellungen in Wien wurde FRITSCH 1900 als Professor für Systematische Botanik an die Universität Graz berufen, wo er aus bescheidenen Anfängen ein Institut aufbaute. 1910 wurde er Direktor des Botanischen Gartens, 1916 wurde das neu errichtete Institutsgebäude bezogen. Aus der sehr breiten wissenschaftlichen Tätigkeit sind vor allem drei Schwerpunkte hervorzuheben: Floristisch-systematische Studien, besonders zur Flora von Österreich, monographische Arbeiten (besonders über *Gesneriaceae*) und Arbeiten zur systematischen Stellung und Gliederung der Monocotylen. An Kryptogamen interessierten ihn besonders Pilze und Myxomyceten.

Nachrufe: KNOLL F. 1934: Karl Fritsch. - Berichte der Deutschen Botanischen Gesellschaft 51: (157)–(184) [mit Schriftenverzeichnis]. - KUBART B. 1935: Karl Fritsch. - Mitteilungen des Naturwissenschaftlichen Vereins für Steiermark 71: 5–15 [mit Porträt]. - TEPPNER H. 1997: Faszination versunkener Pflanzenwelten. Constantin von Ettingshausen - ein Forscherportrait. - Mitteilungen Geologie und Paläontologie am Landesmuseum Joanneum 55: 133–136. - Im übrigen vgl. STAFLEU F.A. & COWAN R.S. 1976, Taxonomic Literature 1: 892 und BARNHART J.H. 1965: Biographical Notes upon Botanists 2: 12.

Graz, November 1997

Herwig TEPPNER

Die Serie FRITSCHIANA wurde als Publikationsorgan für die zahlreichen Aktivitäten im Zusammenhang mit der botanischen Sammlung des Institutes für Pflanzenwissenschaften, Bereich Systematische Botanik und Geobotanik (vormals Institut für Botanik), der Karl-Franzens-Universität Graz (GZU) gegründet. Vor allem Schedae-Hefte der von den Mitarbeitern herausgegebenen Exsiccatenwerke sollten hier erscheinen, aber auch Exkursionsberichte sowie Listen und Indices besonders wertvoller Bestände in GZU. Das Spektrum wurde mittlerweile auf floristische und kleinere taxonomische Arbeiten (zwischenzeitlich auch auf das Samentauschverzeichnis des Botanischen Gartens) ausgeweitet. Die Schedae-Hefte des von Prof. Dr. Josef POELT begründeten, inzwischen abgeschlossenen Exsiccatenwerkes *Plantae Graecenses* sind die Vorläufer dieser Schriftenreihe.

Gesamtredaktion:

Dr. Christian SCHEUER, Mag. Dr. Walter OBERMAYER  
Karl-Franzens-Universität Graz, Institut für Pflanzenwissenschaften  
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Umschlagsbild: *Carolfritschia diandra* ENGL. (= *Acanthonema strigosum* HOOK.f.); nach einer Zeichnung in HUTCHINSON, J. & HEPPER, F.N. 1963, *Flora of West Tropical Africa*, Ed. 2, Vol. II: 382.

# FRITSCHIANA

**Veröffentlichungen aus dem  
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# Lichenicolous Biota (Nos 101–120)

Josef HAFELLNER\*

HAFELLNER J. 2012: Lichenicolous Biota (Nos 101–120). – Fritschiana (Graz) 74: 1–17. - ISSN 1024-0306.

**Abstract:** The fifth fascicle (20 numbers) of the exsiccata “Lichenicolous Biota” is published. The issue contains material of 20 non-lichenized fungal taxa (14 ascomycetes [admixtures not counted], 1 basidiomycete, 5 anamorphic fungi). The fascicle includes isotype material of *Opegrapha hellespontica* Vondrák & Kocourk. (no. 106) and collections of the type species of *Asterothoma* (*A. mazaediicola*), *Lichenosticta* (*L. alcicornaria*), *Micrococalium* (*M. disseminatum*), *Nesolechia* (*N. oxyspora*), *Nigropuncta* (*N. rugulosa*), *Phacothecium* (*P. varium*), *Teloggalla* (*T. olivieri*), and *Xanthoriicola* (*X. physciae*).

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## Introduction

The exsiccata “Lichenicolous Biota” is continued with fascicle 5 containing 20 numbers.

The exsiccata covers all lichenicolous biota, i.e. it is open 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], Munich [M], Prague [PRM], and St. Petersburg [LE] (herbarium acronyms sec. HOLMGREN et al. 1990, continued and updated as electronic database by THIERS 2011, onwards and hosted at New York Botanical Garden <http://sciweb.nybg.org/science2/IndexHerbariorum.asp>). It is planned to publish at least one fascicle per year, consisting of a variable number of decades.

For the 5<sup>th</sup> issue, I gratefully acknowledge the contribution of 1 collection each by Rainer Cezanne and Marion Eichler, Walter Obermayer, and Jan Vondrák. In fieldwork I received support by Angela Hafellner, Lucia Muggia, Walter Obermayer, and Regine Stordeur. Rainer Cezanne, Marion Eichler, Bettina Heuchert and Jan Vondrák 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.

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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**101. *Abrothallus parmeliarum* (Sommerf.) Nyl.**

in Bull. Soc. Linn. Normandie, 2<sup>e</sup> sér., 3: 12 (1869). – Bas.: *Lecidea parmeliarum* („*parmeliarum*“) Sommerf. in Suppl. Fl. Lappon.: 176 (1826). – Syn.: *Buellia parmeliarum* (Sommerf.) Tuck. in Synopsis North American Lichens 2: 106 (1888). – *Buelliella parmeliarum* (Sommerf.) Fink in Lichen Fl. United States: 372 (1935).

Host: *Parmelia saxatilis* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, Burgstaller Höhe NNE of the village St. Radegund, southern edge of the plateau c. 1.5 km W above the village Garrach, 47°13'10"N / 15°30'55"E, c. 1050 m alt., mixed deciduous forest above the SW-facing limestone cliffs, on bark of *Fagus sylvatica*.

Note: Two species of *Parmelia* s. str. (*Parmelia omphalodes* and *P. saxatilis*) are mentioned in the protologue as host species. A lectotype has not been designated so far.

5. XI. 2011

leg. J. Hafellner (79012), det. J. Hafellner

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

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**102. *Asterophoma mazaediicola* D.Hawksw.**

in Bull. Brit. Mus. (Nat. Hist.), Bot. ser., 9(1): 8 (1981).

Host: *Calicium trabinellum* (apothecia)

**Europe, Austria:** Kärnten (Carinthia), Eastern Alps, Steirisches Randgebirge, Koralpe NE of the town Wolfsberg, by the trail from the refuge Stoffhütte to the mountain Bäröfen, 46°53'15"N / 15°00'50"E, c. 1560 m alt., GF 9156/1, coniferous forest on gentle slope exposed to the N, on rotting stumps.

Note 1: *Calicium trabinellum* is the type host of *Asterophoma mazaediicola*.

Note 2: *Asterophoma mazaediicola* is likely to represent an anamorphic state of a *Chaenothecopsis* species (see Tibell, Can. J. Bot. 69: 2427–2433, 1991).

25. VI. 2006

leg. J. Hafellner (70768) & L. Muggia, det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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103. *Lichenosticta alcicornaria* (Linds.) D.Hawksw.

in Hawksworth et al., Lichenologist 12(1): 107 (1980). – Bas.: *Microthelia alcicornaria* Linds. in Q. J. Microsc. Sci., n. s., 9: 349 (1869). – Syn.: *Dendrophoma alcicornaria* (Linds.) Vouaux in Bull. Soc. Mycol. France 30: 283 (1914).

Host: *Cladonia coniocraea* (thallus)

**Europe, Austria:** Kärnten (Carinthia), Eastern Alps, Steirisches Randgebirge, Koralpe NE of the town Wolfsberg, by the trail from the refuge Stoffhütte to the mountain Bärenfen, 46°53'15"N / 15°00'50"E, c. 1560 m alt., GF 9156/1, coniferous forest on gentle slope exposed to the N, on rotting stumps.

Note 1: The type host of *Lichenosticta alcicornaria* is *Cladonia foliacea* (sub *C. alcicornis*).

Note 2: The genus *Lichenosticta* is based on *L. podeticicola* Zopf, a later heterotypic synonym of *Microthelia alcicornaria* Linds.

25. VI. 2006 leg. J. Hafellner (70769) & L. Muggia, det. J. Hafellner  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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104. *Lichenostigma rugosa* G.Thor

in Lichenologist 17: 269 (1985).

Host: *Diploschistes scruposus* (thallus, apothecia)

**Europe, Slovenia:** Eastern Alps, Kobansko, Koralpe, mountain top ('Jantschkifels') 7.6 km NE above the town Dravograd (Unterdrauburg), W above the chapel Sv. Urban, uppermost slopes exposed to the S just below the summit close to the border to Austria, 46°39'08"N / 15°03'49"E, c. 1360 m alt.; scattered boulders of garnet schist on clearings in the spruce forest, on inclined rock faces of the boulders.

Note: The type host of *Lichenostigma rugosa* is a *Diploschistes* only determined to genus level.

20. VII. 2008 leg. J. Hafellner (71502), det. J. Hafellner  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS



Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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**105. *Microcalicium arenarium* (Hampe ex A.Massal.) Tibell**

in Bot. Notiser 131: 237 (1978). – Bas.: *Cyphelium arenarium* Hampe ex A.Massal. in Miscell. Lich.: 50 [20] (1856). – Syn.: *Phacotium arenarium* (Hampe ex A.Massal.) Trevis. in Flora (Regensburg) 45: 5 (1862). – *Coniocybopsis arenaria* (Hampe ex A.Massal.) Vain. in Acta Soc. Fauna Flora Fenn. 57(1): 75 (1927). – *Caliciella arenaria* (Hampe ex A.Massal.) Fink in Lichen Fl. United States: 72 (1935).

Host: *Psilolechia lucida* (thallus)

**Europe, Slovenia:** Eastern Alps, Kobansko, Koralpe, Bistrica (Feistritz) valley c. 9.5 km NW of Muta (Hohenmauthen), by the trail along the S (= orographically right) river bank opposite to the Austrian customs hut, 46°39'19"N / 15°07'07"E, c. 470 m alt., outcrops of soft schist exposed to the N in deciduous forest, on overhanging rock faces.

Note 1: The species originally was not recognized as being lichenicolous or algicolous.

Note 2: There is no indication that the diagnosis of the species was provided by Hampe. Therefore the name has to be attributed to the author of the publication (ICBN Art. 46.2).

Note 3: For lectotypification and heterotypic synonyms see Tibell (Bot. Notiser 131: 237, 1978).

5. X. 2008 leg. J. Hafellner (72207) & L. Muggia, det. J. Hafellner  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

**106. *Opegrapha hellespontica* Vondrák & Kocourk. Isotype**

in Lichenologist 40: 175 (2008).

Host: *Caloplaca aurantia* (thallus)

**Europe, Turkey:** Çanakkale Prov., Eastern Thrace, Gallipoli Peninsula (Gelibolu yarımadası), coast of Dardanelles, 1 km NE of Abide monument, 40°03'12.27"N / 26°13'41.24"E, c. 5 m alt.; SE-exposed coastal limestone cliffs.

Note: Vondrák & Kocourková (l.c.) announced that isotypes will be distributed in Obermayer, Lichenotheca Graecensis. However, the material offered for distribution was too scarce to prepare enough duplicates for that exsiccata.

11. IV. 2007 leg. J. Vondrák, det. J. Vondrák  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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### 107. *Phacothecium varium* (Tul.) Trevis.

in Linnaea 27: 298 (1856). – Bas.: *Phacopsis varia* Tul. in Ann. Sci. Nat., Bot., sér. 3., 17: 125 (1852). – Syn.: *Celidium varium* (Tul.) A.Massal. in Miscell. Lich.: 44 [15] (1856). – *Arthonia varia* (Tul.) Jatta in Syll. Lich. Ital.: 471 (1900) non (Ach.) Nyl. (1857). – *Lecidea physciaria* Nyl. in Suppl. Lich. Paris: 8 (1897). – *Leciographa physciaria* (Nyl.) H.Olivier in Bull. Acad. Int. Geogr. Bot. 16: 48 (1906). – *Opegrapha physciaria* (Nyl.) D.Hawksw. & Coppins in Coppins et al., Lichenologist 24: 367 (1992). – *Mycobilimbia xanthorica* Räsänen in Ann. Bot. Soc. Zool.-Bot. Fenn. „Vanamo“ 21, Notul. Bot. 16: 2 (1946).

Host: *Xanthoria parietina* (thallus, apothecia)

**Europe, Albania:** Southern Albania, Vlorë distr., at the coast of the Adriatic Sea NW of the town Vlorë, small island of the monastery “Fjetja e Hyllideses”, on the W coast, 40°31’00”N / 19°24’00”E, c. 10 m alt.; fringe of evergreen bushes, on bark of branches of *Pistacia lentiscus*.

Note 1: *Xanthoria parietina* is the type host of *Phacothecium varium* as well as of *Opegrapha physciaria* and *Mycobilimbia xanthorica*.

Note 2: For a detailed treatment of the species see Hafellner, Biblioth. Lichenol. 100: 94–99 (2009).

21. VIII. 2007 leg. J. Hafellner (71009), det. J. Hafellner  
(excursion together with M. Tretiach, L. Muggia, M. Piccotto & J. Marka)

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

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Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

### 108. *Plectocarpon lichenum* (Sommerf.) D.Hawksw.

in Hawksworth & Galloway, Lichenologist 16: 86 (1984). – Bas.: *Dothidea lichenum* Sommerf. in Suppl. Flor. Lapp.: 224 (1826); Fries, Elenchus Fung. 2: 123 (1828). – Syn.: *Lichenomyces lichenum* (Sommerf.) R.Sant. in Svensk Bot. Tidskr. 54(4): 501 (1960). – *Celidium lichenum* (Sommerf.) J.Schröt. in Cohn, Kryptfl. Schlesien 3(2): 135 (1893).

Host: *Lobaria pulmonaria* (thallus)

**Europe, Albania:** Central Albania, Tiranë distr., on the mountain Dajt E above the town Tiranë, between the restaurant “Panorama” and the saddle Qafa e Qershisë, 41°22’15”N / 19°55’20”E, c. 1100 m alt.; deciduous forest over limestone on slope exposed to the W, on bark of *Acer opalus*.

Note: *Lobaria pulmonaria* is the type host of *Plectocarpon lichenum*.

20. VIII. 2007 leg. J. Hafellner (71008), det. J. Hafellner  
(excursion together with M. Tretiach, L. Muggia, M. Piccotto & J. Marka)

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

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109. ***Teloggalla olivieri*** (Vouaux) Nik.Hoffm. & Hafellner

in Biblioth. Lichenol. 77: 109 (2000). – Bas.: *Laestadia olivieri* Vouaux in Bull. Soc. Mycol. France 28: 216 (1912), nomen novum for *Verrucaria xanthoriae* f. *megaspora* H.Olivier in Princ. Paras. Lich. Fr. Suppl. 1: 14 (1907).

Host: *Xanthoria parietina* (thallus)

**Europe, Switzerland:** Kanton Graubünden, Engadiner Alps, Sesvenna group, San Niclà, c. 12 km NE of Scuol, N of the church close to the orographically right river bank of the Inn, 46°51'30"N / 10°25'35"E, c. 1080 m alt.; remnants of alluvial forest, on bark of isolated *Alnus incana*.

Note: *Xanthoria parietina* is the type host of *Teloggalla olivieri*.

22. VIII. 2006

leg. J. Hafellner (77191), det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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110. ***Xanthoriicola physciae*** (Kalchbr.) D.Hawksw.

in Hawksworth & Punithalingam, Trans. Brit. Mycol. Soc. 61: 67 (1973). – Bas.: *Gymnosporium physciae* Kalchbr. in Math. Termesz. Közlem. 3: 299 (1865). – Syn.: *Coniosporium physciae* (Kalchbr.) Sacc. in Syll. Fung. 4: 246 (1886).

Host: *Xanthoria parietina* (apothecia)

**Europe, Germany:** Hessen, Hessische Rheinebene, SW of Riedstadt-Leeheim, 49°50'35"N / 8°23'50"E, c. 85 m alt., MTB 6116/3; orchard, on twigs of *Malus domestica*.

Note: *Xanthoria parietina* is the type host of *Xanthoriicola physciae*.

Note 2: Ruibal et al. (IMA Fungus 2(1): 97–103, 2011) have shown that the dematiaceous hyphomycete *Xanthoriicola physciae* is likely to be a member of the family *Teratosphaeriaceae* belonging to the *Capnodiales*-Dothideomycetes.

31. X. 2009

leg. R. Cezanne & M. Eichler, det. R. Cezanne & M. Eichler

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

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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### 111. *Carbonea vitellinaria* (Nyl.) Hertel

in Mitt. Bot. Staatssamml. München 19: 442 (1983). – Bas.: *Lecidea vitellinaria* Nyl. in Bot. Notiser 1852: 177 (1852). – Syn.: *Nesolechia vitellinaria* (Nyl.) Rehm in Rabenh. Krypt.-Fl., 2. Aufl. 1(3): 319 (1890). – *Lecidella vitellinaria* (Nyl.) Kremp. in Denkschr. Bayer. Bot. Ges. 4(2): 287 (1861).

Host: *Candelariella vitellina* (thallus)

**Europe, Switzerland:** Kanton Graubünden, Western Alps, Rhaetian Alps, Albula group, Julierpass c. 9 km SW of St. Moritz, short SW of the pass, 46° 28'15"N / 09°43'35"E, c. 2290 m alt.; boulders of siliceous rocks in alpine vegetation, on horizontal to slightly inclined rock faces.

Note: *Candelariella vitellina* is the type host of the species.

23. VIII. 2006 leg. W. Obermayer (12186), det. W. Obermayer  
distributed to: BR, CANB, GZU, NY, UPS

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Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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### 112. *Microcalicium disseminatum* (Ach.) Vain.

in Acta Soc. Fauna Flora Fennica 57(1): 77 (1927). – Bas.: *Cyphelium disseminatum* Ach. in Kungl. Svenska Vetenskapsakad. Handl. 1817: 227 (1817). – Syn.: *Sphinctrina disseminata* (Ach.) Trevis. in Flora (Regensburg) 45: 4 (1862). – *Microcalicium subpedicellatum* (Schaer.) Tibell in Bot. Notiser 131: 240 (1978).

Host: *Chaenotheca trichialis* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Northern Limestone Alps, Ennstaler Alpen, Gesäuseberge E of the town Admont, by the trail from Johnsbach to the refuge Hess-Hütte, short E above the Untere Koderalm, 47°32'45"N / 14°38'35"E, c. 1520 m alt., GF 8453/4; mixed forest rich in coniferous trees, on bark of *Larix decidua*.

Note 1: The species originally was not recognized as being lichenicolous or algicolous..

Note 2: For typifications and further synonyms see Tibell (Bot. Notiser 131: 240–246, 1978).

25. IX. 2005 leg. J. Hafellner (67520), det. J. Hafellner  
distributed to: BR, CANB, GZU, LE, NY, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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113. ***Nesolechia oxyspora*** (Tul.) A.Massal.

in Miscell. Lich.: 43 (1856). – Bas.: *Abrothallus oxysporus* Tul. in Ann. Sci. Nat., Bot., sér. 3, 17: 116 (1852). – Syn.: *Phacopsis oxyspora* (Tul.) Triebel & Rambold in Nova Hedwigia 47: 300 (1988).

Host: *Parmelia sulcata* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Niedere Tauern, Schladminger Tauern, Obertal S of the town Schladming, between Hopfriesen and the inn Tauerngold, 47°19'05"N / 13°41'20"E, c. 1060 m alt., GF 8648/3: riparian forest stripe, on bark of *Alnus incana*.

Note: The host of the lectotype chosen by Triebel et al. (Bryologist 98: 78, 1995) is *Parmelia saxatilis*.

25. VIII. 2001 leg. J. Hafellner (56866), W. Obermayer & R. Stordeur  
det. J. Hafellner

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

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Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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114. ***Nigropuncta rugulosa*** D.Hawksw.

in Bull. Brit. Mus. (Nat. Hist.), Bot. 9(1): 46 (1981).

Host: *Bellemeria cinereorufescens* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Stubalpe, Steinplan c. 8 km SE of the town Knittelfeld, summit area, short S below the summit cross, 47°09'45"N / 14°54'20"E, c. 1660 m alt., GF 8855/1; outcrops of mica schist on clearings in the subalpine spruce forest, in overhangs exposed to the SE.

Note: *Bellemeria cinereorufescens* is the type host of *Nigropuncta rugulosa* (isotype in GZU). However, the host had remained undetermined when the lichenicolous fungus was described, because the infection strongly suppresses the formation of host apothecia.

30. VII. 2005 leg. J. Hafellner (65124), det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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115. ***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 orbicularis* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Murberge, small valley SE below the castle Rothenfels, c. 1.5 km SE of the town Oberwölz, 47°11'50"N / 14°18'15"E, c. 860 m alt., GF 8851/2; riparian forest stripe, on bark of *Salix* spec.

Note: Infections with this aggressive lichenicolous fungus are of considerable importance as a succession factor in corticolous lichen synusia, comparable to that of *Athelia arachnoidea*. (compare Hafellner & Obermayer, Herzogia 22: 177–190, 2009).

12. XI. 2000

leg. J. Hafellner (53352), det. J. Hafellner

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

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Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

116. ***Phacographa zwackhii*** (A.Massal. ex Zwackh) Hafellner

in Biblioth. Lichenol. 100: 108 (2009). – Bas.: *Leciographa zwackhii* A.Massal. ex Zwackh in Flora (Regensburg) 45: 571 (1862). – Syn.: *Opegrapha zwackhii* (A.Massal. ex Zwackh) Källsten ex Hafellner in Herzogia 10: 15 (1994).

Host: *Phlyctis argena* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Niedere Tauern, Triebener Tauern S of the town Trieben, gentle slope on the northern foot of Großer Griesstein, S above the wayside shrine near the farm Eberl, 47°24'35"N / 14°33'05"E, c. 1160 m alt., GF 8553/3, managed spruce forest with some scattered sycamore maples, on bark of *Acer pseudoplatanus*.

Note 1: *Phlyctis argena* is the type host of *Phacographa zwackhii*.

Note 2: For a detailed treatment of the species see Hafellner, Biblioth. Lich. 100: 108–110 (2009).

15. VIII. 2000

leg. J. Hafellner (52208), det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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117. ***Sagediopsis fissurisedens*** Hafellner

in Herzogia 9(3–4): 757 (1993).

Host: *Aspilidea myrinii* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Koralpe, Seespitz, southeastern slopes short below the summit, 46°47'20"N / 14°58'45"E, c. 2050 m alt., GF 9255/2; outcrops of mica schist in alpine meadows, on inclined rock faces near the ground.

Note 1: *Aspilidea myrinii* is the type host of *Sagediopsis fissurisedens*.

Note 2: The lichenicolous lichen *Protoparmelia phaeonesos* Poelt is also present on the specimens distributed to the herbaria GZU, NY and UPS.

29. X. 2000 leg. J. Hafellner (53134) & A. Hafellner, det. J. Hafellner  
distributed to: BR, CANB, GZU, NY, UPS

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Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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118. ***Sphaerellothecium parmeliae*** Diederich & Etayo

in Etayo & Diederich, Lichenologist 30: 117 (1998).

Host: *Parmelia saxatilis* (thallus)

**Europe, Austria:** Kärnten (Carinthia), Eastern Alps, Steirisches Randgebirge, Koralpe E of Wolfsberg, western slopes of the ridge between Weberkogel and Handalpe, 46°50'55"N / 15°00'45"E, c. 1740 m alt., GF 9156/3; small cliffs of mica schist at the actual tree line, on steep rock faces exposed to the W.

Note: *Parmelia saxatilis* is the type host of the species.

31. VIII. 2008 leg. J. Hafellner (71655), det. J. Hafellner  
distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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119. ***Stigmidium fuscatae*** (Arnold) R.Sant.

in Thunbergia 6: 17 (1988). – Bas.: *Arthopyrenia fuscatae* Arnold in Flora (Regensburg) 57: 139 (1874). – Syn.: *Pharcidia lichenum* f. *fuscatae* Arnold in Verh. Zool.-Bot. Ges. Wien 22: 302 (1872) (description, but name not validly published, ICBN 43.1.). – *Pharcidia fuscatae* (Arnold) Vouaux in Bull. Soc. Mycol. France 28: 237 (1912).

Host: *Acarospora fuscata* (thallus, apothecia)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, in the gorge Raabklamm W of the town Weiz, orographically left slopes, rocky terrain rib N opposite to the castle Gutenberg, 47°12'55"N / 15°34'07"E, c. 560 m alt., GF 8759/3; cliffs of siliceous schist in open mixed forest, on inclined rock faces.

Note 1: *Acarospora fuscata* is the type host of *Stigmidium fuscatae*.

Note 2: *Polycoccum microsticticum* (Leight.) Arnold is also present on the specimen in GZU.

23. VIII. 2009

leg. J. Hafellner (73978), det. J. Hafellner

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

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Hafellner J. 2012: Lichenicolous Biota (Nos 101–120). - Fritschiana 74: 1–17.

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120. ***Syzygospora physciacearum*** Diederich

in Biblioth. Lichenol. 61: 38 (1996).

Host: *Physcia adscendens* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Fischbacher Alpen, Feistritz valley c. 2.5 km S of the town Birkfeld, on the orographically right river bank of the Feistritz short upstream of the confluence with Gasenbach, 47°19'55"N / 15°41'45"E, c. 530 m alt., GF 8660/3; riparian forest stripe, on branches in the lower canopy of *Fraxinus excelsior*.

Note: The type host of *Syzygospora physciacearum* is *Physcia dubia*.

25. XII. 2000

leg. J. Hafellner (53738), det. J. Hafellner

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



## Scheda emendata

Hafellner J. 2010: Lichenicolous Biota (Nos 81–100). - Fritschiana 67: 11–26.

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### 81. *Milospium graphideorum* (Nyl.) D.Hawksw.

in Trans. Brit. Mycol. Soc. 65: 228 (1975). – *Spilomium graphideorum* Nyl. in Actes Soc. Linn. Bordeaux 21: 398 (1856). – *Coniothecium graphideorum* (Nyl.) Keissl. in Rabenh. Krypt.-Fl., ed. 2, 8: 618 (1930).

Host: *Dirina stenhammari* (thallus)

**Europe, Ukraine:** Crimean Peninsula, Bakhchysarai, Mashino, limestone cliff 500 m NW of the village, 44°42'04"N / 33°54'26"E, c. 350 m alt.; on the base of the cliff, on limestone in overhangs.

Note 1: The type host of *Milospium graphideorum* is *Lecanographa lyncea*.

Note 2: *Dirina stenhammari* is regarded by some lichenologists as a synonym of *Dirina massiliensis* f. *sorediata*.

10. VI. 2006 leg. J. Vondrák (4613) & J. Šoun, rev. B. Heuchert  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

[originally issued under *Cladsporium arthoniae* M.S.Christ. & D.Hawksw.]

## References

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- HAFELLNER, J. 2010: Lichenicolous Biota (Nos 81–100). – *Fritschiana* (Graz) 67: 11–26. URL: <http://www-classic.uni-graz.at/botwww/journals/fritschiana/fritschiana-67/hafellner-2010-lichenicolous-biota-nos-81-100.pdf>

## Taxon Synopsis:

Taxon	Exs. no.
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<i>Plectocarpon lichenum</i> .....	108
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Sordariomycetes (incl. Hypocreales)	
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<i>Asterophoma mazaediicola</i> .....	102
<i>Microcalicium arenarium</i> .....	105
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<i>Telogalla olivieri</i> .....	109
Dothideomycetes	
<i>Polycoccum microsticticum</i> .....	119
<i>Sagediopsis fissurisedens</i> .....	117
<i>Sphaerellothecium parmeliae</i> .....	118
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<i>Chaenotheca trichialis</i> .....	<i>Microcalicium disseminatum</i> .....	112
<i>Cladonia coniocraea</i> .....	<i>Lichenosticta alcicornaria</i> .....	103
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<i>Dirina stenhammari</i> .....	<i>Milospium graphideorum</i> .....	81
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## Lichenicolous Biota (Nos 121–150)

Josef HAFELLNER\*

HAFELLNER J. 2012: Lichenicolous Biota (Nos 121–150). – Fritschiana (Graz) 74: 19–41. - ISSN 1024-0306.

**Abstract:** The sixth fascicle (30 numbers) of the exsiccata 'Lichenicolous Biota' is published. The issue contains material of 29 non-lichenized fungal taxa (17 ascomycetes, 6 basidiomycetes, 6 anamorphic fungi), including isotype material of *Abrothallus parmotrematis* Diederich (no. 131), *Endococcus thelommatis* Kocourk. & K.Knudsen (no. 136), *Laetisaria lichenicola* Diederich et al. (no. 137), *Trimmatostroma dendrographae* Diederich et al. (no. 129), and of *Trimmatostroma quercicola* Diederich et al. (no. 149), as well as isoneotype material of *Briancoppinsia cytospora* (Vouaux) Diederich et al. (no. 133), representing the type species of *Briancoppinsia*, and paratype material of *Trimmatostroma dendrographae* (no 130). Collections of the type species of *Cercidospora* (*C. macrospora*, syn. *C. ulothii*), *Marchandiobasidium* (*M. aurantiacum*), *Phaeopyxis* (*P. punctum*), *Rhagadostoma* (*R. lichenicola*, syn. *R. corrugatum*), *Stigmatidium* (*S. schaeferi*), *Telogalla* (*T. olivieri*), and *Xanthoriicola* (*X. physciae*) are also included in this fascicle.

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### Introduction

The exsiccata 'Lichenicolous Biota' is continued with fascicle 6 containing 30 numbers.

The exsiccata covers all lichenicolous biota. The exsiccata is open 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], Leningrad [LE], Munich [M], and Prague [PRM] (herbarium acronyms sec. HOLM-

GREN 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>). It is planned to publish at least one fascicle per year, consisting of a variable number of decades.

For the 6<sup>th</sup> issue, I gratefully acknowledge the contribution of 13 collections by Paul Diederich (partly together with Damien Ertz), 2 collections by Walter Obermayer, 2 collections by Toby Spribille (together with L. Yakovchenko), and 1 collection each by Brian Coppins, Damien Ertz, Siegfried Huneck(†), Kerry Knudsen (together with S. Chaney, sent by Jana Kocourková), James Lendemer, and Rolf Santesson. In fieldwork I received support by Roderick Rogers. Brian Coppins, Paul Diederich, Damien Ertz, Jana Kocourková, James Lendemer, and Toby Spribille 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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**121. *Dactylospora lobariella* (Nyl.) Hafellner**

in Nova Hedwigia Beih. 62: 118 (1979). – Bas.: *Lecidea lobariella* Nyl. in Flora (Regensburg) 52: 296 (1869). – Syn.: *Buellia lobariella* (Nyl.) Arnold in Flora (Regensburg) 53: 478 (1870). – *Karschia lobariella* (Nyl.) Arnold in Flora (Regensburg) 57: 103 (1874). – *Abrothallus lobariellus* (Nyl.) Zopf in Hedwigia 35: 363 (1896).

Host: *Lobaria* spec. (thallus)

**Asia, Russia:** Khabarovskiy Krai, Komsomolsk-De Kastru route, Khomi Mountains, c. 20 air km E of Chernyy Mys, hills on north bank of the Salasu River, 51°05'55"N / 138°46'17"E, 328 m alt.; mixed coniferous-broad-leaved mature forest, at the base of a trunk of *Picea jezoensis*.

Note: The type host of *Dactylospora lobariella* is *Lobaria pulmonaria*.

12. VII. 2009 leg. T. Spribille (30509)  
(excursion together with L. Yakovchenko, C. Printzen, B. Kanz & E. Malashkina)  
det. J. Hafellner

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

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**122. *Marchandiobasidium aurantiacum* Diederich & Schultheis**

in Diederich et al., Mycol. Res. 107: 524 (2003).

Hosts: *Physcia adscendens* (thallus) and *Physcia tenella* (thallus)

**Europe, Luxembourg:** Dudelange, in the centre of the city, along Schwaarze Wee, 49°28'40"N / 06°05'02"E, c. 290 m alt., IFBL: M8.54.42, UTM: KV.88; trees on a parking area, on bark of *Platanus* spec.

Note: *Physcia tenella* is the type host of *Marchandiobasidium aurantiacum*.

15. II. 2010 leg. P. Diederich (16901), det. P. Diederich

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

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123. ***Nectriopsis parmeliae*** (Berk. & M.A.Curtis) M.S.Cole & D.Hawksw.

in Mycotaxon 77: 321 (2001). – Bas.: *Diplodia parmeliae* Berk. & M.A.Curtis in Berkeley, Grevillea 3(25): 3 (1874). – Syn.: *Nectria parmeliae* (Berk. & M.A.Curtis) D.Hawksw. in Bull. British Mus. Nat. Hist., Bot. ser., 9(1): 76 (1981).

Host: *Physcia subtilis* (thallus)

**North America, U.S.A.:** Pennsylvania, Lancaster County, E slopes above Susquehanna River, 0.25–0.5 miles N of confluence of Tucquan Creek and Susquehanna River, 39°51'30"N / 76°20'55"W, c. 100 m alt.; schist outcrops with *Quercus-Nyssa-Pinus* forest, on rock.

Note 1: In the protologue the host is only given on genus level (*Parmelia*).

Note 2: Hawksworth (l.c.) has reinvestigated the holotype in K and identified the host lichen as *Punctelia* cf. *subrudecta* (sub *Parmelia*).

08. VIII. 2009 leg. J. C. Lendemer (19351), det. J. C. Lendemer  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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124. ***Sagediopsis fissurisedens*** Hafellner

in Herzogia 9(3–4): 757 (1993).

Host: *Aspilidea myrinii* (thallus)

**Europe, Sweden:** Härjedalen, Tännäs par., Mt. Gruvvålen, 0.3 km SSW of Glimsjön, c. 1.5 km ENE of Ramundbergets Fjällgård, 62°42'40"N / 12°25'E, c. 920 m alt.; on open siliceous rocks in a subalpine birch forest.

Note: *Aspilidea myrinii* is the type host of *Sagediopsis fissurisedens*.

11. VIII. 1987 leg. R. Santesson (31955), det. R. Santesson  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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125. ***Sphinctrina leucopoda*** Nyl.

in Synopsis Meth. Lich. 1: 144 (1860).

Host: *Pertusaria* spec. (thallus, apothecial verrucae)

**Australia:** Queensland, Tandora, about 25 km ENE of Maryborough, 25°27'S / 152°52'E, at sea level; mangroves.

Note: The type host of *Sphinctrina leucopoda* is a North American *Pertusaria*. Nylander (l.c.) argued it might be *P. leioplaca*.

23. VIII. 1986 leg. J. Hafellner (18211) & R. Rogers, det. Hafellner  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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126. ***Tremella dendrographae*** Diederich & Tehler

in Diederich, Biblioth. Lichenol. 61: 74 (1996).

Host: *Dendrographa minor* (syn. *Dendrographa leucophaea* f. *minor*) (thallus)

**North America, U.S.A.:** California, Monterey Co., SW of Monterey, 17-Mile Drive, Crocker Grove, 36°34'40"N / 121°58'20"W, c. 15 m alt.; coniferous forest close to the sea, on *Cupressus macrocarpa*.

Note: *Dendrographa minor* is the type host of the species.

19. VII. 2008 leg. P. Diederich (16794) & D. Ertz, det. P. Diederich  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

**127. *Tremella ramalinae* Diederich**

in Biblioth. Lichenol. 61: 152 (1996).

Host: *Ramalina fraxinea* (thallus)

**Europe, Austria:** Steiermark (Styria), Northern Alps, Dachsteingruppe, Ramsau, 4.6 km NNW of the centre of Schladming, 0.28 km NE of the church of Ramsau-Ort and 0.5 km SE of the farmstead 'Feldlhof', 47°25'26"N / 13°39'28"E, c. 1150 m alt., GF 8547/4; alley, on twigs of *Acer pseudoplatanus* and *Fraxinus excelsior*.

Note: The type host of *Tremella ramalinae* is *Ramalina lacera*.

19. II. 2012 leg. W. Obermayer (12390), det. J. Hafellner  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

**128. *Trichonectria pertusariae* Etayo & P.Boom**

in Nova Hedwigia 81: 160 (2005).

Host: *Pertusaria* spec. (thallus, apothecial margins)

**Africa, Canary Islands:** La Gomera, Arure, Mirador de Alojera, 28°09'04"N / 17°18'30"W, c. 980 m alt.; brezal (*Erica arborea* stand), on bark of *Erica arborea*.

Note: The type host of *Trichonectria pertusariae* is *Pertusaria ophthalmiza*.

2. IV. 2011 leg. D. Ertz (16252), det. D. Ertz  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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129. ***Trimmatostroma dendrographae*** Diederich, Ertz, U.Braun  
& Heuchert **Isotype**

in Diederich et al., Bull. Soc. Naturalistes Luxembourgeois 111: 49 (2010).

Host: *Dendrographa* spec. (thallus)

**North America, U.S.A.:** California, Monterey Co., Carmel, Point Lobos State Reserve, 36°31'18"N / 121°57'09"W, c. 30 m alt.; coniferous forest close to the sea, on *Cupressus macrocarpa*.

Note 1: The host thallus consists of a crustose primary thallus and a secondary fruticose one; both are infected.

Note 2: Paratype material is distributed under Lichenicolous Biota no. 130.

18. VII. 2008 leg. P. Diederich (16789) & D. Ertz, det. P. Diederich  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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130. ***Trimmatostroma dendrographae*** Diederich, Ertz, U.Braun  
& Heuchert **Paratype**

in Diederich et al., Bull. Soc. Naturalistes Luxembourgeois 111: 49 (2010).

Host: *Dendrographa* spec. (thallus)

**North America, U.S.A.:** California, Monterey Co., SW of Monterey, 17-Mile Drive, Crocker Grove, 36°34'40"N / 121°58'20"W, c. 15 m alt.; coniferous forest close to the sea, on *Cupressus macrocarpa*.

Note 1: The type host of the species is a so far undetermined *Dendrographa* likely to be identical with that of the paratype.

Note 2: The host thallus consists of a crustose primary thallus and a secondary fruticose one; both are infected.

Note 3: Isotype material is distributed under Lichenicolous Biota no. 129.

19. VII. 2008 leg. P. Diederich (16767) & D. Ertz, det. P. Diederich  
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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131. ***Abrothallus parmotrema*** Diederich      **Isotype**

in Bull. Soc. Naturalistes Luxembourgeois 112: 29 (2011).

Host: *Parmotrema crinitum* (thallus)

**Europe, United Kingdom:** Scotland, Inner Hebrides, Isle of Skye, SSE of Broadford, Ardrnameacan [on the shore of Loch na Dal], 57°10'05"N / 5° 46'50"W, c. 30 m alt., NG 7 1; deciduous forest with dominant *Corylus avellana*, on bark of unidentified tree.

Note: The name was originally introduced in Clauzade et al., Bull. Soc. Linn. Provence, Num. Spéc. 1: 24 (1989) but the species was not formally described at that time.

27. V. 1987

leg. P. Diederich (8301), det. P. Diederich

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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132. ***Abrothallus peyritschii*** (Stein) I.Kotte

in Centralbl. Bakt. Paras., 2. Abt., 24: 76 (1909). – Bas.: *Abrothallus parmeliarum* var. *peyritschii* Stein, Flechten in Cohn, Kryptfl. Schles. 2(2): 211 (1879). – Syn.: *Abrothallus parmeliarum* f. *peyritschii* (Stein) Arnold in Flora (Regensburg) 68: 221 (1885).

Host: *Vulpicida pinastris* (thallus)

**Asia, Russia:** Khabarovskiy Krai, Bureinskiy Zapovednik, upper reach of the Pravaya Bureya River, Tsarskaya Doroga, ca. 650 m N of patrol cabin 'Staraya Medvezhka', 25 km SE of Sofiysk and 2.6 km N (upstream) of the patrol cabin 'Novaya Medvezhka'. 52°09'00"N / 134°19'00"E, c. 870 m alt.; mossy *Larix gmelinii*-*Vaccinium vitis-idaea* forest, on branches of *Pinus pumila*.

Note: *Vulpicida pinastris* is the type host of *Abrothallus peyritschii*.

2. VIII. 2009

leg. T. Spribille (31780) with L. Yakovchenko, det. T. Spribille

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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**133. *Briancoppinsia cytospora* (Vouaux) Diederich, Ertz, Lawrey & P.Boom *Isonotype***

in Fungal Diversity 52(1): 8 (2011). – Bas.: *Phyllosticta cytospora* Vouaux in Bull. Soc. Mycol. France 30: 193 (1914). – Syn.: *Phoma cytospora* (Vouaux) D.Hawksw. in Trans. Brit. Mycol. Soc. 67: 56 (1976).

Host: *Lecanora conizaeoides* (thallus)

**Europe, Luxembourg:** N of Reckange (Mersch), Enelter Kapelle, 49°45'35"N / 6°04'42"E, c. 265 m alt., IFBL: L8.24.44; UTM: KA.81; deciduous trees near the chapel, on old trunk of *Aesculus hippocastanum*.

Note 1: According to the protologue, the type host of *Phyllosticta cytospora* is *Flavoparmelia caperata*.

Note 2: The identification of the host in the exsiccata distributed here is uncertain.

Note 3: Diederich et al. (Fungal Diversity 52(1): 1–12, 2011) have shown that the coelomycete *Briancoppinsia cytospora* is likely to be a member of the family *Arthoniaceae* belonging to the Arthoniales-Arthoniomycetes.

Note 4: The host is partly killed by *Athelia arachnoidea* (e.g. specimen in GZU).

3. IX. 2009 leg. P. Diederich (16849), det. P. Diederich  
distributed to: BR, CANB, E, GZU, NY, PRM, UPS

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Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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**134. *Cercidospora macrospora* (Uloth) Hafellner & Nav.-Ros.**

in Navarro-Rosinés et al., Lich. Fl. Greater Sonoran Desert Region 2: 638 (2004). – Bas.: *Phacopsis macrospora* Uloth in Flora (Regensburg) 44: 653 (1861). – Syn.: *Cercidospora ulothii* Körb. in Parerga Lich.: 465 (1865).

Host: *Protoparmeliopsis muralis* sensu auct. (thallus)

**Europe, Germany:** Sachsen-Anhalt, Wimmelburg c. 2.5 km WSW of Eisleben, mining area N of the village, 51°31'25"N / 11°30'55"E, c. 190 m alt., MTB 4435/3; mining waste tip of copper-rich slate, on small stones.

Note 1: *Protoparmeliopsis muralis* sensu auct. (syn. *Lecanora muralis*) is the type host of *Cercidospora macrospora* and its syn. *C. ulothii*.

Note 2: The genus *Cercidospora* is based on *C. ulothii* Körb., a later heterotypic synonym of *Phacopsis macrospora* Uloth.

10. III. 1991 leg. S. Huneck, det. J. Hafellner  
distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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135. ***Cornutispora pyramidalis*** Etayo

in Opuscula Philolichenum 8: 134 (2010).

Host: *Parmotrema robustum* (thallus)

**Europe, Azores:** São Miguel, Furnas, on the shore of Lagoa das Furnas, 37° 46'06"N / 25°19'54"W, c. 285 m alt.; planted trees on the lakeshore, on bark of *Cryptomeria japonica*.

Note: The type host of *Cornutispora pyramidalis* is *Hypotrachyna revoluta*.

30. VII. 2010

leg. P. Diederich (16968), det. P. Diederich

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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136. ***Endococcus thelommatis*** Kocourk. & K.Knudsen  
**Isotype**

in Biblioth. Lichenol. 106: 174 (2011).

Host: *Thelomma santessonii* (thallus, apothecial margins)

**North America, U.S.A.:** California, Santa Barbara Co., Santa Rosa Island, Channel Islands National Park, South Point, 33°54'27"N / 120°07'27"W, 299 m alt.; coastal sage shrub, on boulders of sandstone.

Note: *Thelomma santessonii* is the type host of the species.

14. VI. 2009

leg. K. Knudsen (11421) & S. Chaney, det. J. Kocourkova

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



Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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**137. *Laetisaria lichenicola* Diederich, Lawrey & Van den Broeck  
Isotype**

in Diederich et al., Mycologia 103(3): 530 (2011).

Hosts: *Physcia adscendens* (thallus) and *Physcia tenella* (thallus)

**Europe, Luxembourg:** Dudelange, in the centre of the city, along Schwaarze Wee, 49°28'40"N / 06°05'02"E, c. 290 m alt., IFBL: M8.54.42, UTM: KV.88; trees on a parking area, on bark of *Platanus* spec.

Note 1: All specimens are sterile.

Note 2: *Laetisaria lichenicola* also attacks *Phaeophyscia orbicularis* (specimen in BR) and *Xanthoria parietina* (specimen in GZU).

Note 3: The specimen in GZU is also infected with *Marchandiobasidium aurantiacum*. Material of that species is distributed under Lichenicolous Biota no. 122.

15. II. 2010 leg. P. Diederich (16900), det. P. Diederich  
distributed to: BR, CANB, GZU, NY, UPS

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Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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**138. *Minutoexcipula mariana* V. Atienza**

in Biblioth. Lichenol. 82: 142 (2002).

Host: *Pertusaria* spec. (thallus, apothecial verrucae)

**Europe, Azores:** Pico, Lajes do Pico, along main road inside village, 38°23' 37"N / 28°15'03"W, c. 15 m alt.; row of trees beside the road, on bark of *Dracaena* spec..

Note: The type host of *Minutoexcipula mariana* is *Pertusaria heterochroa*.

25. VII. 2010 leg. P. Diederich (17023), det. P. Diederich  
distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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139. ***Muellerella hospitans*** Stizenb.

in Nova Acta Acad. Leop.-Carol. 30(3): 51 (1863). – Syn.: *Muellerella polyspora* var. *hospitans* (Stizenb.) Keissl. in Ark. Bot. 18(16): 4 (1923).

Host: *Bacidia* spec. (apothecia)

**Europe, Albania:** Northern Albania, Lezhë distr., at the coast of the Adriatic Sea SW of the town Lezhë, Kuna Vain lagoon S of the inlet of the river Drin, 41°44'20"N / 19°34'50"E, c. 5 m alt.; remnants of coastal forest c. 200 m behind the shore, on bark of old *Fraxinus* spec.

Note: The type host of *Muellerella hospitans* is *Bacidia rubella*.

16. VIII. 2007 leg. J. Hafellner (80823), det. J. Hafellner  
(excursion together with M. Tretiach, L. Muggia, M. Piccotto & J. Marka)

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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140. ***Phaeopyxis punctum*** (A.Massal.) Rambold, Triebel & Coppins

in Rambold & Triebel, Notes Roy. Bot. Garden Edinburgh 46: 384 (1990). – Bas.: *Nesolechia punctum* A.Massal. in Sched. Crit. Lich. Exs. Italiae 5: 96 (1856). – Syn.: *Lecidea punctum* (A.Massal.) Jatta in Syll. Lich. Ital.: 353 (1900).

Host: *Cladonia digitata* (thallus) and *C. coniocraea* (thallus)

**Europe, Austria:** Vorarlberg, Eastern Alps, Verwall-Gruppe, Silbertal c. 8 km east of the town Schruns, above the inn Fellimännle, 47°04'45"N / 10°01'30"E, c. 1100 m alt., GF 8926/1; talus of forest road on slope exposed to the W, on mossy soil.

Note 1: In the protologue the host is only given to genus level (*Cladonia*).

Note 2: Type material has been distributed in Massalongo, Lich. Ital. Exs. 153. Rambold & Triebel (l.c.) revised two isotypes stored in M but did not mention the type host.

30. VIII. 2008 leg. J. Hafellner (80842), det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

**141. *Plectocarpon macaronesiae*** Diederich, Etayo & Sérusiaux

in Diederich & Etayo, Nordic J. Bot. 14: 592 (1994).

Host: *Lobaria macaronesica* (thallus)

**Europe, Azores:** Pico, between Lajes do Pico and São Roque do Pico, Bosque da Junqueira, 1 km S of a junction with a road going to the E, 38°27'56"N / 28°17'57"W, c. 650 m alt.; laurel forest, on *Vaccinium cylindraceum*.

Note 1: The type host of *Plectocarpon macaronesiae* is *Lobaria* cf. *meridionalis*.

Note 2: The specimen in GZU is also infected by *Tremella lobariacearum*.

26. VII. 2010

leg. P. Diederich (17076), det. P. Diederich

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

**142. *Polycoccum minutulum*** Kocourk. & F. Berger

in Czech Mycology 51: 171 (1999).

Host: *Trapelia placodioides* (thallus)

**Europe, Austria:** Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, in the gorge Raabklamm W of the town Weiz, orographically right slope E below the village Kapellenfeld, rocky ridge c. 0.6 km NW of the castle Gutenberg, 47°13'00"N / 15°33'50"E, c. 580 m alt., GF 8759/3; sparse mixed forest with small outcrops of siliceous schist, on loose plates lying on the ground.

Note: *Trapelia placodioides* is the type host of *Polycoccum minutulum*.

9. IX. 2009

leg. J. Hafellner (74056), det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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

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

Host: *Solorina crocea* (thallus)

**Europe, Austria:** Kärnten (Carinthia), Eastern Alps, Saualpe W of the town Wolfsberg, short SSW of the saddle between the mountains Forstalpe and Geierkogel, 46°54'30"N / 14°40'05"E, c. 1850 m alt., GF 9054/3; outcrops of eclogite along the crest, exposed to the N, on 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.

4. IX. 2011

leg. J. Hafellner (78506), det. J. Hafellner

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

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Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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144. *Stigmidium schaeferi* (A.Massal.) Trevis.

in Conspectus Verruc.: 17 (1860). – Bas.: *Sphaeria schaeferi* A.Massal. in Sulla *Lecidea hookeri* nota: 8 (1853) '*schaererii*'. – Syn.: *Pharcidia schaeferi* (A.Massal.) Arnold in Verh. Zool.-Bot. Ges. Wien 19: 638 (1896). – *Verrucaria schaeferi* (A. Massal.) Nyl. in Flora (Regensburg) 53: 358 (1865). – *Sphaerella schaeferi* (A. Massal.) Anzi in Atti Soc Ital. Sci. Nat. 11: 180 (1868). – *Epicymatia schaeferi* (A.Massal.) Sacc. in Syll. Fung. 1: 571 (1882). – *Sphaerulina schaeferi* (A.Massal.) Sacc. & D.Sacc. in Syll. Fung. 17: 695 (1905).

Host: *Dacampia hookeri* (thallus)

**Europe, Austria:** Salzburg, Pinzgau, Eastern Alps, Hohe Tauern, Glockner-Gruppe, northern slopes of Kitzsteinhorn, c. 0.5 km W of Bundessportheim, 47°12'35"N / 12°41'10"E, c. 2450 m alt., GF 8742/3; open alpine vegetation over calcareous schist, on soil.

Note 1: *Dacampia hookeri* is the type host of *Stigmidium schaeferi*.

Note 2: *Dacampia hookeri* is lichenicolous itself, usually upon species of the *Solorina bispora* group (see Henssen, Crypt. Bot. 5: 149–158, 1995) but often, as is the case in the material distributed here, the primary host is not recognizable anymore.

27. VIII. 1996

leg. J. Hafellner (37986), det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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145. ***Stigmatidium tabacinae*** (Arnold) Triebel

in Biblioth. Lichenol. 35: 236 (1989). – Bas.: *Pharcidia tabacinae* Arnold in Flora (Regensburg) 64: 176 (1881). – Syn.: *Sphaerulina tabacinae* (Arnold) Vouaux in Bull. Soc. Mycol. France 29: 34 (1913).

Host: *Toninia tristis* (thallus)

**North America, U.S.A.:** Alaska, Yukon-Koyukuk Census Area, Brooks Range, Endicott Mountains, Sukakpak Mountain, foothills on the W side, 67°35'35"N / 149°46'00"W, c. 580 m alt.; boulders of calcareous sandstone in open boreal forest, on soil.

Note: *Toninia tristis* (sub syn. *Psora tabacina*) is the type host of *Stigmatidium tabacinae*.

21. VIII. 2010 leg. J. Hafellner (79969), det. J. Hafellner  
(excursion together with T. Spribille, L. Muggia and C. Hampton-Miller)

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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146. ***Teloggalla olivieri*** (Vouaux) Nik.Hoffm. & Hafellner

in Biblioth. Lichenol. 77: 109 (2000). – Bas.: *Laestadia olivieri* Vouaux in Bull. Soc. Mycol. France 28: 216 (1912) nomen novum for *Verrucaria xanthoriae* Wedd. f. *megasporea* H.Olivier in Princ. Paras. Lich. Fr. Suppl. 1: 14 (1907).

Host: *Xanthoria parietina* (thallus)

**Europe, Luxembourg:** SSW of Belvaux, Kiemreech, 49°29'57"N / 5°53'38"E, c. 370–390 m alt., IFBL M8.51.21; ancient mining area, on twigs of *Salix caprea*.

Note: *Xanthoria parietina* is the type host of *Teloggalla olivieri*.

8. IX. 2012 leg. P. Diederich (17474), det. P. Diederich

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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147. ***Tremella caloplacae*** (Zahlbr.) Diederich

in Sérusiaux et al., *Lejeunia* 173: 31 (2003). – Bas.: *Lindauopsis caloplacae* Zahlbr. in Ber. Deutsch. Bot. Ges. 24: 145 (1906).

Host: *Xanthoria parietina* (apothecia)

**Europe, Austria:** Steiermark (Styria), Dachsteingruppe (S-facing slopes), 4.6 km NNW of the centre of Schladming, Ramsau, 1.4 km W of the church of Ramsau-Ort, road to Vorberg near an underpass, 47°25'16"N / 13°38'10"E, c. 1170 m alt., GF 8747/4; roadside trees, on twigs of *Acer pseudoplatanus*.

Note: The type host of *Tremella caloplacae* is *Caloplaca aurantia*.

21. II. 2012

leg. W. Obermayer (12446), det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

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148. ***Tremella lobariacearum*** Diederich & M.S.Christ.

in Diederich, *Biblioth. Lichenol.* 61: 103 (1996).

Host: *Lobaria pulmonaria* (thallus)

**Europe, Azores:** São Miguel, Furnas, Terra Nostra park, 37°46'15"N / 25°18'42"W, c. 220 m alt.; arboretum, on various exotic trees.

Note: *Lobaria pulmonaria* is the type host of the species.

30. VII. 2010

leg. P. Diederich (16979), det. P. Diederich

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

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

149. ***Trimmatostroma quercicola*** Diederich, U.Braun & Heuchert  
**Isotype**

in Diederich et al., Bull. Soc. Naturalistes Luxembourgeois 111: 52 (2010)

Host: bark of phorophyte, algal colonies or sterile crustose lichen thallus

**Europe, Luxembourg:** Vogelsmühle, Halerbaach valley, on the orographically left river bank, 49°49'22"N / 06°18'51"E, c. 250 m alt. IFBL: L9.11.11, UTM: LA.02; deciduous forest, on bark of *Quercus* spec.

Note: The biology of the species remains unclear.

9. XII. 2007 leg. P. Diederich (16723), det. P. Diederich  
distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2012: Lichenicolous Biota (Nos 121–150). - Fritschiana 74: 19–41.

150. ***Xanthoriicola physciae*** (Kalchbr.) D.Hawksw.

in Hawksworth & Punithalingam, Trans. Brit. Mycol. Soc. 61: 67 (1973). – Bas.: *Gymnosporium physciae* Kalchbr. in Math. Term. Közlem. 3: 299 (1865). – Syn.: *Coniosporium physciae* (Kalchbr.) Sacc. in Syll. Fung. 4: 246 (1886).

Host: *Xanthoria parietina* (apothecia)

**Europe, United Kingdom:** Scotland, East Lothian (VC 82), Dunbar, Belhaven Bay, 56°00'6"N / 02°33'46"W, c. 5 m alt.; at edge of conifer plantation on coastal sand dunes, on twigs of *Sambucus nigra*.

Note1: *Xanthoria parietina* is the type host of the species.

Note 2: Ruibal et al. (IMA Fungus 2(1): 97–103, 2011) have shown that the dematiaceous hyphomycete *Xanthoriicola physciae* is likely to be a member of the family *Teratosphaeriaceae* belonging to the *Capnodiales*-Dothideomycetes.

18. III. 2012 leg. B. J. Coppins (23901), det. B. J. Coppins  
distributed to: BR, CANB, GZU, NY, UPS

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## Taxon Synopsis:

Taxon	Exs. no.
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<i>Briancoppinsia cytospora</i> .....	133
<i>Plectocarpon macaronesiae</i> .....	141
Lecanoromycetes	
<i>Dactylospora lobariella</i> .....	121
Leotiomycetes	
<i>Phaeopyxis punctum</i> .....	140
Sordariomycetes (incl. Hypocreales)	
<i>Nectriopsis parmeliae</i> .....	123
<i>Rhagadostoma lichenicola</i> .....	143
<i>Trichonectria pertusariae</i> .....	128
Eurotiomycetes (incl. Verrucariales and Mycocaliciales)	
<i>Endococcus thelommatis</i> .....	136
<i>Muellerella hospitans</i> .....	139
<i>Sphinctrina leucopoda</i> .....	125
<i>Telogalla olivieri</i> .....	146
Dothideomycetes	
<i>Cercidospora macrospora</i> .....	134
<i>Dacampia hookeri</i> .....	144
<i>Polycoccum minutulum</i> .....	142
<i>Sagediopsis fissurisedens</i> .....	124
<i>Stigmatidium schaeereri</i> .....	144
<i>Stigmatidium tabacinae</i> .....	145
<i>Xanthoriicola physciae</i> .....	150
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<i>Minutoexcipula mariana</i> .....	138
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<i>Laetisaria lichenicola</i> .....	137
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Tremellomycetes

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<i>Tremella dendrographae</i> .....	126
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<i>Cladonia digitata</i> .....	<i>Phaeopyxis punctum</i> .....	140
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<i>Dendrographa minor</i> .....	<i>Tremella dendrographae</i> .....	126
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<i>Lecanora conizaeoides</i> .....	<i>Athelia arachnoidea</i> .....	133
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<i>Pertusaria</i> spec. ....	<i>Trichonectria pertusariae</i> .....	128
<i>Pertusaria</i> spec. ....	<i>Minutoexcipula mariana</i> .....	138
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<i>Trapelia placodioides</i> .....	<i>Polycoccum minutulum</i> .....	142
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## Geographic Index:

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	<i>Polycoccum minutulum</i> .....	142
	<i>Rhagadostoma lichenicola</i> .....	143
	<i>Stigmidium schaeereri</i> .....	144
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	<i>Tremella ramalinae</i> .....	127
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Luxembourg	<i>Athelia arachnoidea</i> .....	133
	<i>Briancoppinsia cytospora</i> .....	133
	<i>Laetisaria lichenicola</i> .....	137
	<i>Marchandiobasidium aurantiacum</i> .....	122
	<i>Telogalla olivieri</i> .....	146
	<i>Trimmatostroma quercicola</i> .....	149
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Spain (see under Africa, Canary Islands)		
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8. SOUTHERN AMERICA

9. ANTARCTIC



## Lichenotheca Graecensis, Fasc. 21 (Nos 401–420)

Walter OBERMAYER\*

OBERMAYER W. 2012: Lichenotheca Graecensis, Fasc. 21 (Nos 401–420). - Fritschiana (Graz) 74: 43–48. - ISSN 1024-0306.

**Abstract:** Fascicle 21 of Lichenotheca Graecensis comprises 20 collections of lichens from the following countries (and administrative subdivisions): Austria (Carinthia [6]; Salzburg [3]; Styria [5]; Upper Austria [1]), Russia (Republic of Buryatia [2]; Orenburg Oblast [1]), Slovenia [1], and Uruguay (Montevideo [1]). TLC-analyses were carried out for *Cladonia uncialis* subspecies *biuncialis*, *Ochrolechia turneri*, *Trapeliopsis granulosa*, and *Usnea densirostra*.

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The exsiccata series 'Lichenotheca Graecensis' is distributed on exchange basis to the following 19 public herbaria and to one private collection (herbarium abbreviations follow <http://sciweb.nybg.org/science2/IndexHerbariorum.asp>): ASU, B, C, CANB, CANL, E, G, GZU, H, HAL, HMAS, LE, M, MAF, MIN, O, PRA, TNS, UPS, Klaus KALB. A text version of Lichenotheca Graecensis can be found under <http://www.uni-graz.at/walter.obermayer/li-grz1.htm>, a pdf-file is stored under <http://www.uni-graz.at/walter.obermayer/lichenotheca-graecensis-21.pdf>. Label texts originally drafted in a local language have been translated into English by the author.

I wish to thank the following lichenologists who have made their lichen material available, particularly Josef HAFELLNER (Graz), Helmut MAYRHOFER (Graz), Héctor S. OSORIO (Montevideo), Toby SPRIBILLE (Missoula and Graz), Roman TÜRK (Salzburg), Gennadii URBANAVICHUS and Ira URBANAVICHENE (Murmansk), and Jan VONDRÁK (Průhonice and Ceske Budejovice). Josef HAFELLNER, Helmut MAYRHOFER, and Christian SCHEUER kindly checked the manuscript for errors. I am indebted to Josef HAFELLNER for the determination of one lichenicolous fungus (*Asterophoma mazaediicola* on *Calicium trabinellum*) and to Leif Tibell for the confirmation of the determination of the cited lichen.

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#### 401. *Acrocordia gemmata* (Ach.) A.Massal.

**AUSTRIA**, Salzburg, Flachgau region (=Salzburg-Umgebung district), 4.9 km SSE of the centre of 'Neumarkt am Wallersee', Henndorfer Wald, 4.8 km ENE of the centre of Henndorf, valley of the brook Aubach, 47°54'25"N, 013°14'51"E, 630 m above sea level, (grid number 8045/3), on stembark of old *Fraxinus excelsior*, 22 April 2012, collected and determined by Roman Türk (50925).

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#### 402. *Arthonia leucopellaea* (Ach.) Almq.

**AUSTRIA**, Oberösterreich (=Upper Austria), Salzkammergut, 2.6 km SW of Hallstatt, Echerntal, 47°32'50"N, 013°37'22"E, 585 m above sea level, (grid number 8447/4), on stembark of *Picea abies*, 29 September 2012, collected and determined by Roman Türk (51148).

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#### 403. *Belonia incarnata* Th.Fr. & Graewe ex Th.Fr.

**AUSTRIA**, Kärnten (=Carinthia), Steirisches Randgebirge, Koralpe, 9 km NE of the centre of St Paul im Lavanttal, Kleinalpl, gently inclined slopes NE of the hunting lodge Brandl, 46°43'55"N, 014°58'45"E, 1500 m above sea level, (grid number 9255/4), W-exposed slope of a forestry road, on soil, 9 September 2007, collected by Josef Hafellner (72646) & Lucia Muggia, determined by Josef Hafellner.

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#### 404. *Calicium trabinellum* (Ach.) Ach.

**AUSTRIA**, Salzburg, Pinzgau region (=Zell am See District), Zillertaler Alpen, 5.2 km SSW of Gerlospass, Wildgerlostal, Anken-Alm, 47°11'50"N, 012°05'48"E, 1923 m above sea level, (grid number 8838/2), on wood of *Pinus cembra*, 27 July 2008, collected by Roman Türk (43776a) & Heidelinde Sofie Pfleger, determined by Roman Türk, determination confirmed by Leif Tibell (December 2012).

Note: Part of the hymenia of *Calicium trabinellum* is infected by *Asterophoma mazaediicola* (determined by Josef Hafellner 2012). Associated species: *Chaenothecopsis* sp., *Parmeliopsis ambigua*, *Imshaugia aleurites*.



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### 405. **Candelariella subdeflexa** (Nyl.) Lettau

**RUSSIA**, Orenburg Oblast, Buzuluk district, National Park 'Buzulukskiy bor', village Partizanskiy, bank of the river Borovka, 52°59'54"N, 052°07'42"E, 80 m above sea level, on bark of *Salix*, 23 May 2009, collected and determined by Jan Vondrák (7428) & Alexander Khodosovtsev.

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### 406. **Cetraria sepincola** (Ehrh.) Ach.

**AUSTRIA**, Kärnten (=Carinthia), Saualpe, 11.7 km SW of Bad St.Leonhard, 3.6 km SSW of Klippitztörl, 750 m NNE of the summit of Forstalpe, 46°54'15"N, 014°39'56"E, 1910 m above sea level, (grid number 9053/4), windblown ridge area (E-exposed) with some crippled grown *Larix decidua* (1 m tall), on living and dead twigs of *Larix decidua*, 8 September 2012, collected and determined by Walter Obermayer (12497).

Note: Associated lichens and fungi: *Lachnellula willkommii*, *Cetraria islandica* (!), *Hypogymnia physodes*, *H. tubulosa*, *Lecanora pulicaris* s.l., *L. symmicta*, *Parmeliopsis ambigua*, *Pseudevernia furfuracea* var. *ceratea*, *P.f.* var. *furfuracea* (very few thalli), *Vulpicida pinastri*.

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### 407. **Cetraria sepincola** (Ehrh.) Ach.

**AUSTRIA**, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 15 km W of Deutschlandsberg, N above the saddle Weinebene, Handalpe (=Handalm), ridge between the summits of Handalm and Weberkogel, 46°50'55"N, 015°01'00"E, 1820 m above sea level, (grid number 9156/3), subalpine pasture with boulders of gneissic rocks and scattered shrubs of *Rhododendron ferrugineum*, on twigs of *Rhododendron ferrugineum*, 21 March 2012, collected and determined by Helmut Mayrhofer (19109).

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### 408. **Cladonia macroceras** (Delise) Hav.

**SLOVENIA**, Central Eastern Alps, Styrian Prealps, Kobansko, mountain top ("Jantschkifels") 7.6 km NE above Dravograd (=Unterdrauburg), W above the chapel Sv.Urban, uppermost slopes exposed to S just below the summit, close to the border to Austria, 46°39'08"N, 015°03'49"E, 1360 m above sea level, (grid number 9356/1), scattered boulders of garnet schist on clearings in a spruce forest, on soil (amongst *Vaccinium myrtillus*), 20 July 2008, collected and determined by Josef Hafellner (71507).

Note: TLC: Fumarprotocetraric acid (specimen in GZU tested).

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**409. Cladonia uncialis (L.) Weber ex F.H.Wigg.**  
subspecies **biuncialis (Hoffm.) M.Choisy**

**AUSTRIA**, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, 20 km NW of the centre of Knittelfeld, Hochreichart, summit area, 47°21'49"N, 014°40'55"E, 2410 m above sea level, (grid number 8654/1), alpine boulder field, on mossy layers in shaded crevices (W-exposed), 28 August 2012, collected and determined by Walter Obermayer (12495).

Note: All issued specimens were separated from one big cushion. TLC: Usnic acid, squamatic acid, fatty acid (specimen in GZU tested); surface of central canal white powdery (UV+ white).

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**410. Gowardia nigricans (Ach.) Halonen et al.**  
(Syn.: *Alectoria nigricans (Ach.) Nyl.*)

**AUSTRIA**, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, 20 km NW of the centre of Knittelfeld, Hochreichart, summit area, 47°21'49"N, 014°40'55"E, 2410 m above sea level, (grid number 8654/1), alpine boulder field, on mossy layers in shaded crevices (W-exposed), 28 August 2012, collected and determined by Walter Obermayer (12476).

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**411. Normandina pulchella (Borrer) Nyl.**

**AUSTRIA**, Salzburg, Flachgau region (=Salzburg-Umgebung district), Schafberg massif, 6.2 km E of the centre of St. Gilgen am Wolfgangsee, 500 m E of the summit Spinnerin, near the small lake Mittersee, 47°46'26"N, 013°26'57"E, 1400 m above sea level, (grid number 8246/2), on N-exposed stem bark of *Acer pseudo-platanus* (partly on bryophytes), 28 May 2005, collected and determined by Roman Türk (37557).

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**412. Ochrolechia turneri (Sm.) Hasselrot**

**AUSTRIA**, Kärnten (=Carinthia), Gailtaler Alpen, E-facing slopes of Villacher Alpe, Warmbad Villach, Kadischen-Allee, 46°35'22"N, 013°49'37"E, 500 m above sea level, (grid number 9448/2), alley trees, on bark of *Aesculus hippocastanum*, 29 March 2010, collected and determined by Helmut Mayrhofer (18116).

Note: TLC: Variolaric acid (specimen in GZU tested).

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### 413. *Opegrapha rufescens* Pers.

**AUSTRIA**, Steiermark (=Styria), Steirisches Randgebirge, Gleinalpe, Sallagraben, 7 km NW of the centre of Köflach, 3 km ESE of Salla, road along the brook Sallabach, 47°06'17"N, 015°00'43"E, 690 m above sea level, (grid number 8856/3), on stem bark of *Alnus glutinosa*, 25 April 2012, collected by Toby Spribille (s.n.) [excursion together with Walter Obermayer], determined by Walter Obermayer.

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### 414. *Phaeophyscia hirtella* Essl.

**RUSSIA**, Southern Siberia, Republic of Buryatia (near the Mongolian boundary), Dzhida district, Dzhida Range, 15 km SW of Petropavlovka town, orographically right bank of the river Dzhida, 50°30'39.2"N, 105°10'34.2"E, 680 m above sea level, deciduous forest, on bark of *Ulmus pumila*, 24 August 2007, collected and determined by Gennadii Urbanavichus (s.n.).

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### 415. *Phaeophyscia kairamoi* (Vain.) Moberg

**RUSSIA**, Southern Siberia, Republic of Buryatia (near the Mongolian boundary), Dzhida district, Dzhida Range, SE of Petropavlovka town, 50°27'58.0"N, 105°09'39.7"E, 960 m above sea level, deciduous forest on northern slope, on bark of *Salix*, 24 August 2007, collected and determined by Gennadii Urbanavichus & Ira Urbanavichene (s.n.).

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### 416. *Schismatomma pericleum* (Ach.) Branth & Rostr.

**AUSTRIA**, Kärnten (=Carinthia), Karnische Alpen, 7.2 km SSW of the railway station of Kötschach-Mauthen, 3.5 km E of the pass area of 'Plöckenpass', valley of the rivulet 'Angerbach', forestry road to 'Untere Tschintenmuntalm', 46°36'30-35"N, 012°59'10-20"E, 1360–1400 m above sea level, (grid number 9343/4), mixed forest with *Fagus sylvatica*, *Picea abies*, and *Abies alba*, on stem bark of very old *Picea abies* (SW-exposed), 31 August 2007, collected by Walter Obermayer (12332), Helmut Mayrhofer and Regine Stordeur, determined by Walter Obermayer (2012).

OBERMAYER W. 2012: *Lichenotheca Graecensis*, Fasc. 21 (Nos 401–420). - Fritschiana 74: 43–48  
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### 417. *Solorina spongiosa* (Ach.) Anzi

**AUSTRIA**, Steiermark (=Styria), Niedere Tauern, Wölzer Tauern, mountains 4 km W of Pusterwald, ridge area between Sonneck and Kühnbrein, 47°18'25"N, 014°18'15"E, 1860 m above sea level, (grid number 8651/4), SE-exposed marble outcrops (in an open forest with *Picea abies* and *Pinus cembra*), on soil (slope of a forestry road), 3 August 2012, collected by Josef Hafellner (73218) & Lucia Muggia, determined by Josef Hafellner.

OBERMAYER W. 2012: *Lichenotheca Graecensis*, Fasc. 21 (Nos 401–420). - Fritschiana 74: 43–48  
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### 418. *Trapeliopsis granulosa* (Hoffm.) Lumbsch

**AUSTRIA**, Kärnten (=Carinthia), Hohe Tauern, Reißeck Group (=southern part of Ankogel Group), valley of the brook Kaponig-Bach, 500 m E of Bodenhütte, 46°57'53"N, 013°15'53"E, 1680–1730 m above sea level, (grid number 9045/2), on decayed wood of *Larix decidua*, 9 November 2011, collected and determined by Roman Türk (50172).

Note: TLC: Gyrophoric acid, traces of lecanoric acid and unknown substances (specimen in GZU tested).

OBERMAYER W. 2012: *Lichenotheca Graecensis*, Fasc. 21 (Nos 401–420). - Fritschiana 74: 43–48  
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### 419. *Umbilicaria hirsuta* (Sw. ex Westr.) Hoffm.

**AUSTRIA**, Kärnten (=Carinthia), Saualpe, 12.3 km SW of Bad St. Leonhard, 4.3 km SSW of Klippitztörl, summit area of Forstalpe, 46°53'95"N, 014°39'42"E, 2015 m above sea level, (grid number 9153/2), alpine meadows with big boulders ('Öfen'), on vertical (E-exposed) faces of siliceous rocks, 8 September 2012, collected and determined by Walter Obermayer (12517).

OBERMAYER W. 2012: *Lichenotheca Graecensis*, Fasc. 21 (Nos 401–420). - Fritschiana 74: 43–48  
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### 420. *Usnea densirostra* Taylor

**URUGUAY**, Montevideo Department, Punta Espinillo, shore of Rio de la Plata, 34°50'S, 056°23'W, 1-5 m above sea level, aerohaline zone, on rocks (along a small slope), 22 April 2009, collected and determined by Hector S. Osorio (9730).

Note: TLC: Usnic acid, norstictic acid, salazinic acid, traces of protocetraric acid, unknowns (specimen in GZU tested [apothecia included]).

## Selected exsiccates of *Caloplaca*, Fasc. 3 (Nos 51–75)

Jan VONDRÁK\*

VONDRÁK J. 2012: Selected exsiccates of *Caloplaca*, Fasc. 3 (Nos 51–75). - Fritschiana (Graz) 74: 49–57. - ISSN 1024-0306.

**Abstract:** Fascicle 3 of '*Selected exsiccates of Caloplaca*' comprises 25 collections of lichens from the following countries: Bulgaria (3), the Czech Republic (1), France (2), Greece (5), Italy (1), Kazakhstan (1), Romania (1), Russia (7), Turkey (1), and Ukraine (3). Isotype material of *Caloplaca syvashica* and paratypes of *Caloplaca neotaurica* and *Caloplaca skii* are distributed. All samples were identified by the author. ITS fingerprinting was carried out on the following collections: 51. *Caloplaca aractina*, 52. *Caloplaca arnoldii* subsp. *arnoldii*, 54. *Caloplaca communis*, 55. *Caloplaca concreticola*, 57. *Caloplaca diphyodes*, 64. *Caloplaca lucifuga*, and 68. *Caloplaca obscurella*.

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The exsiccate collection '*Selected exsiccates of Caloplaca*' is aimed at the distribution of samples of the genus *Caloplaca* (Teloschistales, lichenized fungi) from all over the world. Although modern molecular phylogenetic studies find the genus *Caloplaca* paraphyletic, the classical conception used in most recent checklists is followed here.

'*Selected exsiccates of Caloplaca*' is distributed on exchange basis to the following 15 herbaria and private collections: ASU, B, C, CANB, CBFS, F, GZU, H, LE, M, MIN, PRA, TNS, UPS, herb. Lendemer (herbarium acronyms are listed in the Index Herbariorum site <http://sweetgum.nybg.org/ih/>). Contributions to this exsiccate collection are welcome.

Abbreviations of authors of plant names are taken from <http://www.ipni.org/index.html>. Names of countries and regions are given in English. Names of municipalities are in local languages, but names in Cyrillic are phonetically transcribed to the Latin alphabet.

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### 51. *Caloplaca aractina* (Fr.) Häyrén (1914)

Bas.: *Parmelia aractina* Fr. (1825)

ITALY. Sardinia: Santa Teresa Gallura, coastal cliffs N of the town, alt. 0–30 m, 41°14'50"N, 9°11' 36"E.

Saxicolous on horizontal, sun-exposed faces of coastal rocks, in supralittoral zone.

Notes: Coastal populations of Atlantic and W-Mediterranean regions are morphologically similar to inland populations, recently called *Caloplaca viridirufa*, but their ecology is quite different: exposed rock faces in coastal habitats versus sheltered rock faces in inland habitats. Also ITS phylogeny separates coastal and inland populations into different clades (unpublished).

30.4.2012

leg. Jiří Malíček, Ivan Frolov, Jan Vondrák, det. Jan Vondrák

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### 52. *Caloplaca arnoldii* subsp. *arnoldii* (Wedd.) Zahlbr. ex Ginzb. (1915)

Bas.: *Lecanora arnoldii* Wedd. (1876)

GREECE. Poros Island: Poros, limestone outcrops in the northern part of the island, alt. about 200 m, 37°31'28"N, 23°29'10"E.

Saxicolous on vertical face of limestone outcrop, below overhang, in open pine forest.

Note: Identification confirmed by ITS fingerprinting.

31.10.2010

leg. Olga Vondráková & Jan Vondrák, det. Jan Vondrák

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### 53. *Caloplaca atroflava* (Turner) Mong. (1914)

Bas.: *Lecidea atroflava* Turner (1808)

FRANCE. Maritime Alps: Menton, Breil-sur-Roya, La Brigue, rocks in the valley of the brook La Levensa, alt. about 1100 m, 44°04'02"N, 7°38'17"E.

Saxicolous on sun-exposed nutrient-rich flat sandstone blocks, partly immersed in the soil.

28.4.2012

leg. Jiří Malíček, Ivan Frolov, Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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#### **54. *Caloplaca communis* Vondrák, Říha, Arup & Søchting (2009)**

KAZAKHSTAN. Mangistau region: Tupkaragan district, Caspian Sea coast, between Fort Shevchenko and Aktau, village Saura, rocky valley of the river Saura, alt. 0–100 m, 44°13' 53"N, 50°48'13"E.

Saxicolous on soft limestone coastal cliff.

Notes: *Caloplaca communis* is one of the few maritime lichens at coastal rocks of the Caspian Sea. The ITS sequence of the Caspian sample is identical with some of the Black Sea coast.

3.6.2009 leg. Olga Vondráková, Alexander Khodosovtsev & Jan Vondrák,  
det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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#### **55. *Caloplaca concreticola* Vondrák & Khodos. (2008)**

RUSSIA. Orenburg region: 15 km NE of Orenburg, village Grebeni, on a hill W of the village, alt. 120–160 m, 51°56'28"N, 55°16'48"E.

Saxicolous on sandstone blocks and pebbles on SE-exposed slope covered by shrubby steppe.

Note: Identification confirmed by ITS fingerprinting.

7.6.2011 leg. Ivan Frolov & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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#### **56. *Caloplaca decipiens* (Arnold) Blomb. & Forssell (1880)**

Bas.: *Physcia decipiens* Arnold (1867)

RUSSIA. Orenburg region: 30 km SSE of Orenburg, village Mikhaylovka, Bukabayskie yari, about 3 km E of the village, rocky slopes above the brook Bukabay, alt. about 200 m, 51°25'2.97"N, 55°24'8.04"E.

Saxicolous on SE-exposed calcareous sandstone outcrops in steppe.

6.6.2011 leg. Olga Vondráková, Ivan Frolov & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### 57. *Caloplaca diphyodes* (Nyl.) Jatta (1900)

Bas.: *Lecanora diphyodes* Nyl. (1872)

RUSSIA. Orenburg region: surroundings of the water reservoir “Iriklińskoe vodokhranilishche”, village Chapaevka, limestone rocks on the opposite slope of the lake NW of the village, alt. 270–290 m, 52°5'14"N, 58°48'9"E.

Saxicolous on E-exposed, slightly inclined limestone rocks in steppe.

Notes: In Northern Europe or in other European mountain regions, *Caloplaca diphyodes* rarely occurs on siliceous rocks close to rivers or lakes, but the same species is very common on dry and sunny limestone outcrops on the foothills of the SE Ural. ITS and  $\beta$ -tubulin sequences unite European and Ural populations into one clade (unpublished).

12.6.2011

leg. Ivan Frolov & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### 58. *Caloplaca epithallina* Lynge (1940)

RUSSIA. Republic of Bashkortostan: surroundings of the water reservoir “Iriklińskoe vodokhranilishche”, village Tashtugay, rocks in the valley of the river Tanalik, about 4 km S of the village, alt. 260–300 m, 51°56'13"N, 58°35'15"E.

Saxicolous on volcanic rock in steppe, lichenicolous on *Rhizoplaca* cf. *subdiscrepans*.

Note: Strictly host specific to *Rhizoplaca subdiscrepans*.

10.6.2011

leg. Ivan Frolov & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### 59. *Caloplaca epithallina* Lynge (1940)

RUSSIA. Republic of Altay: Kosh-Agach district, Kuray Steppe, limestone and gneiss hills, about 4 km W of Kuray, alt. 1470–1680 m, 50°14'N, 87°52'E.

Saxicolous on siliceous outcrops in steppe, lichenicolous on various lichens.

Note: Prefers *Dimelaena oreina* as its host, but also occurs on *Acarospora* sp., *Lecanora muralis*, *Neofuscelia* sp., *Rhizoplaca chrysoleuca*, etc.

31.10.2010

leg. Ivan Frolov & Jan Vondrák, det. Jan Vondrák



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### 60. *Caloplaca ferruginea* (Huds.) Th.Fr. (1861)

Bas.: *Lichen ferrugineus* Huds. (1762)

GREECE. Peloponnese: Menalo Mountains, Tripolis, Kardaras, *Abies cephalonica* forest, along the road between Kardaras and Vytina, alt. about 1200 m, 37°37'N, 22°16'E.

Corticolous on twigs of *Abies cephalonica*.

27.10.2010

leg. Olga Vondráková & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### 61. *Caloplaca ferrugineoides* H.Magn. (1944)

RUSSIA. Astrakhan region: Akhtubinsk district, village Nizhniy Baskunchak, shrub-by steppes at the salt lake Baskunchak, at sea level, 48°12'13"N, 46°49'39"E.

Corticolous on low shrubs in steppe.

10.6.2012

leg. Olga Vondráková, Alexander Khodosovtsev & Jan Vondrák,  
det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### 62. *Caloplaca irrubescens* (Arnold) Zahlbr. (1898)

Bas.: *Callopisma aurantiacum* var. *irrubescens* Arnold (1879)

FRANCE. Maritime Alps: Menton, Breil-sur-Roya, La Brigue, rocks in the valley of the brook La Levensa, alt. about 1000 m, 44°04'02"N, 7°38'17"E.

Saxicolous on yellow sandstone inclusion in S-exposed limestone rock.

28.4.2012

leg. Jiří Malíček, Ivan Frolov, Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### 63. *Caloplaca irrubescens* (Arnold) Zahlbr. (1898)

Bas.: *Callopisma aurantiacum* var. *irrubescens* Arnold (1879)

GREECE. Peloponnese: Methana, Kameni Chora, volcanic hills NW of the village, alt. 200–300 m, 37°37'3"N, 23°19'37"E.

Saxicolous on volcanic stones in open pine forest.

29.10.2010

leg. Olga Vondráková & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
Fritschiana 74: 49–57.

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### **64. *Caloplaca lucifuga* G.Thor (1988)**

CZECH REPUBLIC. South Bohemia: České Budějovice, Hluboká nad Vltavou, protected woodland area Karbanice in Vltava river valley, around 4.5 km N of the town, alt. 370 m, 49°5'49"N, 14°27'52"E.

Corticolous on bark of *Quercus robur*.

Note: Apothecia were never observed in this sorediate species. Its placement into Teloschistaceae was confirmed by ITS sequences (unpublished).

19.6.2010

leg. Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
Fritschiana 74: 49–57.

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### **65. *Caloplaca neotaurica* Vondrák, Khodos., Arup & Søchting (2012)**

- PARATYPE -

UKRAINE. Crimean Peninsula: Alushta, Kanakskaya balka botanical reserve, waterless ravine, alt. about 30 m, 44°46'51.98"N, 34°38'02.97"E.

Saxicolous on claystone pebbles.

Note: Rare phenotype with grey-black apothecia without anthraquinones.

15.6.2008

leg. Alexander Khodosovtsev & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### **66. *Caloplaca neotaurica* Vondrák, Khodos., Arup & Søchting (2012)**

- PARATYPE -

UKRAINE. Crimean Peninsula: Sudak, near the village Dachne, alt. about 150 m, 44°53'N, 34°59'E.

Saxicolous on schist pebbles in open scrubland.

Note: Common phenotype with orange-red apothecia with anthraquinones.

22.6.2008

leg. Alexander Khodosovtsev & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### **67. *Caloplaca obscurella* (J.Lahm ex Körb.) Th.Fr. (1871)**

Bas.: *Blastenia obscurella* J. Lahm 1860

RUSSIA. Black Sea coast: Tuapse, alley of *Platanus* in Lazarevskoye, alt. 10 m, 43°55'49"N, 39°18'28"E.

Corticolous on bark of *Platanus*.

Note: Population with relatively few soralia but unusually rich in apothecia.

16.5.2007

leg. Jan Vondrák & Jaroslav Šoun, det. Jan Vondrák

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### **68. *Caloplaca obscurella* (J.Lahm) Th.Fr. (1871)**

Bas.: *Blastenia obscurella* J. Lahm 1860

BULGARIA. Pirin Mountains (foothills): Sandanski, at the road between Laskarevo and Melnik, alt. about 200 m, 41°29'N, 23°20'E.

Corticolous on bark of solitary *Robinia pseudacacia*.

Note: Sterile, but extensive and richly sorediate crust; its identification was confirmed by ITS sequence.

10.10.2010

leg. Olga Vondráková & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### **69. *Caloplaca peludella* (Nyl.) Hasse (1913)**

Bas.: *Lecanora peludella* Nyl. (1898)

GREECE. Meteora: Kalampaka, conglomerate towers NE of the town, alt. 400–500 m, 39°42'46"N, 21°37'55"E.

Saxicolous on horizontal faces of sun-exposed conglomerate terraces.

Notes: Although this name is usually spelled '*Caloplaca pelodella*' or '*C. pellodella*', I prefer the original spelling, based on *Lecanora peludella* Nyl. in Hasse 1898: 10. - The similar *Caloplaca xerica* is intermixed in some samples!

22.10.2010

leg. Olga Vondráková & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### **70. *Caloplaca phaeothamnos* Kalb & Poelt (1985)**

TURKEY. Kurdistan: Lake Van, lava stream 7 km W of Ünseli, alt. 1670 m, 38°59' 49"N, 43°30'1"E.

Muscicolous in moss cushions on volcanic boulders in steppe.

11.5.2007

leg. Jan Vondrák & Jaroslav Šoun, det. Jan Vondrák

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### **71. *Caloplaca rubelliana* (Ach.) Lojka (1873)**

Bas.: *Lecanora rubelliana* Ach. 1810

GREECE. Peloponnese: Methana, Kameni Chora, volcanic hills NW of the village, alt. 200–300 m, 37°37'3"N, 23°19'37"E.

Saxicolous on volcanic stones in open pine forest.

29.10.2010

leg. Olga Vondráková & Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
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### **72. *Caloplaca skii* Khodos., Vondrák & Šoun (2012)**

- PARATYPE -

BULGARIA. Black Sea coast: Burgas, 5.5 km S of Sozopol, sand dunes near the seashore, at sea level, 42°21'59"N, 27°42'31"E.

Corticolous on bark of Asclepiadaceae shrub.

9.4.2007

leg. Jan Vondrák & Jaroslav Šoun, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
Fritschiana 74: 49–57.

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### **73. *Caloplaca skii* Khodos., Vondrák & Šoun (2012)**

ROMANIA. Dobruja: Tulcea, Popina Island (Insula Popina) in Razim Lake (Lacul Razim), E coast, alt. 0–20 m, 44°58'03"N, 28°58'57"E.

Corticolous on low shrubs in steppe.

3.4.2012

leg. Jan Vondrák & Jaroslav Šoun, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
Fritschiana 74: 49–57.

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**74. *Caloplaca syvashica* Khodos., Vondrák  
& Šoun (2012)**

- ISOTYPE -

UKRAINE. Crimean Peninsula: Sivash lake, Krasnoperekopsk, Nadezhdino, salt marshes at a small, shallow gulf S of the village, at sea level, 46°01'48"N, 33°59'43"E.

Corticolous on woody stems of *Limonium suffruticosum*.

8.6.2006

leg. Jan Vondrák, det. Jan Vondrák

Vondrák J. 2012: **Selected exsiccates of *Caloplaca***, Fasc. 3 (Nos 51–75).  
Fritschiana 74: 49–57.

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**75. *Caloplaca xerica* Poelt & Vězda (1975)**

BULGARIA. Stara Planina Mountains: Sofia, Novi Iskar, in the valley of the river Iskar, N of the town, alt. 600 m, 42°50'28"N, 23°21'44"E.

Saxicolous on sandstone outcrop in forest-steppe.

21.10.2010

leg. Olga Vondráková & Jan Vondrák, det. Jan Vondrák

### **Bisher erschienen - hitherto published**

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