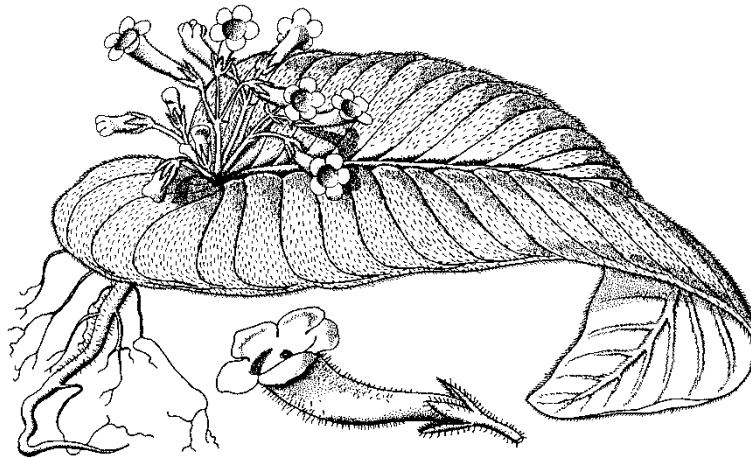


FRITSCHIANA

83



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

Walter OBERMAYER

Dupla Graecensia Lichenum (2016, numbers 1021–1100)

Josef HAFELLNER

Lichenicolous Biota (Nos 231–250)

**Additional records of *Gyalideopsis mexicana* (lichenized
Ascomycota)**

Josef HAFELLNER & Toby SPRIBILLE

***Tingiopsidium* - the correct name for *Vestergrenopsis* as
currently delimited (Peltigerales, Koerberiaceae)**

Graz, 22. Dezember 2016

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 konnte das neu errichtete Institutsgebäude bezogen werden. 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:

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FRITSCHIANA

Veröffentlichungen aus dem
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(Bereich Systematische Botanik und Geobotanik)
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Walter OBERMAYER

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Graz, 22. Dezember 2016

Neukombinationen in diesem Heft / new combinations in this issue:

Tingiopsidium elaeinum (Wahlenb. ex Ach.) Hafellner & T.Sprib., combinatio nova (page 48). [MycoBank 817685]

Tingiopsidium isidiatum (Degel.) Hafellner & T.Sprib., combinatio nova, (page 49). [MycoBank 817686]

Tingiopsidium sonomense (Tuck.) Hafellner & T.Sprib., combinatio nova, (page 49). [MycoBank 817687]

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Dupla Graecensia Lichenum (2016, numbers 1021–1100)

Walter OBERMAYER*

OBERMAYER W. 2016: Dupla Graecensia Lichenum (2016, numbers 1021–1100). - Fritschiana (Graz) 83: 1–23. - ISSN 1024-0306.

Abstract: The exsiccata 'Dupla Graecensia Lichenum (2016, numbers 1021–1100)' comprises 80 collections (463 specimens) of lichen duplicates from the following 12 countries: Albania (Lezhë district), Australia (state Western Australia), Austria (states Carinthia, Lower Austria, Salzburg, and Styria), Brazil (Mato Grosso), Croatia (Istria), France (region Rhône-Alpes), Germany (states Baden-Württemberg and Bavaria), Greece (Corfu Island and Crete), Italy (regions Friuli - Venezia Giulia and Toscana), Mexico (Chihuahua), Slovenia, and Spain (Mallorca). TLC-investigations were carried out for 13 lichenized taxa. Isotype-specimens of *Ramboldia crassithallina* (each specimen additionally including an isotype of *Ramboldia soreliata*) are distributed.

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The dwarf-exsiccata 'Dupla Graecensia Lichenum' is issued by the herbarium of the Institute for Plant Sciences of the Karl-Franzens-Universität, Graz, Austria (international herbarium acronym: GZU). It includes lichens from all over the world with at least five duplicates of each collection. Each institution receiving a duplicate is cited (at the bottom line of each individual label) with its international herbarium acronym: The herbaria in Canberra (CANB), Graz (GZU), Munich (M), New York (NY), and Uppsala (UPS) are receiving specimens of all distributed numbers continuously. 'Dupla Graecensia Lichenum' is published as text version (with online corrections) under <http://www-classic.uni-graz.ac.at/walter.obermayer/dupl-graec.htm>. A downloadable PDF-file can be found under <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-83/dupla-graecensia-lichenum-2016.pdf>. Label texts originally drafted in a local language have been translated into English by the author. The names of authors of lichenized fungi are given in a NOT abbreviated style and are (mostly) taken from 'The International Plant Names Index' (IPNI) (see <http://www.ipni.org/ipni/plantnamesearchpage.do>). The geographical classification system of the European Alps (using the terms 'Western Alps', 'Central Alps', 'Eastern Alps', and 'Southern Alps') follows a classification used by e.g. Stüwe & Homberger 2011: Die Geologie der Alpen aus der Luft. - Gnas: Weishaupt.

I wish to thank all the collectors and keepers of private herbaria for their contributions, in particular Anton DRESCHER, Josef HAFELLNER, Klaus KALB, Paul LEONHARDT, Helmut MAYRHOFER, Florian MÜHLBACHER, and Roman TÜRK. The following individuals are kindly acknowledged for determination work: Andreas FRISCH, Ivan FROLOV, Josef HAFELLNER, Jiří MALÍČEK, Helmut MAYRHOFER, and Jan VONDRÁK.

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1021. Acolium karelicum (Vainio) Maria Prieto & Wedin
[Synonym: *Cyphelium karelicum*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 11.4 km southwest of the centre of Judenburg, 3 km north of the summit of Zirbitzkogel, east facing slopes of Kreiskogel (250 m west of the lake Großer Winterleitensee), 47°05'24"N, 014°33'40"E, (grid number 8953/1), elevation 1870 m, open stand with *Alnus alnobetula*, *Sorbus aucuparia* and *Pinus cembra*, on wood of *Pinus cembra* (exposed to the southeast). – 30 November 2014, collected and determined by Walter Obermayer (13301).

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1022. Alectoria sarmentosa (Acharius) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northwestern part of Kemetgebirge, 10 km northwest of the centre of Gröbming, 2.5 km southwest of the summit of Hierzberg, path from Schildenwangalm to Plankenalm, slopes of Mooseck, 47°28'35-59"N, 013°46'15-30"E, (grid number 8548/2), elevation 1650–1730 m, open coniferous forest (with dominant *Pinus cembra*, subdominant *Larix decidua* and intermixed *Picea abies*), on stem bark of *Pinus cembra*. – 2 October 2015, collected by Walter Obermayer (13611) & Florian Mühlbacher, determined by Walter Obermayer.

Note: All issued specimens contain material, which is by some authors regarded as *Alectoria sarmentosa* subsp. *vexillifera* (with an - at least partly - strongly flattened thallus). TLC (Obermayer): Usnic acid (maj.), alectoronic acid (maj.), unknown (submaj.; in B' above alectoronic acid).

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1023. Amandinea punctata (Hoffmann) Coppins & Scheidegger

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, 3.9 km northwest of the centre of Schladming, 2.4 km south-southwest of the centre of Ramsau, Vorberg, 1 km west of the inn 'Stocker', 47°24'11"N, 013°38'20"E, (grid number 8547/4), elevation 1085 m, meadows with some avenue trees, on stem bark of *Acer pseudoplatanus*. – 16 February 2015, collected and determined by Walter Obermayer (13330).

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1024. *Arthonia radiata* (Persoon) Acharius

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland (=Südöstliches Alpenvorland), Oststeirisches Riedelland, 7.3 km east-northeast of the centre of Graz, road from Ragnitz to Hönigtal, 600 m southwest of Neudörfel, near the soccer field, 47°05'02"N, 015°31'55"E, (grid number 8959/1), elevation 440 m, edge of a forest, on stem bark of *Carpinus betulus*. – 21 July 2014, collected and determined by Walter Obermayer (13186).

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1025. *Arthonia vinosa* Leighton

GERMANY, Baden-Württemberg, Main-Tauber district, 33 km southwest of the centre of Würzburg, 8 km south of the centre of Tauberbischofsheim, 3 km west-southwest of Lauda-Königshofen, 49°33'05"N, 009°39'53"E, (grid number 6424), elevation 370 m, oak forest, on strongly decayed wood of *Quercus robur*. – 28 December 2015, collected by Roman Türk (56514), determined by Walter Obermayer (2016).

distributed to: **CANB, E, GZU, M, NY, UPS, hb. Kalb**

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1026. *Astrochapsa zahlbruckneri* (Redinger) Parmen, Lücking & Lumbsch

BRAZIL, Mato Grosso, Serra dos Coroados, 6 km southwest of Buriti, nature protection area of the 'evangelical church' of Buriti, elevation 600 m, submontane rain forest, on bark. – 8 July 1980, collected by Klaus Kalb (26854), determined by Andreas Frisch (2001).

Note: TLC (Kalb): Stictic (maj.), hypostictic (submaj.), cryptostictic (min.) acids [specimens in GZU and CANB]; psoromic (maj.), stictic (maj.), hypostictic acids (submaj.) [specimen in UPS].

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1027. *Atla alpina* Savić & Tibell

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Saualpe, 15 km west of the centre of Wolfsberg, 4.5 km south-southwest of Klippitztörl, 0.5 km southwest of the summit of Forstalpe, 46°53'45"N, 014°39'30"E, (grid number 9153/2), elevation 2030 m, low marble outcrops on the south-facing slope, on inclined faces of coarsely crystalline marble rocks. – 25 July 2009, collected by Josef Hafellner (73607) & Angela Hafellner, determined by Josef Hafellner.

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1028. Blastenia ferruginea (Hudson) Abramo Massalongo
[Synonym: *Caloplaca ferruginea*]

CROATIA, Istria, Vrsar, 200 m north of the harbour, 100 m east of the bathing beach, path to a vantage point on a small rocky hill, 45°09'08"N, 013°35'58"E, elevation 11 m, on twigs of *Pistacia terebinthus*. – 23 September 2016, collected and determined by Walter Obermayer (13702).

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1029. Blastenia herbidella (Hue) Servít
[Synonym: *Caloplaca herbidella*]

GERMANY, Bayern (=Bavaria), Eastern Alps, Northern Limestone Alps, Allgäu Alps, 3.5 km southeast of Hohenschwangau, Bleckenau, 47°32'N, 010°46'E, elevation 1200 m, on bark of *Acer pseudoplatanus*. – 28 August 1968, collected by Adolf Schröppel (s.n.), determined by Ivan Frolov (2013).

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1030. Bryoria fuscescens (Gyelnik) Brodo & David Hawksworth [in a broad sense]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, Kemetgebirge, 6.7 km southwest of the centre of Bad Mitterndorf, path from Goseritzalm to Hochmühleck, 230 m east of the summit of Hochmühleck, 47°31'01"N, 013°51'40"E, (grid number 8449/3), elevation 1650–1660 m, mixed forest with dominant *Larix decidua*, on bark of *Larix decidua* (1.5-2 m stem height, northwest exposed). – 15 July 2015, collected and determined by Walter Obermayer (13424) [excursion together with Josef Hafellner and Florian Mühlbacher].

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1031. Buellia griseovirens (Turner & Borrer ex Smith) Almborn

GERMANY, Baden-Württemberg, Main-Tauber district, 29 km southwest of the centre of Würzburg, west of Lauda-Königshofen, near Gerlachsheim, Tauberberg, 49°34'18"N, 009°43'33"E, (grid number 6424), elevation 340 m, edge of a forest, on bark of *Ulmus*. – 7 April 2016, collected and determined by Roman Türk (56515).

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1032. *Calicium denigratum* (Vainio) Tibell

AUSTRIA, Salzburg, Eastern Alps, High Tauern, Pinzgau Region (=Zell am See District), Granatspitz Group, area of 'High Tauern National Park', 15.3 km south-southeast of the centre of Mittersill, 800 m northwest of Enzingerboden, south of the summit of Wiegenköpfe, 47°10'39"N, 012°37'09"E, (grid number 7863/1), elevation 1725 m, upper montane forest, on wood of *Pinus cembra*. – 23 July 2013, collected and determined by Roman Türk (52162).

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1033. *Calicium tigillare* (Acharius) Persoon

[Synonym: *Cyphelium tigillare*]

GERMANY, Bayern (=Bavaria), Eastern Alps, Northern Limestone Alps, Allgäu Alps, northeast of Sonthofen, Grünten, southwest-running ridge just south of Grüntenhaus, 47°33'00"N, 010°18'55"E, elevation 1600 m, clearing in a subalpine forest with *Picea abies*, on a snag of *Picea abies*. – 7 September 2004, collected and determined by Josef Hafellner (79473).

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1034. *Calicium tigillare* (Acharius) Persoon

[Synonym: *Cyphelium tigillare*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Östliches Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of St.Radegund, 70 m east of Schöcklkopf, 47°12'10"N, 015°28'41"E, (grid number 8758/4), elevation 1280 m, southeast exposed steep slopes with calcareous outcrops, on standing deadwood. – 15 November 2015, collected and determined by Walter Obermayer (13609).

Note: All specimens with intermixed *Buellia arborea* and *Pycnora sorophora*.

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1035. *Calicium viride* Persoon

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, Kemetgebirge, Stoderzinken, 7.5 km west-northwest of Gröbming, 'Brandner Urwald', along the path from Brünnerhütte to Grafenbergalm, 47°27'55"N, 013°48'10"E, (grid number 8548/2), elevation 1700 m, mixed forest with *Picea abies*, *Larix decidua* and *Pinus cembra*, on stem bark of *Picea abies*. – 31 July 2015, collected by Paul Leonhardt (163) [excursion together with Florian Mühlbacher, Josef Hafellner, and Walter Obermayer], determined by Paul Leonhardt and Walter Obermayer.

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1036. *Caloplaca cerina* (Hedwig) Theodor Fries [aggregate]

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland (=Südöstliches Alpenvorland), Oststeirisches Riedelland, 6.7 km northeast of the centre of Graz, along the road from Stifting via Rohrbach to Schillingsdorf, 47°06'07"N, 15°30'55"E, (grid number 8859/3), elevation 445 m, small meadow area between the road and a brook, on twigs of *Salix fragilis* (fallen down from treetop). – 10 May 2014, collected and determined by Walter Obermayer (13168).

Note: Different morpho(genotype)s may be present on each specimen.

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1037. *Candelaria concolor* (Dickson) Arnold

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland (=Südöstliches Alpenvorland), Grazer Feld, urban area of Graz, 2.8 km north-northwest of the centre of Graz, between Gustav-Scheerbaum-Promenade and Uferweg, 47°05'35"N, 015°25'12"E, (grid number 8958/2), elevation 355 m, allotment garden, on bark of *Malus domestica*. – 3 May 2014, collected and determined by Walter Obermayer (13166).

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1038. *Carbonea vorticosa* (Flörke) Hertel

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 9.5 km west of Obdach, cwm south below the summit of Zirbitzkogel, terrain rim at the southeastern shore of the lake Lavantsee, 47°03'35"N, 014°34'40"E, (grid number 8953/1), elevation 2060 m, small outcrops (polished by lokal glaciers of former ice ages), on northwest-exposes rock-faces (near the ground). – 26 July 2007, collected by Josef Hafellner (82604) & Angela Hafellner, determined by Josef Hafellner.

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1039. *Chaenotheca ferruginea* (Turner ex Smith) Migula

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, 4 km west of the centre of Weiz, gorge of the river Raab ('Raabklamm'), orographically left side of the river, 47°12'51"N, 015°34'02"E, (grid number 8759/3), elevation 520-535 m, small ridge in a mixed forest with schist outcrops and small boulders of feldspar rich pegmatite, on bark of *Picea abies*. – 5 November 2014, collected and determined by Walter Obermayer (13291) [excursion together with Josef Hafellner and André Aptroot].

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1040. *Cladonia ecmocyna* Leighton

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, slopes southeast above Chamonix, southwest of Refuge du Plan de l'Aiguille, 45°54'18"N, 006°52'56"E, elevation 2200 m, scree and scattered boulders of siliceous schist in dwarf shrub heath slightly above the tree line (exposed to northwest), on ground (in *Vaccinium* heath). – 18 August 2011, collected and determined by Josef Hafellner (82739).

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1041. *Cladonia fimbriata* (Linnaeus) Fries

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Joglland, 7.8 km east-northeast of the centre of Birkfeld, 2.6 km east-northeast of the centre of Miesenbach, immediate vicinity of Kreuzwirt, 47°22'50"N, 015°47'30"E, (grid number 8660/2), elevation 1040 m, farming land, on plant remnants (on a low ridge of clearance cairns at the edge of a forest). – 11 October 2003, collected and determined by Josef Hafellner (61736).

distributed to: **CANB, E, GZU, M, NY, UPS, hb. Kalb**

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1042. *Cladonia pocillum* (Acharius) Grognot

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, Kemetgebirge, 6.3 km southwest of the centre of Bad Mitterndorf, Goseritzalm (along the path to Hochmühleck), 47°31'20"N, 013°51'45"E, (grid number 8449/3), elevation 1420-1470 m, pasture with scattered limestone rocks, on bryophytes (above rocks). – 15 July 2015, collected and determined by Walter Obermayer (13422) [exkursion together with Josef Hafellner and Florian Mühlbacher].

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

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1043. *Cladonia rangiformis* Hoffmann

GERMANY, Baden-Württemberg, Main-Tauber District, 29 km southwest of the centre of Würzburg, west of Lauda-Königshofen, near Gerlachsheim, Tauberberg, 49°34'21"N, 009°43'31"E, elevation 350 m, semi-arid grassland (above shell limestone), on ground. – 7 April 2016, collected and determined by Roman Türk (56250).

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1044. *Clauzadea monticola* (Acharius) Hafellner & Bellemère

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Saualpe, 9.2 km west-southwest of the centre of 'Bad St.Leonhard', 200 m south of Klippitztörl, path from the pass to the summit of Geierkogel, 46°56'05"N, 014°40'30"E, (grid number 9054/3), elevation 1680 m, slopes of a logging road (in a high-montane spruce forest), on loose marble stones. – 26 July 2009, collected and determined by Josef Hafellner (73816).

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1045. *Coenogonium pineti* (Acharius) Lücking & Lumbsch [Synonym: *Dimerella pineti*]

ITALY, Friuli - Venezia Giulia, Province of Udine, Southern Alps, Carnic Alps, 3.8 km west-northwest of Ampezzo, Passo di Pura, immediate vicinity of 'Rifugio Alpino Tita Piazz', 46°25'30"N, 012°44'30"E, elevation 1400 m, mixed forest with *Fagus sylvatica*, *Abies alba*, and *Picea abies* (above limestone), on remnants of bark covering a decayed tree stump. – 17 August 1994, collected and determined by Josef Hafellner (76993).

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1046. *Dimelaena oreina* (Acharius) Norman [chemotype I, with fumarprotocetraric acid]

AUSTRIA, Tyrol, Eastern Alps, Ötztal Alps, 7.7 km south-southeast of Sölden, road from Hochgurgl to Timmelsjoch, 1 km north of the centre of Hochgurgl, near 'Maut', 46°54'42"N, 011°03'19"E, (grid number 9032/3), elevation 2220 m, dwarf shrub heath with large boulders, on siliceous rock. – 18 September 2014, collected and determined by Helmut Mayrhofer (20289).

Note: TLC (Obermayer; all specimens have been tested twice or three times): Usnic acid, fumarprotocetraric acid, protocetraric acid (in traces), unknown substance in some samples present (UV+ yellow; 6/4/5-6). Specimens in CANB, NY, and UPS additionally contain thalli of the chemotype Va (stictic acid syndrome). - Specimens partly intermixed with *Rhizoplaca chrysoleuca*, *Ramalina capitata* or *Rhizoplaca melanophthalma* (the latter in CANB only). *Rhizocarpon renneri*, a rare parasitic lichen on *Dimelaena oreina*, which was found on one specimen, has been separated and is stored in GZU (Mayrhofer 20290).

distributed to: **CANB, E, GZU, M, NY, UPS, hb. Kalb**

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1047. *Evernia divaricata* (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 9.7 km west-northwest of the centre of Obdach, 400 m northeast below Winterleitenhütte, along the natural toboggan run, 47°05'49"N, 14°34'28"E, (grid number 8953/1), elevation 1730 m, forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on twigs of *Picea abies*. – 30 November 2014, collected and determined by Walter Obermayer (13312).

Note: All issued specimens contain thalli with apothecia.

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1048. *Felipes leucopellaeus* (Acharius) Frisch & Göran Thor

[Synonym: *Arthonia leucopellaea*]

GERMANY, Bayern (=Bavaria), Eastern Alps, Northern Limestone Alps, Ammergau Alps (= 'Ammergebirge'), 14.5 km southwest of Oberammergau, northwest facing slopes of Kreuzspitze, 'Bei den sieben Quellen', 47°32'20"N, 10°54'00"E, elevation 1080 m, mixed forest, on bark of *Abies alba*. – 5 September 2004, collected and determined by Josef Hafellner (79699).

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1049. *Flavocetraria cucullata* (Bellardi) Kärnefelt & Arne Thell

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 9 km west of Obdach, small path from Lindersee (along the ridge) to the summit Zirbitzkogel, 300 m south of the lake Lindersee, 47°04'06"N, 14°34'12"E, (grid number 8953/1), elevation 2200 m, windblown ridge area (north-northeast-exposed), on ground. – 19 October 2014, collected and determined by Walter Obermayer (13230).

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

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1050. *Flavoparmelia caperata* (Linnaeus) Hale

CROATIA, Istria, Vrsar, 200 m north of the harbour, 100 m east of the bathing beach, path to a vantage point on a small rocky hill, 45°09'08"N, 13°35'58"E, elevation 11 m, on branches and twigs of *Pistacia terebinthus*. – 23 September 2016, collected and determined by Walter Obermayer (13694).

Note: Partly intermixed with *Flavoparmelia soledians*.

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1051. *Flavoparmelia soledians* (Nylander) Hale

CROATIA, Istria, Vrsar, 200 m north of the harbour, 100 m east of the bathing beach, path to a vantage point on a small rocky hill, 45°09'08"N, 013°35'58"E, elevation 11 m, on branches and twigs of *Pistacia terebinthus*. – 23 September 2016, collected and determined by Walter Obermayer (13693).

Note: Partly intermixed with *Flavoparmelia caperata*. Specimen in GZU with additional *Punctelia subrudecta*.

distributed to: **CANB, GZU, E, M, NY, UPS, hb. Kalb**

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1052. *Fuscopannaria leucosticta* (Tuckerman) Per Magnus Jørgensen

GREECE, Crete, Nomós Chania, 15 km south-southeast of Kolimbari, 2 km north of Nea Roumata, 35°25'N, 023°51'E, along a brook, on stem bark of *Castanea sativa*. – 12 May 1999, collected by Helmut Mayrhofer (20793b) & Eva Baloch, determined by Helmut Mayrhofer (2015).

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1053. *Gyalecta foveolaris* (Acharius) Schaerer

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, Col de Tricot southeast above of Bionnassay, southeast of the saddle at the lowermost cliffs of the west ridge of Pointe Inférieure de Tricot, 45°51'00"N, 006°46'15"E, elevation 2160 m, low cliffs exposed to the northwest, on soil. – 20 August 2011, collected and determined by Josef Hafellner (83033).

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1054. *Gyalideopsis mexicana* Tretiach, Giralte & Vězda

MEXICO, Chihuahua, Sierra Madre Occidental, Barranca del Cobre, secondary valley about 10 km south of Basihuare, 27°26'20"N, 107°29'20"W, elevation 1800 m, pine-oak forest with sandstone boulders along a riverbank, on mosses (and temporarily moist earth). – 21 July 1994, collected and determined by Josef Hafellner (55520).

Note: All issued specimens fertile.

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1055. *Lecania naegelii* Nylander

ALBANIA, Northern Albania, Lezhë district, at the coast of the Adriatic Sea, southwest of the town Lezhë, Kuna Vain Lagune south of the mouth of the river Drin, 41°44'20"N, 019°34'50"E, elevation 5 m, remnants of a coastal forest (200 m from the beach), on bark of young *Fraxinus* spec. – 16 August 2007, collected and determined by Josef Hafellner (80822) [excursion together with Mauro Tretiach, Lucia Muggia, Massimiliano Piccotto, and Jani Marka].

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1056. *Lecanora argentata* (Acharius) Malme

AUSTRIA, Salzburg, Eastern Alps, Salzkammergut Mountains, Flachgau region, 20 km northeast of the centre of Salzburg, 3.7 km southeast of 'Neumarkt am Wallersee', valley of Steinbach, 1.4 km southeast of Haslach, 47°55'12"N, 013°15'29"E, (grid number 8045/4), elevation 601 m, on bark of *Fraxinus excelsior*. – 31 March 2007, collected by Roman Türk (41518), confirmed by Jiří Malíček (2016).

Note: The specimens show the typical 'subrugosa-form' (*Lecanora subrugosa* recently has been included into *L. argentata*).

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1057. *Lecanora varia* (Hoffmann) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 8.6 km west of Obdach, path from Linderhütte via Lindersee to the summit of Zirbitzkogel, 1 km northeast of Lindersee, 47°04'37"N, 014°34'47"E, (grid number 8953/1), elevation 1850–1900 m, timberline (with *Pinus cembra*, *Larix decidua* and *Picea abies*), on deadwood of *Pinus cembra*. – 19 October 2014, collected and determined by Walter Obermayer (13256).

Note: TLC (Obermayer; specimen in GZU tested): Usnic acid, psoromic acid, 2'-O-demethylpsoromic acid, unknown. The specimen in GZU is infected with *Ramboldia insidiosa*.

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1058. *Lecidea atrobrunnea* (De Candolle) Schaerer

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Chablais Alps, Tête Pelouse east above Flaine, southwest ridge northeast above Col de Plate, 45°59'53"N, 006°43'59"E, elevation 2400 m, cliffs of andesite, on vertical rock faces (exposed to the southeast). – 19 August 2011, collected and determined by Josef Hafellner (82748).

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1059. *Lecidella elaeochroma* (Acharius) Maurice Choisy

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northwestern part of Kemetgebirge, 11.2 km northwest of the centre of Gröbming, 1.4 km southwest of the summit of Hierzberg, 700 m north-northeast of Plankenalm (southern hut area), 47°29'43"N, 013°46'23"E, (grid number 8548/2), elevation 1810-1850 m, terrain edge, open forest with *Larix decidua* and *Pinus cembra* with intermixed *Pinus mugo* (above limestone), on twigs of *Rhododendron hirsutum*. – 2 October 2015, collected by Florian Mühlbacher (294), determined by Florian Mühlbacher and Walter Obermayer.

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1060. *Lepra albescens* (Hudson) Hafellner

[Synonym: *Pertusaria albescens*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Östliches Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of St.Radegund, 70 m east of Schöcklkopf, 47°12'03"N, 015°28'37"E, (grid number 8758/4), elevation 1340-1370 m, edge of a forest (southeast-exposed), on stem bark of *Acer pseudoplatanus*. – 15 November 2015, collected and determined by Walter Obermayer (13614).

Note: TLC (Obermayer; specimen in GZU tested): Three fatty acids of the allo-pertusaric acid complex. Thalli partly overgrowing living mosses and jungermannoid liverworts.

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1061. *Lepra corallina* (Linnaeus) Hafellner

[Synonym: *Pertusaria corallina*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 11.6 km southwest of the centre of Judenburg, path from Winterleitenhütte along the southern shore of the lake 'Kleiner Winterleitensee' to 'Großer Winterleitensee', 300 m southwest of Winterleitenhütte, 47°05'31"N, 014°34'05"E, (grid number 8953/1), elevation 1815 m, small boulder field, on vertical surface of siliceous rock (near ground). – 30 November 2014, collected and determined by Walter Obermayer (13309).

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1062. *Lepraria finckii* (de Lesdain) Richard Harris

[Synonym: *Lepraria lobificans*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Östliches Grazer Bergland, Schöckl-area, 3.2 km north-northwest of St.Radegund, path from Schöcklkreuz via Hammerschlag to Jahndenkmal, 700 m north-northeast of the summit of Schöckl, 47°12'16"N, 015°28'09"E, (grid number 8758/4), elevation 1290 m, north exposed cut slope of a forestry road, on bryophytes and plant remnants. – 22 October 2014, collected by Helmut Mayrhofer (20294), determined by Walter Obermayer (2014).

Note: TLC (Obermayer; all specimens tested): Atranorin, zeorin, stictic acid syndrome. A second leprarioid lichen is partly intermixed (very fine, greenish soredia, which are partly covered with an orange layer; mostly on twigs of bryophytes; TLC: Atranorin, zeorin, skyrin, placodiolic acid [?], unknown substances).

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1063. *Letharia vulpina* (Linnaeus) Hue

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 11.4 km southwest of the centre of Judenburg, 3 km north of the summit of Zirbitzkogel, east facing slopes of Kreiskogel (250 m west of the lake Großer Winterleitensee), 47°05'24"N, 014°33'40"E, (grid number 8953/1), elevation 1870 m, open stand with *Alnus alnobetula*, *Sorbus aucuparia* and *Pinus cembra*, on bark and wood of *Pinus cembra* (exposed to the southeast) and on mica schist (below *Pinus cembra*). – 30 November 2014, collected and determined by Walter Obermayer (13635).

Note: The specimen in GZU is infected with the lichenicolous fungus *Phacopsis vulpinae*.

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1064. *Lobaria pulmonaria* (Linnaeus) Hoffmann

ITALY, Toscana, Pratomagno, Torrente di Capraia, 3 km northwest of Pontenano, vicinity of the church ruin 'Badia S.Trinità', 43°36'34"N, 011°43'51"E, elevation 760 m, on stem bark of *Castanea sativa* (near ground). – 16 September 2014, collected and determined by Anton Drescher (s.n.).

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1065. *Melanelixia glabra* (Schaerer) Oscar Blanco and others

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, 4.4 km northwest of the centre of Schladming, 370 m west of the centre of Ramsau, 100 m east of the farmstead Engelhardthof, along a small dead end road (close to the main road from Ramsau to Filzmoos), 47°25'21"N, 013°38'52"E, (grid number 8547/4), elevation 1140 m, alley with *Acer pseudoplatanus*, on stem bark of *Acer pseudoplatanus*. – 19 February 2014, collected and determined by Walter Obermayer (13112).

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1066. *Micarea lignaria* (Acharius) Hedlund

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, High Tauern, Kreuzeck Group, 4.7 km north-northwest of Greifenburg, Nassfeldriegel, north-facing slopes of the east-facing ridge, along the path from 'Emberger Alm' to 'Turgger Alm', 46°47'15"N, 013°09'10"E, (grid number 9244/2), elevation 1950 m, gneissic crag just above the timber line (northfacing crevices), on plant remnants (together with and partly on *Anthelia juratzkana*). – 17 July 1978, collected and determined by Josef Hafellner (2934).

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1067. *Mycoblastus sanguinarius* (Linnaeus) Norman

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northernmost part of Kemetgebirge, 6 km south-southeast of the centre of Bad Aussee, area of the western and southwestern lakeshore of Ödensee, 47°33'40"N, 013°49'05"E, (grid number 8448/2), elevation 780 m, mixed forest (mainly with conifers) along the lakeshore, on bark of *Abies alba*. – 18 June 2015, collected and determined by Walter Obermayer (13426) [excursion together with Josef Hafellner, Florian Mühlbacher, and Paul Leonhardt].

Note: All issued specimens are partly covered with a tomentum of (in the fresh state) orange-reddish coloured algae of the genus *Trentepohlia* (the colour faded to greenish-yellow in the herbarium samples).

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1068. Myriolecis reuteri (Schaerer) Šliwa, Xin Zhao & Lumbsch
[Synonym: *Lecanora reuteri*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, Mürzsteiger Alpen, eastern part of the mountain Veitsch, 15.6 km northwest of the centre of Mürzschlag, Schoberstein northwest above 'Grundbauernhütte', 47°38'50"N, 015°28'30"E, (grid number 8358/4), elevation 1520 m, south-exposed cliffs, on vertical faces of Triassic limestone. – 21 July 2012, collected and determined by Josef Hafellner (80849).

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

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1069. Normandina pulchella (Borrer) Nylander

SLOVENIA, [Primorska], Goriška, Southern Alps, Julian Alps, Lapena valley, 8 km east-southeast of Bovec, 3 km south-southwest of Soča, along the bank of the rivulet Lepenca, 46°19'00"N, 013°39'30"E, elevation 480 m, remnants of an alluvial forest, on liverwort (covering the bark of *Salix*). – 6 July 2003, collected and determined by Helmut Mayrhofer (20332).

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1070. Ochrolechia alboflavescens (Wulfen) Zahlbruckner

AUSTRIA, Salzburg, Eastern Alps, High Tauern, Pinzgau Region (=Zell am See District), Venediger Group, 13 km south of the centre of Oberkrimml, Krimmler Achenal, between Jaidbachalm and Außerkeesalm, 47°06'21"N, 012°12'41"E, (grid number 8839/3), elevation 1720 m, on bark of *Picea abies*. – 19 August 2012, collected and determined by Roman Türk (51143).

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1071. Ochrolechia alboflavescens (Wulfen) Zahlbruckner

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 9.7 km west-northwest of the centre of Obdach, 400 northeast below Winterleitenhütte, along the natural toboggan run, 47°05'49"N, 14°34'28"E, (grid number 8953/1), elevation 1730 m, forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on twigs of *Picea abies*. – 30 November 2014, collected and determined by Walter Obermayer (13318).

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1072. *Orphniospora mosigii* (Körber) Hertel & Rambold

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 9.5 km west of Obdach, cwm south below the summit of Zirbitzkogel, terrain rim at the southeastern shore of the lake Lavantsee, 47°03'35"N, 014°34'40"E, (grid number 8953/1), elevation 2060 m, small outcrops (polished by lokal glaciers of former ice ages), on inclined faces of mica schist (exposed to the northwest). – 26 July 2007, collected by Josef Hafellner (82622) & Angela Hafellner, determined by Josef Hafellner.

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1073. *Parmelina pastillifera* (Harmand) Hale

SLOVENIA, [Primorska], Goriška, Southern Alps, Julian Alps, Koritnica valley, 8.3 km north-northeast of Bovec, near the village Log pod Mangartom, northeast of Spodnji Log, 46°24'10"N, 013°36'10"E, elevation 640 m, solitary trees (at the roadside), on bark of *Tilia cordata*. – 2 July 2003, collected and determined by Helmut Mayrhofer (20339).

Note: All issued specimens show fruiting bodies. TLC (Obermayer; specimen in GZU tested): Atranorin (min.), lecanoric acid (maj.).

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1074. *Peltigera leucophlebia* (Nylander) Gyelnik

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, Kemetgebirge, Stoderzinken, 7.5 km west-northwest of Gröbming, forest area of 'Brandner Urwald', along the path from Brünnerhütte to Grafenbergalm, 47°27'55"N, 013°48'10"E, (grid number 8548/2), elevation 1700 m, mixed forest with *Picea abies*, *Larix decidua* and *Pinus cembra*, on ground. – 31 July 2015, collected and determined by Walter Obermayer (13652).

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1075. *Peltigera membranacea* (Acharius) Nylander

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, by the trail to Glacier Bionnassay, north-facing slopes of Mont Vorassay, 45°51'48"N, 006°46'43"E, elevation 1580 m, mixed forest with dominant *Picea abies* (slopes exposed to northwest), on mossy boulders of granite. – 20 August 2011, collected and determined by Josef Hafellner (83030).

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1076. *Pertusaria oculata* (Dickson) Theodor Fries

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, High Tauern, Goldberg Group, area of 'High Tauern National Park', 6.2 km northeast of Döllach, 1.4 km southwest of the summit of Eckkopf, path from Schrällkaser (valley of 'Große Zirknitz) via Zahltisch to Ochsnerhütte, 47°00'44"N, 012°57'17"E, (grid number 8943/4), elevation 2235–2250 m, alpine vegetation, on plant remnants (above mica schist). – 25 September 2016, collected and determined by Roman Türk (56823).

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1077. *Phaeophyscia endophoenicea* (Harmand) Moberg

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland (=Südöstliches Alpenvorland), Oststeirisches Riedelland, urban area of Graz, 5.6 km east-northeast of the centre, between Haidegg and Schweinberg, 730 m northeast of the school buildings of Haidegg, 47°04'55"N, 015°30'33"E, (grid number 8959/1), elevation 470 m, mixed forest, on bark of *Fagus sylvatica* (near ground). – 28 March 2015, collected and determined by Walter Obermayer (13346).

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1078. *Physcia stellaris* (Linnaeus) Nylander

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, High Tauern, Ankogel Group, 6.5 km north-northwest of Obervellach, urban centre of Mallnitz, 46°59'21"N, 013°10'09"E, (grid number 9045/1), elevation 1187 m, on wooden fence. – 25 February 2013, collected and determined by Roman Türk (51937).

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1079. *Physciella chloantha* (Acharius) Esslinger

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland (=Südöstliches Alpenvorland), Grazer Feld, urban area of Graz, along the south side of 'Parkstraße', 340 m east-northeast of the summit of Schlossberg, 47°04'41"N, 015°26'29"E, (grid number 8958/2), elevation 361 m, alley trees, on bark. – 3 April 2016, collected and determined by Walter Obermayer (13646).

Note: Partly with apothecia.

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1080. **Physconia distorta** (Withering) Jack Rodney Laundon

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Östliches Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of St. Radegund, 70 m east of Schöcklkopf, 47°12'03"N, 015°28'37"E, (grid number 8758/4), elevation 1340-1370 m, edge of a forest (southeast-exposed), on stem bark of *Acer pseudoplatanus*. – 15 November 2015, collected and determined by Walter Obermayer (13625).

Note: A typical morpho-(geno?)type with (regenerating?) lobules on the upper surface (instead of apothecia) probably due to the influence of environmental pollutants.

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1081. **Placynthiella oligotropha** (Jack Rodney Laundon) Coppins & Peter James

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, High Tauern, Ankogel Group, area of 'High Tauern National Park', 13 km northwest of Malta, 3.7 km south-southeast of the summit of Hochalm Spitze, Gößkar, path from 'Gößkarspeicher' to 'Gießener Hütte', 46°59'11"N, 013°20'34"E, (grid number 9046/1), elevation 1810 m, alpine vegetation above mica schist, on raw humus (=mor). – 15 September 2013, collected and determined by Roman Türk (52297).

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1082. **Porpidia tuberculosa** (Smith) Hertel & Knoph

AUSTRIA, Kärnten (=Carinthia), Southern Alps, Carnic Alps, 15 km west-southwest of Hermagor, Hochwipfel, 46°35'43"N, 013°10'40"E, (grid number 9445/1), elevation 2130 m, alpine meadows and open dwarf scrub communities with outcrops of paleozoic, siliceous schist, on rock surfaces (near ground). – 2 September 2007, collected and determined by Walter Obermayer (12337) [excursion together with Josef Hafellner].

Note: TLC (Obermayer; specimens in GZU and CANB tested): Confluent acid (maj.), 2'-O-methylmicro-phyllinic acid (min.), porphyrillic acid (min., hitherto not reported from *P. tuberculosa*). Medulla I+ violet.

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1083. *Protomicarea limosa* (Acharius) Hafellner

AUSTRIA, Steiermark (=Styria), Eastern Alps, Lower Tauern, Wölzer Tauern, 7.6 km west of Pusterwald, mountain area between the summits of Großhansl and Hühnerkogel, 500 m east-northeast of the summit of Scharnitzfeld, northeast-facing slopes towards Weittal, 47°18'50"N, 014°16'30"E, (grid number 8651/4), elevation 2150 m, low outcrops, on plant remnants (slightly inclined bare spots). – 25 August 2005, collected and determined by Josef Hafellner (68103).

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1084. *Punctelia jeckeri* (Roumeguère) Kalb

AUSTRIA, Steiermark (=Styria), Eastern Alps, Gurktal Alps (including 'Neumarkter Passlandschaft'), 2.2 km south of the centre of Neumarkt, 300 m south-southwest of the castle "Schloss-Lind", 47°03'11"N, 014°25'28"E, (grid number 8952/2), elevation 825 m, alley with *Fraxinus excelsior*, on stem bark of *Fraxinus excelsior*. – 20 August 2016, collected and determined by Walter Obermayer (13670).

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1085. *Pycnora sorophora* (Vainio) Hafellner

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Östliches Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of St. Radegund, 70 m east of Schöcklkopf, 47°12'10"N, 015°28'41"E, (grid number 8758/4), elevation 1280 m, southeast exposed steep slopes with calcareous outcrops, on standing deadwood. – 15 November 2015, collected and determined by Walter Obermayer (13613).

Note: Specimens partly intermixed with *Calicium tigillare* and *Buellia arborea*. TLC (Obermayer): Alectorialic acid and unknowns (probably including hypoprotocetraric acid).

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1086. *Ramalina breviscula* Nylander

GREECE, Crete, Nomós Lassithi, 1.5 km south of Kalavros, 2 km north of Messa Moulina, 35°11'N, 025°58'E, elevation 445 m, amphibolitic outcrops, on rocks. – 9 May 1999, collected by Helmut Mayrhofer (20792) & Eva Baloch, determined by Helmut Mayrhofer (2015).

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1087. *Ramalina farinacea* (Linnaeus) Acharius

AUSTRIA, Niederösterreich (=Lower Austria), Eastern Alps, Yppstal Alps, 21 km south-southwest of Scheibbs, 5.1 km southeast of 'Lunz am See', valley of Seebach, east of the lake Mittersee, 47°49'41"N, 015°04'38"E, (grid number 8156/3), elevation 785 m, on bark of *Acer pseudoplatanus*. – 23 August 2013, collected and determined by Roman Türk (52177).

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1088. *Ramalina thrausta* (Acharius) Nylander

AUSTRIA, Salzburg, Eastern Alps, Lower Tauern, Pongau region, Radstätter Tauern, 17.3 km south-southeast of St.Johann, 6.3 km north of Kleinarl, path from the lake Jägersee along the brook Kleinarlbach to Schwabalm, 47°13'26"N, 013°20'05"E, (grid number 8746/3), elevation 1130 m, mixed forest, on twigs of *Picea abies*. – 26 June 2016, collected and determined by Roman Türk (56370).

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1089. *Ramboldia crassithallina* Kalb

[ISOTYPE]

[all specimens additionally include an isotype of *Ramboldia soreliata* Kalb]

AUSTRALIA, Western Australia, 24 km southeast of Corrigin, Gorge Rock, 32°25'S, 118°00'E, elevation 300 m, on dead, decorticated twigs. – 18 August 1994, collected by Klaus Kalb & Astrid Kalb, determined by Klaus Kalb.

Note: TLC (Kalb, 1997; specimen in GZU tested): Thamnic acid, barbatic acid.

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1090. *Rhizoplaca chrysoleuca* (Smith) Zopf

AUSTRIA, Tyrol, Eastern Alps, Ötztal Alps, 7.7 km south-southeast of Sölden, road from Hochgurgl to Timmelsjoch, 1 km north of the centre of Hochgurgl, near 'Maut', 46°54'42"N, 011°03'19"E, (grid number 9032/3), elevation 2220 m, dwarf shrub heath with large boulders, on siliceous rock. – 18 September 2014, collected and determined by Helmut Mayrhofer (20293).

Note: TLC (Obermayer; specimen in GZU tested): Usnic acid (minor), placodiolic acid (major); lecanoric acid and faint traces of protocetraric acid (in one sample with apothecia only). Specimens partly intermixed with *Dimelaena oreina* and/or *Ramalina capitata*.

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1091. *Rinodina luridescens* (Anzi) Arnold

GREECE, Crete, Nomós Lassithi, 1.5 km south of Kalavros, 2 km north of Messa Moulina, 35°11'N, 025°58'E, elevation 445 m, steep cliffs, on amphibolitic rock. – 9 May 1999, collected by Helmut Mayrhofer (20627) & Eva Baloch, determined by Helmut Mayrhofer (February 2015).

Note: TLC (Kosnik/Mayrhofer): Gyrophoric acid, triterpenoids.

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1092. *Rinodina santorinensis* Julius Steiner

GREECE, Crete, Nomós Lassithi, 1.5 km south of Kalavros, 2 km north of Messa Moulina, 35°11'N, 025°58'E, elevation 445 m, steep cliffs, on amphibolitic rock. – 9 May 1999, collected by Helmut Mayrhofer (20603) & Eva Baloch, determined by Helmut Mayrhofer (February 2015).

Note: TLC (Kosnik/Mayrhofer): Atranorin.

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1093. *Schaereria fuscocinerea* (Nylander) Clauzade & Claude Roux

ITALY, Friuli - Venezia Giulia, Province of Udine, Southern Alps, Carnic Alps, 6 km north of Pontebba, area of Passo Pramollo (=Nassfeldpass), Monte Carnizza (=Garnitzenberg) east above the pass, conspicuous head of siliceous rocks west of the summit, 46°33'35"N, 013°17'44"E, elevation 1900 m, siliceous rocks (at the alpine tree-line ecotone), on low outcrops of iron-rich schist. – 6 August 2007, collected and determined by Josef Hafellner (76766).

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1094. *Schismatomma pericleum* (Acharius) Branth & Rostrup

AUSTRIA, Salzburg, Eastern Alps, Salzkammergut Mountains, Flachgau region, 24 km southeast of the centre of Salzburg, Osterhorngruppe, path from Hintersee via Lämmerbach to Genneralm, 47°41'10"N, 013°18'58"E, (grid number 8345/2), elevation 995–1000 m, on bark of *Picea abies* (near the base). – 5 May 2016, collected and determined by Roman Türk (56273).

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1095. *Thelotrema lepadinum* (Acharius) Acharius

AUSTRIA, Tyrol, Eastern Alps, Northern Limestone Alps, Ammergau Alps (= 'Ammergebirge'), 8.9 km east of Reutte, east-facing slopes of 'Soldatenköpfe' (north of the lake Plansee), along 'Altenbergweg' (lowermost part), 47°29'30"N, 010°50'05"E, (grid number 8531/1), elevation 1030 m, mixed forest, on bark of *Acer pseudoplatanus*. – 5 September 2004, collected and determined by Josef Hafellner (81204).

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1096. *Thrombium epigaeum* (Persoon) Wallroth

AUSTRIA, Tyrol, East Tyrol, Eastern Alps, High Tauern, Glockner Group, 11.9 km east of the centre of Mauterhorn, path from Lucknerhaus to Glorer Hütte, near Schliederleralm, 47°01'11"N, 012°41'40"E, (grid number 8942/3), elevation 2070 m, on acidic soil (bare earth). – 1 July 2007, collected and determined by Roman Türk (42575).

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1097. *Tuckneraria laureri* (Krempelhuber) Randleane & Arne Thell

AUSTRIA, Salzburg, Eastern Alps, 'Salzburger Schieferalpen', Pinzgau Region (=Zell am See District), 7.5 km east-southeast of the centre of Maria Alm, pass area between 'Dientener Berge' and Hochkönig, Filzensattel (near Dienten), path from Filzensattel to Gabühel, 47°23'47"N, 013°00'05"E, (grid number 8644/1), elevation 1300–1330 m, montane forest, on bark of *Picea abies*. – 10 August 2014, collected and determined by Walter Obermayer (13200).

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1098. *Variospora aurantia* (Persoon) Arup, Frödén & Söchting [Synonym: *Caloplaca aurantia*]

SPAIN, Mallorca, 12.3 km SSE of the centre of Palma de Mallorca, W of Bellavista, 200 m away from the seashore, 39°28'37.12"N, 002°43'39.35"E, elevation 40 m, garrigue vegetation, on horizontal faces of calcareous outcrops (near the ground). – 24 August 2013, collected by Walter Obermayer (13081), determined by Jan Vondrák (2013).

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1099. Verrucaria nigrescens Persoon [aggregate]

GREECE, Kérkyra Island (=Corfu Island), 15 km (as the crow flies) south of the centre of Kérkyra City, Moraitika, 39°29'14"N, 019°55'25"E, elevation 30 m, urban area of the village, on calcareous rocks of an old wall (vertical surface). – 17 August 2015, collected and determined by Walter Obermayer (13644).

distributed to: **CANB, GZU, M, NY, UPS, hb.Kalb**

OBERMAYER W. 2016: Dupla Graecensia Lichenum (2016, numbers 1021–1100). - Fritschiana 83: 1–23.
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz* [GZU]

1100. Xanthoria parietina (Linnaeus) Beltramini

CROATIA, Istria, Vrsar, 200 m north of the harbour, 100 m east of the bathing beach, path to a vantage point on a small rocky hill, 45°09'08"N, 013°35'58"E, elevation 11 m, on twigs of *Pistacia terebinthus*. – 23 September 2016, collected and determined by Walter Obermayer (13695).

Note: Specimen in GZU intermixed with *Flavoparmelia soledians*.

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

Lichenicolous Biota (Nos 231–250)

Josef HAFELLNER*

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.

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

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

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

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

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

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

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

**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

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

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

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

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

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

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

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

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

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

239. *Unguiculariopsis lettaui* (Grummann) Coppins

in Notes from the Royal Botanical Garden Edinburgh 46: 387 (1990). – Bas.: *Pyrenopeziza lettaui* Grummann in Botanische Jahrbücher 80: 140 (1960). – Syn.: *Skyttea lettaui* (Grummann) 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

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

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

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

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

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

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

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

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

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

249. *Stigmidium 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 *Stigmidium 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>Stigmidium 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
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4. ASIA TROPICAL		
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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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Additional records of *Gyalideopsis mexicana* (lichenized Ascomycota).

Josef HAFELLNER*

HAFELLNER Josef 2016: Additional records of *Gyalideopsis mexicana* (lichenized Ascomycota). - Fritschiana (Graz) 83: 41–45. - ISSN 1024-0306.

Abstract: *Gyalideopsis mexicana* is recorded for the first time from the Mexican state Sonora. Notes on the available types, on the ecology including the report of facultative lichenicolous growth, and on the overall horizontal and vertical distribution are added.

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Introduction

Prior to the publication of the 'Lichen Flora of the Sonoran Desert Region' (NASH et al. 2002, 2004, 2007), Thomas Nash organized several field trips to various parts of the region, in order to improve both the knowledge about the taxa occurring in the area of investigation and about the distribution of individual species.

On occasion of such collecting trips, many new taxa have been detected the descriptions of which are scattered over the lichenological literature. Among the newly detected taxa was also a species of *Gyalideopsis*, *G. mexicana* (TRETIACH et al. 1996). The generic treatment of *Gyalideopsis* for the Flora was later written up by NASH & TØNSBERG (2004). The data they had available for *Gyalideopsis mexicana* were more or less the same as those given together with the original description.

At that time we had no free access to the material gathered during two of the mentioned field trips. Therefore for a number of species the information that can be withdrawn from the specimens at our disposal and from the labels could not be provided in time, neither to the authors of the generic treatments, nor to the editors of the flora. But now this material is accessible again and we are able to publish some additional information on *Gyalideopsis mexicana*.

Material and methods

The present study is based on dried herbarium specimens, including collections already examined for previous treatments. External morphology was studied with a dissecting microscope (WILD M3, 6.4–40×). Anatomical

studies of the thallus and the ascomata were carried out under the light microscope (LEICA DMRE, 100–1000×). Sectioning was performed with a freezing microtome (LEITZ, sections of 12–15 µm) but squash preparations were also used, especially for ascus analysis. Preparations were mounted in water. When necessary, contrasting was performed by a pretreatment with lactic acid-cotton blue (MERCK 13741). Amyloid reactions in hymenia were observed by the use of Lugol's reagent (I) (MERCK 9261). Sections and squash preparations were not pretreated with KOH (K) unless otherwise stated (K/I). Measurements refer to dimensions in tap water.

Abbreviations for institutional herbaria follow HOLMGREN et al. (1990). Abbreviations of author names are those proposed by BRUMMITT & POWELL (1992). Geographic units are defined and named according to HOLLIS & BRUMMITT (1992) or BRUMMITT (2001).

Results

Gyalideopsis mexicana Tretiach, Giralt & Vězda, *The Bryologist* 99(2): 236 (1996).

Typus: Mexico: Chihuahua, Sierra Madre Occidental, Rio Sirupa valley, 29° 10'55"N / 108°18'45"W, ca. 1700 m, on decaying moss, 20. VII. 1994, leg. M. Tretiach (TSB 20033 - holotype) n.v. (locality data from protologue). – Vězda, *Lichenes Rariores Exs.* 243 (GZU – called isotype)!

Full descriptions: TRETACH et al. 1996: 236–238; NASH & TØNSBERG 2004: 127.

Icon.: TRETACH et al. 1996: 237 1–5 (drawings of habit, section of apothecium, ascus and paraphyses, conidiophores, ascospores)

Key characters for identification: Thallus composed of flattened to hemispherical verrucae, whitish when dry and containing clusters of calcium oxalate crystals. Hyphophores usually abundant, up to 2 mm high and apically pointed, with apical conidial mass occasionally present, subglobose, translucent to brownish, consisting of branched diahyphae. Apothecia occasionally present, reddish-brown to middle-brown, sometimes covered by coarse white pruina, with flat discs and thin persisting concolorous margin; exciple biatorine; paraphyses branched and anastomosing, with narrow lumina and embedded in gelatinous matrix; asci with non-amyloid ascus wall, apically thickened to form a non-amyloid tholus, 2- to 8-spored; ascospores hyaline, submuriform, with lower end almost pointed, about 20–25(–30) x 9–14 µm.

Notes: 1. There are some noteworthy discrepancies concerning the labels of type specimens and the information on the type material in the protologue. According to the protologue, the holotype (TSB) and an isotype (MEXU) have been collected by M. Tretiach alone. Another specimen from the type locality has been collected by M. Giralt and is said to constitute a paratype (BCC). Furthermore the protologue indicates the distribution of further isotypes in Vězda, *Lichenes Rariores Exsiccati*. This material was included

in Vězda, Lichenes Rariores Exsiccati, Fasc. 25, as no. 243, but on the exsiccate label 'M. Tretiach & M. Giral' are given as collectors. Applying the Code strictly, the duplicates of this exsiccate number are paratypes rather than isotypes, due to the differing collector information.

2. The reason for these discrepancies is the following: A variable number of lichenologists attended the field trips which Tom Nash had organized in connection with the Sonoran desert lichen flora he planned to publish at that time. The individual scientists often have designed their own labels, resulting in label texts that often differ in wording but might refer to identical localities. This is not of dramatic importance in case of additional collections for well known species, but it certainly matters when new taxa are described because it might remain unclear that a specimen comes from the *locus classicus* and *de facto* constitutes a 'topotype'. This also applies to some of our collections of *Gyalideopsis mexicana* which were collected in the company of the senior taxon author, at the same places and on the same date. Such specimens are explicitly annotated in the list of specimens below.

3. Based on phenotypic characters, the species was assigned to the *Gyalideopsis africana* group which is not strongly supported and includes also the generic type, *Gyalideopsis peruviana* G.Merr. ex Vězda (LÜCKING et al. 2005, VĚZDA 1972).

4. According to the world-wide key for *Gyalideopsis* (LÜCKING et al. 2006), the species appears to be most similar to *Gyalideopsis capitata* Sérus. (SÉRUSIAUX 1998) with regard to thallus type and the apical position of the diahyphal mass but differing from that species by much longer hyphophores (only up to 0.35 mm in *G. capitata*) and asci with a variable number of relatively small ascospores (ascospores single and up to 110 µm long in *G. capitata*).

Ecology: The species is mostly found growing on and encrusting plant remnants, bryophytes and spikemosses. More rarely it was found growing directly on thin soil layers overlaying boulders.

Although regarded as a pioneer species, *Gyalideopsis mexicana* appears to be a relatively strong competitor as it has been observed invading squamules of *Cladonia* spec. and lobes of *Peltigera* spec. (duplicate of Dupl. Graec. Lichenum no. 1054 in GZU), as well as lobes of *Coccocarpia* spec. (Hafellner 54810) and *Scytinium* spec. (Hafellner 55520).

Distribution: The species was so far reported only from Chihuahua State in Mexico (NASH & TØNSBERG 2004). Apart from additional localities in that province, it is here also reported from Sonora State where it has been collected at two sites during the Sonoran Desert foray in 1993. The recorded localities listed below are situated within an altitudinal range of 960 to 2000 m.

Exsiccata seen: Vězda, Lichenes Rariores Exs. 243 (GZU). – Obermayer, Dupla Graecensia Lichenum 1054 (CANB, GZU, M, NY, UPS).

Further specimens seen:

NORTHERN AMERICA: Mexico: Sonora: Paso El Encino ca. 23 km ENE of Moctezuma, ca. 1160 m, 29°52'N / 109°28'W; N-facing outcrops in a small ravine, on thin soil layer over granite, 9. II. 1993, leg. J. Hafellner no. 54851 & A. Hafellner (GZU). – ca. 14 km ENE of Moctezuma, by the road to Huásabas, ca. 960 m, 29°50'N / 109°32'W; low sandstone outcrops on N-facing slope, open shrubland, on mossy mats between small outcrops, 9. II. 1993, leg. J. Hafellner no. 54810 & A. Hafellner (GZU). – **Chihuahua:** Sierra Madre Occidental, valley of Río Sirupa W of Ciudad Madera, cliffs E above the river, ca. 1350 m, 29°11'N / 108°19'25"W; open oak forest, siliceous rocks, on plant debris, 20. VII. 1994, leg. J. Hafellner no. 54403 (GZU) [paratype locality of TSB 20042]. – Sierra Madre Occidental, western slopes of Sierra Chinaca E above Río Sirupa, W of Ciudad Madera, ca. 1630 m, 29°10'55"N / 108°18'45"W, siliceous cliffs in open oak forest, over mosses and *Seliginella* in a shady ravine, 20. VII. 1994, leg. J. Hafellner 55699, 55702, 55710 (GZU) [type locality of TSB 20033]. – Sierra Madre Occidental, Barranca del Cobre, 1 km S above the bridge over Río Urique, ca. 1700 m, 27°22'20"N / 107°30'10"W, pine-oak forest on N-facing slope, over mosses on boulders, 21. VII. 1994, leg. J. Hafellner no. 55674 (GZU) [paratype locality of TSB 20037]. – Sierra Madre Occidental, Barranca del Cobre, secondary valley about 10 km S of Basihuare, ca. 1800 m, 27°26'20"N / 107°29'20"W, pine-oak forest with sandstone boulders along riverbank, over mosses and temporarily moist earth, 21. VII. 1994, leg. J. Hafellner no. 55520 (GZU) [duplicates distributed in Obermayer, Dupla *Graecensia Lichenum* no. 1054]. – Sierra Madre Occidental, Barranca del Cobre, small ridge S above Basihuare, ca. 2000 m, 27°27'N / 107°29'20"W, rhyolite outcrops between low shrubs (*Arctostaphylos*, *Quercus*), over mosses on low N-facing outcrops, 21. VII. 1994, leg. J. Hafellner no. 55906 (GZU).

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Thanks are due to Thomas H. NASH for arranging and guiding the lichen forays during which the cited material has been collected. The field work by the author was supported by grants of the National Science Foundation of the USA (DEB92-01111 and 97-06984) awarded to Thomas H. NASH at that time at Arizona State University which are also gratefully acknowledged. Walter OBERMAYER and Christian SCHEUER are thanked for critically reading the manuscript and Angela HAFELLNER for support in the field.

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***Tingiopsidium* - the correct name for *Vestergrenopsis* as currently delimited (Peltigerales, Koerberiaceae)**

Josef HAFELLNER¹ & Toby SPRIBILLE^{1,2}

HAFELLNER Josef & SPRIBILLE Toby 2016: *Tingiopsidium* - the correct name for *Vestergrenopsis* as currently delimited (Peltigerales, Koerberiaceae). - Fritschiana (Graz) 83: 47–50. - ISSN 1024-0306.

Abstract: *Tingiopsidium* antedates *Vestergrenopsis* by one year and is apparently the oldest generic name for a group of so far three species of cyanophilic lichenized fungi. The combinations *Tingiopsidium elaeinum*, *T. isidiatum*, and *T. sonomense* are introduced.

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Introduction

A molecular and morpho-anatomical study of the Peltigerales-Peltigerales led SPRIBILLE & MUGGIA (2013) to recognize a further family, Koerberiaceae, comprising the genera *Koerberia*, *Steinera* and *Vestergrenopsis*. By transferring *Pannaria sonomensis* Tuck. from *Koerberia* to *Vestergrenopsis*, generic names based on that species and its heterotypic synonyms are consequently not anymore synonyms of *Koerberia* as it has been outlined by HENSSEN (1963a) but have to be considered in a search for the correct name of the *Vestergrenopsis* clade (HENSSEN 1963b, SPRIBILLE & MUGGIA 2013). One of these heterotypic synonyms, overlooked by SPRIBILLE & MUGGIA (2013), is at the same time the type species of a genus, *Tingiopsidium* Werner (WERNER 1939), which antedates *Vestergrenopsis* Gyeln. (GYELNIK 1940) by one year and makes *Vestergrenopsis* illegitimate.

Of the two possible solutions – applying the principle of priority or proposing *Vestergrenopsis* for conservation, we opt for the first. The species in question are rare, they seldom turn up in the lichenological literature and are of no economic importance. The procedure of conservation seems therefore not to be justified. By applying the principle of priority we can offer an immediate, clear and stable solution.

The necessary nomenclatural consequences are drawn below.

Nomenclatural synopsis

Tingiopsidium Werner, Bull. Soc. Sci. Nat. Maroc 19: 47 (1939).

MycoBank 5483

Typus: *Tingiopsidium pubescens* Werner (holotype)

= *Vestergrenopsis* Gyeln., Rabenh. Krypt.-Fl., 2. Aufl., 9(2): 265 (1940).

MycoBank 5734

Typus: *Vestergrenopsis elaeina* (Wahlenb. ex Ach.) Gyeln. (*Parmelia elaeina* Wahlenb. ex Ach.) (holotype)

Note: *Tingiopsidium pubescens* is a heterotypic younger synonym of *Pannaria sonomensis* Tuck. (fide HENSSEN 1963a).

The species

Tingiopsidium elaeinum (Wahlenb. ex Ach.) Hafellner & T.Sprib., **combinatio nova**

MycoBank 817685

≡ *Parmelia elaeina* Wahlenb. ex Ach., Suppl. Meth. Lich.: 45 (1803). – *Pannaria elaeina* (Wahlenb. ex Ach.) Nyl., Mém. Soc. Imp. Sci. Nat. Cherbourg 3: 176 (1855) and Nya Bot. Notiser 1855: 140 (1855). – *Vestergrenopsis elaeina* (Wahlenb. ex Ach.) Gyeln., Rabenh. Krypt.-Fl., 2. Aufl., 9(2): 266 (1940).

Notes: The species was repeatedly attributed to Wahlenberg (e.g., HENSSEN 1963b, EGAN 1987, ANDREEV et al. 1996, ELVEBAKK & HERTEL 1997, HARADA et al. 2004, SANTESSON et al. 2004, KUROKAWA & KASHIWADANI 2006, URBANAVICHUS & ANDREEV 2010, ESSLINGER 2016) a view which is in contradiction with the Code (MCNEILL et al. 2012). The protologue in ACHARIUS (1803: 45–47) consists of five paragraphs, with the taxon name '*Parmelia elaeina*' (without a taxon author indicated) and the diagnosis given as first paragraph. There is no indication that this first paragraph was contributed by Wahlenberg. Further detailed characters for the new species are given in the fifth paragraph, which has evidently been written by Acharius, indicated by an 'A.' at its end.

In a second paragraph, however, ACHARIUS (1803: 46) cited under the name '*Parmelia* (Ach. *Placod.*) *elaena*' the description that he has apparently received from Wahlenberg, with several differences in the wording compared to the diagnosis. This second paragraph is marked with 'Wahlenb. Msc.'. Additionally, further down in the protologue in the fourth paragraph (1. paragraph of 'Obs.'), Acharius cites Wahlenberg's opinion that the species belongs to the [subgenus] *Placodium* ('Ad *Placodia* certa pertinet nec *Circinaria* est. W.'), whereas Acharius described it in the [subgenus] *Circinaria*.

From this context we conclude that the diagnosis and major parts of the description of *Parmelia elaeina* have been written by Acharius and the species is therefore attributed to him (ICN Art. 46.5).

Tingiopsidium isidiatum (Degel.) Hafellner & T.Sprib., **combinatio nova**
MycoBank 817686

≡ *Pannaria isidiata* Degel., Bot. Notiser 1943: 90 (1943). – *Vestergrenopsis isidiata* (Degel.) Å.E.Dahl, Meddel. Grønland 150(2): 55 (1950).

Tingiopsidium sonomense (Tuck.) Hafellner & T.Sprib., **combinatio nova**
MycoBank 817687

≡ *Pannaria sonomensis* Tuck., Proc. Am. Acad. Arts Sci. 12: 169 (1877). – *Vestergrenopsis sonomensis* (Tuck.) T.Sprib. & Muggia, Fung. Div. 58: 182 (2012). – *Koerberia sonomensis* (Tuck.) Henssen, Can. J. Bot. 41: 1351 (1963).

= *Tingiopsidium pubescens* Werner, Bull. Soc. Sci. Nat. Maroc 19: 47 (1939) fide HENSSEN (1963a).

Discussion

Tingiopsidium sonomense is unusual in the *Tingiopsidium* / *Vestergrenopsis* clade on account of its 8-spored asci, the 1-septate fusiform ascospores, and its biogeography (SPRIBILLE & MUGGIA 2013). From the phylogenetic point of view it would also be possible to accept both genera, *Tingiopsidium* for *T. sonomense* and *Vestergrenopsis* for *V. elaeina* and *V. isidiata*. However, we regard the differences as too small for that alternative solution.

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