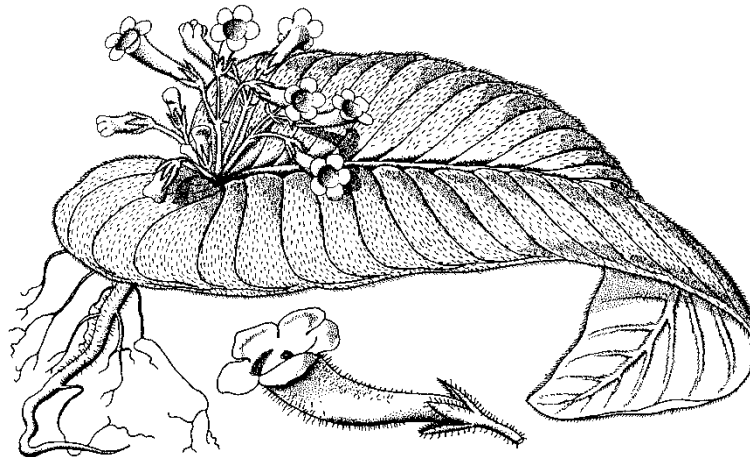


FRITSCHIANA

96



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

Walter OBERMAYER

Dupla Graecensia Lichenum (2020, numbers 1191–1290)

Josef HAFELLNER

Lichenicolous Biota (Nos 321–340)

Graz, 18. Dezember 2020

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

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

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

Graz, November 1997

Herwig TEPPNER

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

Gesamtredaktion:

Dr. Christian SCHEUER, Dr. Walter OBERMAYER
Karl-Franzens-Universität Graz, Institut für Biologie, Bereich Pflanzenwissenschaften,
NAWI Graz, Holteigasse 6, 8010 Graz, Österreich/Austria

ISSN 1024-0306

Key title = Abbreviated title: Fritschiana (Graz)

Umschlagsbild: *Carolofritschia diandra* ENGL. (= *Acanthonema strigosum* HOOK.f.); nach einer Zeichnung in HUTCHINSON J. & HEPPER F.N. 1963: Flora of West Tropical Africa, Ed. 2, Vol. II: 382.

FRITSCHIANA

**Veröffentlichungen aus dem
Institut für Biologie, Bereich Pflanzenwissenschaften
der Karl-Franzens-Universität Graz**

96

Walter OBERMAYER

Dupla Graecensia Lichenum (2020, numbers 1191–1290)

pp. 1–28

Josef HAFELLNER

Lichenicolous Biota (Nos 321–340)

pp. 29–45

Graz, 18. Dezember 2020

ISSN 1024-0306

Key title = Abbreviated title: Fritschiana (Graz)

© 2020 by the authors. All rights reserved.

Date of publication: 18 December 2020

Printed by: Druckservice, Wirtschaftsabteilung der Karl-Franzens-Universität, Attemsgasse 8/I,
8010 Graz, Austria

Dupla Graecensia Lichenum (2020, numbers 1191–1290)

Walter OBERMAYER*

OBERMAYER W. 2020: Dupla Graecensia Lichenum (2020, numbers 1191–1290). - Fritschiana (Graz) 96: 1–28. - ISSN 1024-0306.

Abstract: The exsiccata 'Dupla Graecensia Lichenum (2020, numbers 1191–1290)' comprises 100 collections (747 specimens) of lichen duplicates from the following 18 countries: Albania (district of Shkodër), Australia (state of Queensland), Austria (states of Carinthia, Salzburg, Styria, Tyrol, Upper Austria, and Vorarlberg), Brazil (states of Mato Grosso and Mato Grosso do Sul), Canada (territory of Nunavut), China (Tibet, province Xizang), Croatia (island of Košljun), Czech Republic (North Bohemia and South Bohemia), Greece (islands of Corfu and Rhodes), Italy (region of Veneto and autonomous region of Trentino - Alto Adige), Nepal, New Zealand (South Island), Portugal (Madeira Island), Slovenia, Spain (Canary Islands), Switzerland (canton of Bern), Thailand (province of Chumphon), and Venezuela (state of Merida). Isotype specimens of *Buellia maungatuensis* are distributed. TLC-investigations were carried out for 40 issued taxa.

* University of Graz, Institute of Biology, Division of Plant Sciences, NAWI Graz, Holteigasse 6, 8010 Graz, AUSTRIA
e-mail: walter.obermayer@uni-graz.at

Introduction

The dwarf-exsiccata 'Dupla Graecensia Lichenum' is issued by the herbarium of the Institute of Biology (botany section) of the Karl-Franzens-University, Graz, Austria (international herbarium acronym: GZU). It includes lichens (and sometimes lichenicolous fungi) 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 <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/Dupla-Graecensia-Lichenum/dupla-graecensia-lichenum-text-version-only.htm>. A downloadable PDF-file can be found under <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-96/fritschiana-096.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 <https://www.mycobank.org/>. The geographical classification system of the European Alps (using the terms 'Western Alps' and 'Eastern Alps') follows a classification used by Sergio MARAZZI (2005): Atlante orografico delle Alpi. SOIUSA. Suddivisione orografica internazionale unificata del Sistema Alpino. - Priuli & Verlucca (Scarmagno).

I wish to thank all the collectors and keepers of private herbaria for their contributions, in particular Franz BERGER, Josef HAFELLNER, Klaus KALB, Helmut MAYRHOFER, Zdeněk PALICE, and Roman TÜRK. The following colleagues are kindly acknowledged for additional determinations: Philippe CLERC (*Usnea*), Kerry KNUDSEN (*Acarospora*), and Tiina RANDLANE (*Allocetraria*). Josef HAFELLNER and Helmut MAYRHOFER have kindly checked the label text.

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1191. *Acarospora cervina* (Acharius) Abramo Massalongo

SLOVENIA, [Primorska], Eastern Alps, Julian Alps, 13 km northeast of Bovec, massif of Mangart, slopes south of Mangartska koča (Mangart refuge), 46°26'10"N, 013°38'45"E, elevation 1880 m, alpine vegetation fragments and rocks of limestone, partly slightly siliceous, on low outcrops. – 5 July 2003, collected by Helmut Mayrhofer (19885), determined by Kerry Knudsen (2017).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1192. *Acarospora sinopica* (Wahlenberg) Körber

AUSTRIA, Steiermark (=Styria), Eastern Alps, Wölz Tauern, 10.8 km west-northwest of the centre of Oberzeiring, 2.5 km north of Lachtal, 2.4 km northwest of 'Klosterneuburger Hütte', ridge area between 'Kleiner Zinken' and 'Hoher Zinken', 47°16'20"N, 014°20'55"E, (grid number 8752/1), elevation 2160 m, alpine vegetation with rock outcrops, on heavy metal rich mica schist. – 7 November 1994, collected by Alois Wilfling (L519), determined by Markus Möslinger.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1193. *Allocetraria ambigua* (Churchill Babington) Kurokawa & Ming-Jou Lai

NEPAL, East-Nepal, Khumbakarna-Himal, Dhankuta district, Barun valley, c. 27°51'N, 087°04'E, elevation 5000 m, on ground (sandy soil). – October 1972, collected by Tony Wraber, determined by Tiina Randlane (1994).

Note: TLC (Andres Saag, Tartu 1994): Usnic acid, lichesterinic and protolichesterinic acids, secalononic acid C.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1194. *Arthonia didyma* Körber

AUSTRIA, Oberösterreich (=Upper Austria), Northern Alpine Foreland, Kobernaußerwald, 9.8 km northwest of Frankenmarkt, 1.6 km west-northwest of the valley area 'Hocheck', southeast of the summit 'Wienerhöhe', 48°02'59"N, 013°19'41"E, (grid number 7945/2), elevation 700 m, wet area with dying trees of *Fraxinus excelsior* in a mixed forest, on bark of *Fraxinus excelsior*. – 26 February 2019, collected and determined by Franz Berger (33886).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1195. ***Arthonia ruana*** Abramo Massalongo

[recently used synonym: *Arthothelium ruanum*]

AUSTRIA, Oberösterreich (=Upper Austria), Northern Alpine Foreland, Kobernaußerwald, 9.8 km northwest of Frankenmarkt, 1.6 km west-northwest of the valley area 'Hocheck', southeast of the summit 'Wienerhöhe', 48°02'59"N, 013°19'41"E, (grid number 7945/2), elevation 700 m, wet area with dying trees of *Fraxinus excelsior* in a mixed forest, on bark of *Fraxinus excelsior*. – 26 February 2019, collected and determined by Franz Berger (33891).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1196. ***Arthonia spadicea*** Leighton

AUSTRIA, Oberösterreich (=Upper Austria), Bohemian Massif, 5.2 km south-southeast of the centre of 'Neustift im Mühlkreis', valley of the rivulet Ranna 1 km north of its mouth into the river Danube (Rannamühl), 48°29'03"N, 013°46'36"E, (grid number 7548/2), elevation 320 m, strongly shadowed spruce forest (c. 30 years old), on bark of *Picea abies* (damaged by bark-beetles). – 21 February 2018, collected and determined by Franz Berger (32837).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1197. ***Bacidia* (cf.) *circumspecta*** (Nylander ex Vainio) Malme

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Noric Alps, Nockberge, 12 km east of the centre of 'Spital an der Drau', Döbriach, 46°46'N, 013°39'E, (grid number 9247/2), elevation 621 m, close to a brook, on bark of *Sambucus nigra*. – 18 May 2019, collected by Roman Türk (60292), determined by Walter Obermayer (2020).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1198. ***Bacidina sulphurella*** (Sampaio) Markus Hauck
& Volkmar Wirth

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, 6 km northeast of the centre of Graz, forestry road from Stifting to 'Auf der Ries', 1.3 km northeast of Fuchsriegel, 47°05'39"N, 015°30'36"E, (grid number 8959/1), elevation 450 m, mixed forest (with *Abies alba*, *Pinus sylvestris*, *Picea abies*, *Fagus sylvatica*, etc.), along a forestry road, on bark of dead *Alnus glutinosa*. – 24 December 2019, collected and determined by Walter Obermayer (15221).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1199. ***Baeomyces rufus*** (Hudson) Rebentisch

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Stubalpe, 17 km W of Köflach, 1 km southwest of Salzstiegelhaus, just west of the path to Speikkogel, 47°03'40"N, 14°51'50"E, (grid number 8955/1), elevation 1600 m, west exposed forest with *Picea abies*, *Larix decidua*, and some intermixed *Sorbus aucuparia*, on earthy raw soil. – 25 October 2020, collected and determined by Walter Obermayer (15361).

Note: TLC (specimen in GZU tested): Stictic acid, constictic acid, gyrophoric acid (in apothecia).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1200. ***Buellia maungatuensis*** Elix & Helmut Mayrhofer

- ISOTYPE -

NEW ZEALAND, South Island, Otago, Mount Maungatua, southwest of Dunedin, c. 500 m west of the summit, 45°54'S, 170°08'E, elevation 850 m, on rock. – 31 January 1985, collected by Helmut Mayrhofer (10477), Hannes Hertel & Alan Mark, determined by Jack Elix (2016/2017).

Note: TLC (Elix, 2017; all specimens tested): Norstictic acid (maj.), connorstictic acid (min./tr.). - Original description: Elix J.A. & Mayrhofer H. 2017: New species and new records of buellioid lichens (Physciaceae, Ascomycota) from New Zealand. - Telopea 20: 75–84.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1201. ***Buellia ocellata*** (Flörke) Körber

NEW ZEALAND, South Island, Canterbury, Canterbury Plains, 11 km east of Rakaia, south-east of Bankside, Bankside Scientific Reserve, 43°44'S, 172°09'E, elevation 70 m, on siliceous pebbles (on the ground). – 14 January 1985, collected by Helmut Mayrhofer (21603) [excursion together with Hannes Hertel, Colin Meurk & Brian Molloy], determined by Jack Elix (2017).

Note: TLC (Elix 2017): Arthothelin, 4,5-dichloronorlichexanthon (beige thallus UV+orange, K-). All specimens are intermixed with *Buellia aethalea* (grayish thallus UV-, K+ red due to norstictic acid).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1202. ***Caloplaca obscurella*** (Johann Lahm ex Körber)
Theodor Fries

CZECH REPUBLIC, North Bohemia, Krkonoše Mountains, Semily district, 800–850 m north-west of the church of Vítkovice, 50°41'29.5"N, 015°31'12.9"E, elevation 772 m, tree alley along roadside, on bark of *Acer pseudoplatanus*. – 3 May 2019, collected and determined by Zdeněk Palice (26857).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1203. ***Calvitimela armeniaca*** (DeCandolle) Hafellner

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 19.5 km northwest of the centre of Knittelfeld, 600 m south-southeast of the summit of Hochreichhart, southeast-facing slopes between the ridge Schmähhausrücken and the saddle Brandstättertörl, 47°21'32"N, 014°41'03"E, (grid number 8654/1), elevation 2260 m, boulderfield, on strongly inclined (and overhanging) faces of a gneissic rock. – 19 October 2018, collected and determined by Walter Obermayer (14121).

Note: TLC (specimen in GZU tested): Protocetraric acid, alectorialic acid, barbatolic acid (?), roccellic acid, unknown (in A above alectorialic acid).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1204. ***Candelaria pacifica*** Westberg

CZECH REPUBLIC, South Bohemia, Šumava Mountains, 11.2 km southwest of Volary, Nové Údolí, abandoned village 'Krásná hora', 48°50'36"N, 013°46'14.1"E, elevation 882 m, on bark of *Robinia pseudacacia*. – 25 October 2014, collected and determined by Zdeněk Palice (18305).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1205. ***Candelariella medians*** (Nylander) Annie Lorrain Smith

ALBANIA, Northern Albania, Shkodër district, Shkodër, Rozafa (castle hill), at the southern edge of the town, 42°02'55"N, 019°29'40"E, elevation 50 m, rocky slope exposed to the north, on low outcrops of limestone. – 23 August 2007, collected and determined by Josef Hafellner (80788) [excursion together with Mauro Tretiach, Lucia Muggia, Massimiliano Piccotto, and Jani Marka].

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1206. ***Catillaria nigroclavata*** (Nylander) Julius Steiner

ITALY, Veneto, 10 km northeast of the centre of the city of Venice, Comune Cavallino-Treporti, near Treporti, 45°28'05.6"N, 012°27'19.6"E, elevation 3 m, avenue trees, on bark of *Robinia pseudacacia*. – 26 May 2002, collected and determined by Klaus Kalb.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1207. ***Cetraria sepincola*** (Ehrhart) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Stubalpe, 17 km W of Köflach, 1 km southwest of Salzstiegelhaus, just west of the path to Speikkogel, 47°03'40"N, 14°51'50"E, (grid number 8955/1), elevation 1600 m, open west exposed forest with *Picea abies*, *Larix decidua*, and some intermixed *Sorbus aucuparia*, on twigs of *Larix decidua*. – 25 October 2020, collected and determined by Walter Obermayer (15367).

Note: TLC (specimen in GZU tested): Protolichesterinic acid (maj.), lichesterinic acid (min.).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1208. ***Cetrariella delisei*** (Bory ex Schaerer) Kärnefelt & Arne Thell

CANADA, Nunavut, Victoria Island, Kitikmeot Region, Cambridge Bay (=Iqaluktuuttiaq), 69°08'00"N, 105°03'11"W, elevation 23 m, on soil over siliceous rocks. – 26 July 2018, collected and determined by Roman Türk (60060).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1209. ***Cetrelia cetrarioides*** (Delise ex Duby) William L. Culberson
& Chicita F. Culberson

AUSTRIA, Steiermark (=Styria), Eastern Alps, Wölz Tauern, 6.3 km southeast of the centre of Öblarn, valley of Walchen, 1.5 km east-southeast of "Gasthof zum Bergkreuz", 47°25'23"N, 014°03'16"E, (grid number 8550/3), elevation 1050 m, northeast exposed montane spruce forest, on bark of *Alnus incana* (almost lying stem, 1 m above ground). – 13 August 2020, collected and determined by Walter Obermayer (15314).

Note: TLC (specimen in GZU and CANB tested): Atranorin (min./tr.), perlatolic acid syndrome (maj.).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1210. ***Cetrelia olivetorum*** sensu stricto (Nylander)
William L. Culberson & Chicita F. Culberson

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Weststeirisches Riedelland, 16 km south of the centre of Graz, 1.7 km west of the centre of Wundschuh, Kaiserwald-area, southwestern shore of the pond 'Neuteich', 46°55'38"N, 015°25'40"E, (grid number 9058/4), elevation 330 m, mixed forest along the shore, on *Quercus robur* (bark of branches fallen down from treetop). – 26 June 2019, collected and determined by Walter Obermayer (15212).

Note: TLC (specimen in GZU tested): Atranorin (min.), olivetoric acid (maj.), unknowns. All other specimens tested with spot test (medulla C+ red).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1211. ***Chrysothrix chlorina*** (Acharius) Jack Rodney Laundon

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 15.5 km northwest of the centre of Knittelfeld, valley of Ingering, 4.6 km north-northwest of the centre of 'Ingering II', 47°18'29"N, 014°40'29"E, (grid number 8654/3), elevation 1100 m, siliceous outcrops in a spruce forest (along the road), on overhanging rock faces (exposed to the west). – 19 October 2018, collected and determined by Walter Obermayer (14059).

Note: TLC (specimen in GZU tested): Calycin, vulpinic acid, zeorin (contamination?), two fatty acids, unknown.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1212. ***Cladonia pyxidata*** (Linnaeus) Hoffmann
subspecies *pocillum* (Acharius) Eilif Dahl

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, south facing slopes of Dachstein Massif, 5.1 km northwest of the centre of Ramsau, 400 m north of Neustattalm, southwest facing slopes of Schönbühel, near Waldboden, 47°26'15"N, 13°36'20"E, (grid number 8547/2), elevation 1530-1580 m, southwest-facing slopes of an open *Larix decidua* forest, on coniferous litter and bryophytes (above a limestone rock). – 2 November 2020, collected and determined by Walter Obermayer (15382).

Note: TLC (specimen in GZU tested): Fumarprotocetraric acid (maj.), protocetraric acid (tr.), unknowns.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1213. ***Cladonia pyxidata*** (Linnaeus) Hoffmann
subspecies *pocillum* (Acharius) Eilif Dahl

GREECE, Rhodes, near the bay of Navarone, road from Lindos to Pefki (=Pefkos), 2.2 km southwest of the centre of Lindos, 1.6 km east-northeast of the beach of Pefki, 460 m east of the switchback of the road (which is near the 'Prophet Elias monastery'), 36°04'40"N, 028°03'58"E, elevation 55 m, rocky cut-slope along the road, on earthy layer over almost vertical faces of limestone (northeast exposed). – 11 September 2020, collected by Mila Raspa (MR-00345), determined by Walter Obermayer (2020).

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

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1214. ***Cladonia strepsilis*** (Acharius) Grognot

AUSTRIA, Oberösterreich (=Upper Austria), Bohemian Massif, 5.6 km northwest of 'Haibach ob der Donau', 2.3 km north-northwest of the centre of Schlögen, area of Steinerfelsen (close to the river Danube), 48°26'37"N, 013°51'38"E, elevation 462 m, thermophilic rocky heath, on duff (= raw humus) under trees of *Pinus sylvestris*. – 17 October 2019, collected and determined by Franz Berger (34317).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1215. ***Cladonia uncialis*** (Linnaeus) Weber
ex Friedrich Heinrich Wiggers

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Stubalpe, 18.5 km west of the centre of Köflach, Stubalpe, 2.6 km southwest of Hirscheeggarsattel (Salzstiegelhaus), south facing slopes of Speikkogel, 47°03'22"N, 014°50'30"E, (grid number 8955/1), elevation 1950 m, alpine vegetation with siliceous rocks, on ground. – 14 August 2016, collected and determined by Walter Obermayer (13825c).

Note: TLC (specimen in GZU tested): Usnic acid, squamatic acid.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1216. ***Cladonia verticillata*** (Hoffmann) Schaerer

[recently used synonym: *Cladonia cervicornis* subspecies *verticillata*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Schladming Tauern, 11.8 km south-southeast of the centre of Großsölk, 1.2 km southwest of 'St. Nikolai im Sölkta', 47°18'40"N, 014°02'00"E, (grid number 8650/3), elevation 1160 m, pasture ground (close to a transitional mire), on siliceous boulder (50 cm height; horizontal faces). – 14 August 2020, collected and determined by Walter Obermayer (15306).

Note: TLC (specimen in GZU tested): Fumarprotocetraric acid (maj.; four related substances in traces). Thallus Pd+ red.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1217. ***Coenogonium pineti*** (Acharius) Lücking & Lumbsch

[recently used synonym: *Dimerella pineti*]

AUSTRIA, Salzburg, Northern Alpine Foreland (close to the border of the Alps), 2.4 km west-northwest of the centre of 'Obertrum am See', near the village Außerwall, 47°56'41"N, 013°02'39"E, (grid number 8044/3), elevation 615 m, on bark of *Picea abies* (stem height 1.2–2 m). – 2 May 2019, collected and determined by Roman Türk (60245).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1218. ***Collema nigrescens*** (Hudson) DeCandolle

GREECE, Kérkyra Island (=Corfu Island), 15 km (as the crow flies) south of the centre of Kérkyra city, southwest of the centre of Moraitika, 39°28'47"N, 019°55'16"E, elevation 80 m, east-facing slopes (forest with mainly *Olea europaea*), on bark of old *Olea europaea*. – 7 August 2018, collected by Mila Raspa (MR-00115), determined by Walter Obermayer (2020).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1219. ***Cyphelium tigillare*** (Acharius) Acharius

[recently proposed name: *Calicium tigillare*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, south facing slopes of Dachstein Massif, 4.8 km northwest of the centre of Ramsau, forestry road from Neustattalm via Waldboden-area to Maralm, 150 m north of Neustattalm, 47°26'15"N, 13°36'20"E, (grid number 8547/2), elevation 1535 m, northwest-facing slopes of a *Larix decidua* forest (along a forestry road), on bark of *Larix decidua* (near the base). – 2 November 2020, collected and determined by Walter Obermayer (15374).

Note: The occurrence on bark is only rarely documented.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1220. ***Dirinaria rhodocladonica*** Kalb, Schumm & Elix

BRAZIL, Mato Grosso do Sul, between Sidrolândia and Nioaque, c. 80 km southwest of Campo Grande, 21°05'S, 055°30'W, elevation 550 m, on fence posts (along a pasture). – 16 November 1979, collected by Klaus Kalb (42569) & Gertude Plöbst, determined by Klaus Kalb.

Note: TLC (Kalb): Atranorin (maj.), divaricatic acid (maj.), nordivaricatic acid (min./tr.), rhodocladonic acid (submaj./min.), unknown terpenoids.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1221. ***Evernia prunastri*** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 2.7 km north of the centre of Sankt Radegund, Schöckl area, path from Schöcklkreuz to Schöcklkopf, 400 m west-southwest of the chapel Schöcklkreuz, 47°12'12.6"N, 015°28'43.3"E, (grid number 8758/4), elevation 1220 m, free standing trees (due to a windbreakage), on stem bark of *Acer pseudoplatanus*. – 30 December 2017, collected and determined by Walter Obermayer (13980).

Note: TLC (specimen in GZU examined): Atranorin, chloroatranorin, evernic acid, usnic acid (min.), two fatty acids (min.).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1222. ***Felipes leucopellaeus*** (Acharius) Fritsch & Göran Thor
[recently used synonym: *Arthonia leucopellaea*]

AUSTRIA, Oberösterreich (=Upper Austria), Northern Alpine Foreland, Kobernaußerwald, 8.2 km southwest of Lohnsburg, valley of Riedlbach, 900 m north-northeast of Winterleiten, 48°04'35"N, 013°21'48"E, (grid number 7946/1), elevation 625 m, spacious 'selection cutting' coniferous forest, on bark of a felled *Abies alba*. – 2 April 2018, collected and determined by Franz Berger (33024).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1223. ***Flavoparmelia caperata*** (Linnaeus) Hale

GREECE, Kérkyra Island (=Corfu Island), 15 km (as the crow flies) south of the centre of Kérkyra city, southwest of the centre of Moraitika, just north of the village Chlomatiana, 39°27'55"N, 019°55'20"E, elevation 70–80 m, east-facing slopes (forest with mainly *Olea europaea*), on bark of young *Olea europaea*. – 10 August 2018, collected by Mila Raspa (MR-00116), determined by Walter Obermayer (2020).

Note: TLC (specimen in GZU tested): Usnic acid, protocetraric acid, caperatic acid syndrom, unknown. Specimen in GZU with apothecia. All specimens issued with accompanying *Parmotrema perlatum* (TLC from GZU-specimen: Atranorin, chloroatranorin, stictic acid, constictic acid, menegazziaic acid).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1224. ***Fuscopannaria leucosticta*** (Tuckerman)
Per Magnus Jørgensen

GREECE, Kérkyra Island (=Corfu Island), 15 km (as the crow flies) south of the centre of Kérkyra city, southwest of the centre of Moraitika, just north of the village Chlomatiana, 39°27'55"N, 019°55'20"E, elevation 70–80 m, east-facing slopes (forest with mainly *Olea europaea*), on bark of old *Olea europaea*. – 10 August 2018, collected by Mila Raspa (MR-00118), determined by Walter Obermayer (2020).

Note: Specimen in GZU with intermixed *Normandina pulchella*.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1225. ***Glaucomaria bicincta*** (Ramond) Sergii Kondratyuk
[recently used synonym: *Lecanora bicincta*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 18 km northwest of the centre of Knittelfeld, 9 km north of the village 'Ingering II', south facing slopes of Hochreichhart, path from Schmähhausrücken to the summit, 47°21'06"N, 014°40'46"E, (grid number 8654/1), elevation 2000 m, ridge area with rock-outcrops in alpine vegetation, on siliceous (Fe-rich), overhanging rock faces (exposed to the south). – 19 October 2018, collected and determined by Walter Obermayer (14086).

Note: Associated species (in GZU-specimen): *Pleopsidium chlorophanum*.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1226. ***Lecanora epanora*** (Acharius) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Stubalpe, 6.4 km southeast of Obdach, valley of Rossbach, southeast of the farmstead Theisinger, 47°02'18"N, 014°45'57"E, (grid number 8954/4), elevation 1050 m, forest glade, on gneissic rocks (rich in heavy metals). – 27 May 1994, collected and determined by Markus Möslinger (L160-b) [excursion together with Josef Hafellner, Alois Wilfling, and Heribert Köckinger].

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1227. ***Lecanora polytropa*** (Ehrhart) Rabenhorst

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, mountains north of Seckau, ridge area between Hämmerkogel and Schwaigerhöhe, 47°20'25"N, 014°45'25"E, (grid number 8654/4), elevation 2130 m, windblown ridge with open alpine vegetation, on gneissic fieldstones. – 15 October 2017, collected and determined by Josef Hafellner (83734).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1228. ***Lecidella elaeochroma*** agg.

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 2.5 km north-northwest of the centre of Sankt Radegund, Schöckl area, 50 m southeast below the summit Schöcklkopf, 47°12'04"N, 015°28'34"E, (grid number 8758/4), elevation 1410 m, edge of a mixed forest (with *Picea abies*, *Fagus sylvatica*, and *Acer pseudoplatanus*), on bark of dead *Fagus sylvatica*. – 9 March 2019, collected and determined by Walter Obermayer (15186).

Note: Basal area of the hymenium inspersed.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1229. ***Lecidella elaeochroma*** agg.

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 5.5 km east-northeast of the centre of Friesach, northeast facing slopes of 'Hohe Rannach', Rannachgraben, 800 m northwest of Buchhofer, 47°10'51"N, 015°24'24"E, (grid number 8858/1), elevation 590 m, forest area with *Acer pseudoplatanus* and *Fagus sylvatica*, on bark of twigs of *Fraxinus excelsior* (lying on the ground). – 26 October 2018, collected and determined by Walter Obermayer (14061).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1230. ***Lecidella elaeochroma*** agg.

AUSTRIA, Vorarlberg, Eastern Alps, Allgäu Alps, 13.7 km southwest of the centre of Oberstdorf (in Germany), 3.8 km northwest of Mitterberg, path from 'Ifenhütte' to the summit of 'Hoher Ifen', 47°20'56"N, 010°07'15"E, (grid number 8626/4), elevation 1730 m, subalpine vegetation near the timber line, on bark and wood of *Juniperus communis*. – 23 August 2018, collected by Roman Türk (60410a), determined by Josef Hafellner (2020).

Note: TLC (specimen in GZU tested): Atranorin, two xanthenes (first xanthone at the height of granulysin in A/B/C, second xanthone above the first in A).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1231. ***Lepra albescens*** (Hudson) Hafellner

[recently used synonym: *Pertusaria albescens*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 2.5 km north-northwest of the centre of Sankt Radegund, Schöckl area, 50 m southeast below the summit Schöcklkopf, 47°12'04"N, 015°28'34"E, (grid number 8758/4), elevation 1410 m, edge of a mixed forest (with *Picea abies*, *Fagus sylvatica*, and *Acer pseudoplatanus*), on bark of dead *Fagus sylvatica*. – 9 March 2019, collected and determined by Walter Obermayer (15185).

Note: TLC (specimen in GZU tested): Three fatty acids of the allo-pertusaric acid syndrome.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1232. ***Lepra corallina*** (Linnaeus) Hafellner

[recently used synonym: *Pertusaria corallina*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Schladming Tauern, 11.8 km south-south-east of the centre of Großsölk, 1.2 km southwest of 'St. Nikolai im Sölkta', 47°18'40"N, 014°02'00"E, (grid number 8650/3), elevation 1160 m, pasture ground (close to a transitional mire), on siliceous boulder (50 cm height; horizontal and inclined faces). – 14 August 2020, collected and determined by Walter Obermayer (15325).

Note: TLC (specimen in GZU tested): Thamnolic acid (maj.).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1233. ***Lepraria diffusa*** (Jack Rodney Laundon) Kukwa
[recently used synonym: *Leproloma diffusum*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 2.5 km north-northwest of the centre of Sankt Radegund, Schöckl area, 50 m southeast below the summit Schöcklkopf, 47°11'56"N, 015°28'40"E, (grid number 8758/4), elevation 1220 m, south-facing steep calcareous cliffs, on plant remnants in cracks of strongly inclined faces of limestone (near the ground). – 22 April 2019, collected and determined by Walter Obermayer (14180).

Note: TLC (all specimens tested; the more light-greenish parts and the more yellowish parts show the same chemistry): 4-oxypannaric acid 2-methylester (maj.), unknowns (min./tr.).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1234. ***Leptogium saturninum*** (Dickson) Nylander

AUSTRIA, Steiermark (=Styria), Eastern Alps, Wölz Tauern, 16.8 km south-southeast of the centre of Irdning, 4.4 km southeast of Donnersbachwald, near the confluence of the brooks Lärchkarbach and Donnersbach, 47°21'23"N, 014°09'28"E, (grid number 8650/2), elevation 1085 m, floodplain area of the brook Lärchkarbach, on bark of *Alnus incana* (partly covered with bryophytes). – 15 August 2020, collected and determined by Walter Obermayer (15305).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1235. ***Letharia vulpina*** (Linnaeus) Hue

AUSTRIA, Steiermark (=Styria), Eastern Alps, Wölz Tauern, 3.2 km southwest of the centre of Pusterwald, Bärenal, just south of Steinbachhütte (at the path to Grillerhütte), 47°17'10"N, 014°20'55"E, (grid number 8752/4), elevation 1580 m, single trees of *Larix decidua* (in a clearing of a montane forest), on bark of *Larix decidua*. – 11 July 2009, collected and determined by Josef Hafellner (73357).

Note: All specimens with pycnidia.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1236. ***Leucodermia leucomelos*** (Linnaeus) Klaus Kalb
[recently used synonym: *Heterodermia leucomelos*]

SPAIN, Canary Islands, El Hierro, El Golfo, south above the village Frontera, Hoya Pequeña, 27°44'40"N, 017°59'55"W, elevation 820 m, *Castanea-Juglans*-grove, on bark of limbs and twigs of *Juglans regia*. – 12 February 1995, collected and determined by Josef Hafellner (85083).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1237. *Lobaria linita* (Acharius) Rabenhorst

AUSTRIA, Vorarlberg, Eastern Alps, Verwall Alps, Hochjoch-Massif, 5 km east-southeast of the centre of Schruns, near southern shore of the lake Schwarzsee, 47°04'08"N, 009°58'55"E, (grid number 8952/2), elevation 2100 m, north-exposed amphibolitic rock cliffs, on inclined rock faces. – 6 August 2008, collected and determined by Josef Hafellner (78904).

Note: TLC (specimen in GZU tested): Methyl gyrophorate (maj.), tenuiorin (min.), unknown (4?/6-7/5-6).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1238. *Lobaria pulmonaria* (Linnaeus) Hoffmann

SPAIN, Canary Islands, Tenerife, Cordillera Dorsal, Bosque de la Esperanza, near the road (TF-24), c. 4 km northeast below Las Lagunetas, 28°25'40"N, 016°23'15"W, elevation 1250 m, *Pinus canariensis* forest, on bark of *Pinus canariensis*. – 9 February 1989, collected by Josef Hafellner (83952) & Angela Hafellner, determined by Josef Hafellner.

Note: All specimens with apothecia.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1239. *Loxospora elatina* (Acharius) Abramo Massalongo

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Koralpe, Reinischkogel-Massif, 11.2 km northwest of the centre of Stainz, southwest of the hilltop Straußkogel, northeast of the dilapidated building Dornermühle, 46°57'15"N, 015°08'50"E, (grid number 9056/3), elevation 1060 m, forest with *Picea abies* and *Abies alba*, on bark of *Picea abies*. – 18 June 2006, collected by Josef Hafellner (70544) & Lucia Muggia, determined by Josef Hafellner.

Note: TLC (specimen in GZU tested): Thamnic acid (maj.), elatinic acid (maj.), unknowns (min.).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1240. *Melanelixia glabratula* (Lamy) Sandler & Arup

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, 8 km northeast of the centre of Graz, forest area between Neusitz and Grafenhofsiedlung, 47°07'30"N, 015°30'38"E, (grid number 8859/3), elevation 480–490 m, mixed forest, on bark of dead *Fraxinus excelsior*. – 7 January 2018, collected and determined by Walter Obermayer (13987).

Note: Isidia show all transitions from simple ones to densely coralloid branched ones.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1241. *Miriquidica garovaglii* (Schaerer) Hertel & Rambold

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 19.5 km northwest of the centre of Knittelfeld, 600 m south-southeast of the summit of Hochreichhart, southeast-facing slopes between the ridge Schmähhausrücken and the saddle Brandstättertörl, 47°21'32"N, 014°41'03"E, (grid number 8654/1), elevation 2260 m, boulderfield, on slightly inclined faces of gneissic rock. – 19 October 2018, collected and determined by Walter Obermayer (14120).

Note: TLC (specimen in GZU tested): Miriquidic acid, stictic acid syndrome.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1242. *Multiclavula mucida* (Persoon) Ronald Petersen

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, Totes Gebirge, 10 km east-northeast of the centre of Bad Aussee, path from Gößl (eastern shore of the lake Grundlsee) along the brook Toplitzbach to the lake Toplitzsee, 47°38'12"N, 013°54'25"E, (grid number 8349/3), elevation 720 m, forest area (with *Acer pseudoplatanus*, *Abies alba*, *Picea abies*, and *Fraxinus excelsior*) along the brook, on wood of *Picea abies* (near the ground). – 21 September 2014, collected and determined by Roman Türk (54465).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1243. *Myriolecis wetmorei* (Śliwa) Śliwa, Zhao Xin & Lumbsch
[recently used synonym: *Lecanora wetmorei*]

VENEZUELA, Mérida, Miranda district, between Almorzadero and Pinango, 08°55'N, 070°50'W, elevation 4200 m, paramo vegetation, on rotten leaves. – 6 and 17 August 1989, collected and determined by Klaus Kalb [determination confirmed by Lucyna Śliwa].

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1244. *Neofuscelia pulla* (Acharius) Esslinger
[recently proposed name: *Xanthoparmelia pulla*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, Raabklamm, 4.6 km west of the centre of Weiz, 600 m northeast of Gutenberg, orographically left side of the gorge, 47°12'55"N, 015°34'07"E, (grid number 8759/3), elevation 560 m, siliceous outcrops (schist) in open mixed forest, on east-exposed inclined rock faces. – 23 August 2009, collected and determined by Josef Hafellner (73977).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1245. *Nephroma parile* (Acharius) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Wölz Tauern, 16.8 km south-southeast of the centre of Irdning, 4.4 km southeast of Donnersbachwald, just south of the footbridge across the brook Lärchkarbach, 47°21'29.5"N, 014°09'43"E, (grid number 8650/2), elevation 1115 m, floodplain area of the brook Lärchkarbach, on stem bark of *Alnus incana* (covered with bryophytes; near the base). – 15 August 2020, collected and determined by Walter Obermayer (15301).

Note: Some specimens show intermixed *Peltigera* cf. *praetextata*.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1246. *Normandina pulchella* (Borrer) Nylander

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, 8.8 km east of the centre of Graz, 2.5 km west-northwest of Laßnitzhöhe, Äußere Ragnitz, rearmost part of the valley, 300 m south-southwest of Doktorbauer, 47°05'10"N, 015°33'03"E, (grid number 8959/1), elevation 480 m, mixed forest, on horizontal faces of a fallen *Fraxinus excelsior* (in large part covered with *Hypnum cupressiforme*). – 18 October 2020, collected and determined by Walter Obermayer (15359).

Note: The thalli covered many square decimetres of the bark of the lying (!) tree.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1247. *Ocellularia diacida* Hale

THAILAND, Chumphon Province, Patieu district, Tambon Chumcho, surroundings of Tung Yoa waterfall, 10°46'43"N, 099°18'32.5"E, elevation 85 m, disturbed, light deciduous forest along a creek, on bark of deciduous trees. – 20 December 2015, collected by Klaus Kalb (41376) & Jutarat Sutjaritturakan, determined by Klaus Kalb.

Note: TLC (Kalb): Hirtifructric acid (maj.), conhirtifructric acid (maj.).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1248. *Ocellularia umbilicata* Müller Argoviensis

BRAZIL, Mato Grosso, between São Vicente and Aquas Quentes, c. 90 km east-southeast of Cuiabá, 15°51'S, 055°31'W, elevation 650 m, cerradão (a type of dry forest found in Brazil), on bark of an unidentified tree. – 2 July 1980, collected and determined by Klaus Kalb (31668).

Note: TLC (Kalb 1998): Psoromic acid, 2'-O-methylpsoromic acid.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1249. *Ophioparma ventosa* (Linnaeus) Norman

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 18 km northwest of the centre of Knittelfeld, 9 km north of the village 'Ingering II', south facing slopes of Hochreichhart, path from Schmähhausrücken to the summit, 47°21'06"N, 014°40'46"E, (grid number 8654/1), elevation 2000 m, ridge area with gneissic rock-outcrops in alpine vegetation, on inclined rock faces (exposed to the southwest). – 19 October 2018, collected and determined by Walter Obermayer (14124).

Note: TLC (specimen in GZU tested): Usnic acid, divaricatic acid, thamnolic acid, norstictic acid (tr.), haemoventosin and related pigments in apothecia.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1250. *Parmelia omphalodes* (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Schladming Tauern, 11.8 km south-south-east of the centre of Großsölk, 1 km southwest of 'St. Nikolai im Sölkta', 47°18'55"N, 014°02'20"E, (grid number 8650/3), elevation 1160 m, pasture ground, on siliceous boulder (slightly inclined faces). – 14 August 2020, collected and determined by Walter Obermayer (15308).

Note: TLC (specimen in GZU tested): Atranorin (tr.), stictic acid, constictic acid, lobaric acid, lich-esterinic acid, protolichesterinic acid.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1251. *Parmelia saxatilis* (Linnaeus) Acharius [in the narrowest sense]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Schladming Tauern, 11.8 km south-south-east of the centre of Großsölk, 1 km southwest of 'St. Nikolai im Sölkta', 47°18'55"N, 014°02'20"E, (grid number 8650/3), elevation 1160 m, pasture ground, on siliceous boulder (slightly inclined faces). – 14 August 2020, collected and determined by Walter Obermayer (15307).

Note: Specimens partly (e.g. in GZU) with intermixed *Parmelia omphalodes*. TLC (specimen in GZU tested): Atranorin (tr.), chloroatranorin (submaj.), stictic acid (maj.), constictic acid (maj.), lobaric acid (maj.), protocetraric acid (tr.), galbinic acid (?; tr.), unknown grey pigment (3-4/2/5-6).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1252. *Parmeliella triptophylla* (Acharius) Müller Argoviensis

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, south facing slopes of Dachstein Massif, 5 km east-northeast of the centre of Ramsau, southernmost area of Silberkaralm, 47°26'24"N, 013°42'56"E, (grid number 8548/2), elevation 1130 m, forest (exposed to the west) with mainly *Fagus sylvatica* and *Acer pseudoplatanus*, on bark of *Fagus sylvatica*. – 18 October 2019, collected and determined by Walter Obermayer (15292).

Note: All specimens with numerous apothecia.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1253. *Peltigera didactyla* (Withering) Jack Rodney Laundon

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, urban area of Graz, 1.9 km northeast of the centre of Graz, botanical garden of the University Graz, 'Alpinum' near the greenhouses, 47°04'55"N, 15°27'25"E, (grid number 8958/2), elevation 375 m, on bryophyte cover (above small calcareous boulders). – 25 April 2018, collected and determined by Josef Hafellner (83913).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1254. *Peltigera horizontalis* (Hudson) Baumgarten

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 1.2 km south-southwest of Semriach, entrance area of Kesselfallklamm, 47°12'13"N, 015°23'58"E, (grid number 8758/3), elevation 585 m, gorge area with limestone rocks, shady and wet conditions, on bryophytes (covering a slightly inclined face of a boulder). – 8 December 2017, collected and determined by Walter Obermayer (13948).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1255. *Peltigera leucophlebia* (Nylander) Gyelnik

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, south facing slopes of Dachstein Massif, 5.7 km northwest of the centre of Ramsau, 1.1 km north-northwest of Neustattalm, area of Maralm, along the brook Marbach, 47°27'27"N, 13°36'03"E, (grid number 8547/2), elevation 1440–1450 m, vegetation with *Pinus mugo*, *Salix* spec., *Larix decidua*, and *Picea abies*, on coniferous litter and bryophytes (covering a strongly shadowed calcareous rock). – 2 November 2020, collected and determined by Walter Obermayer (15380).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1256. *Peltigera praetextata* (Flörke ex Sommerfelt) Zopf

AUSTRIA, Steiermark (=Styria), Eastern Alps, Wölz Tauern, 16.8 km south-southeast of the centre of Irdning, 4.4 km southeast of Donnersbachwald, near the confluence of the brooks Lärchkarbach and Donnersbach, 47°21'23"N, 014°09'28"E, (grid number 8650/2), elevation 1085 m, floodplain area of the brook Lärchkarbach, on stem bark of *Alnus incana* (near the base). – 15 August 2020, collected and determined by Walter Obermayer (15298).

Note: Isidia richly developed.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1257. *Phaeophyscia ciliata* (Hoffmann) Moberg

AUSTRIA, Tyrol, East Tyrol, Eastern Alps, Venediger Group, westernmost area of Virgental, 18 km west of the centre of 'Matrei in Osttirol', 5.8 km west of the centre of Prägraten, waterfall ('Großbachfall') of the creek 'Umbalbach', 47°00'31"N, 012°18'00"E, (grid number 8939/4), elevation 1580 m, drizzle area of the waterfall, on young twigs of *Picea abies*. – 5 October 2016, collected and determined by Franz Berger (31237).

Note: All specimens with apothecia.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1258. *Phaeorrhiza nimbose* (Fries) Helmut Mayrhofer & Poelt

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, Hochschwab Massif, Aflenzer Bürgeralpe, 4.4 km north of the centre of Aflenz Kurort, path from Schönleitenhaus via Endriegel to Mitteralm, just north of Windgrube, 47°35'03.4"N, 015°13'38.2"E, (grid number 8457/1), elevation 1790 m, windblown ridge (above limestone), on compact soil and bryophytes (in small crevices). – 6 October 2020, collected and determined by Helmut Mayrhofer (21901).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1259. *Pleopsidium chlorophanum* (Wahlenberg) Zopf

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 18 km northwest of the centre of Knittelfeld, 9 km north of the village 'Ingering II', south facing slopes of Hochreichhart, path from Schmähhausrücken to the summit, 47°21'06"N, 014°40'46"E, (grid number 8654/1), elevation 2000 m, ridge area with rock-outcrops in alpine vegetation, on siliceous (iron-rich), overhanging rock faces (exposed to the south). – 19 October 2018, collected and determined by Walter Obermayer (14084).

Note: TLC (specimen in GZU tested): Rhizocarpic acid, two fatty acids (acaranic acid, acarenoic acid).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1260. ***Protoparmelia nephaea*** (Sommerfelt) Rolf Santesson
ex Poelt & Obermayer

AUSTRIA, Steiermark (=Styria), Eastern Alps, Wölz Tauern, valley of Großsölk, 1.8 km southeast of 'St. Nikolai im Sölkta', slopes southeast of Hansenalm, above a mine tunnel, 47°18'30"N, 014°03'54"E, (grid number 8650/3), elevation 1350 m, spruce forest, on mica schist (rich in heavy metals). – 27 October 1993, collected and determined by Markus Möslinger (L495-b).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1261. ***Psilolechia lucida*** (Acharius) Maurice Choisy

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 15.5 km northwest of the centre of Knittelfeld, valley of Ingering, 4.6 km north-northwest of the centre of 'Ingering II', 47°18'29"N, 014°40'29"E, (grid number 8654/3), elevation 1100 m, siliceous outcrops in a spruce forest (along the road), on overhanging rock faces (exposed to the west). – 19 October 2018, collected and determined by Walter Obermayer (14094).

Note: TLC (specimen in GZU tested): Rhizocarpic acid (and one accompanying substance).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1262. ***Punctelia borreri*** (Smith) Krog

CROATIA, Primorje-Gorski Kotar County, Košljun (tiny island in the Puntarska Draga bay, almost totally surrounded by the island of Krk, northwest of Punat), 45°01'30"N, 014°37'07"E, elevation 2 m, forest area close to the beach, on stem bark of *Pinus halepensis*. – 29 August 2017, collected and determined by Helmut Mayrhofer (21629).

Note: TLC (Kosnik & Mayrhofer): Atranorin, gyrophoric acid. All specimens with apothecia.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1263. ***Pycnothelia papillaria*** Dufour

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Korralpe, 10.4 km southeast of the centre of Wolfsberg, 300 m southeast of Korralpenhaus, path in direction to Krakaberg, 46°47'25"N, 014°57'32.5"E, (grid number 9255/2), elevation 1975 m, cutslopes in alpine vegetation, on compact humic layer (over siliceous soil). – 24 September 2020, collected and determined by Helmut Mayrhofer (21899).

Note: TLC (specimen in GZU tested): Atranorin, protolichesterinic acid [lichesterinic and squamatic acids not detected].

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1264. ***Ramalina celastri*** (Sprengel) Krog & Swinscow

NEW ZEALAND, South Island, Canterbury, Christchurch city, New Brighton, 43°30'00"S, 172°43'30"E, elevation 7 m, sand dunes close to the ocean, on *Sambucus* (cf.) *nigra*. – 14 January 2018, collected and determined by Roman Türk (59446).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1265. ***Ramalina farinacea*** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Wölz Tauern, 16.8 km south-southeast of the centre of Irtdning, 4.3 km southeast of Donnersbachwald, near the confluence of the brooks Lärchkarbach and Donnersbach, 47°21'20"N, 014°09'17"E, (grid number 8650/2), elevation 1070 m, bank of the brook Donnersbach, on bark of *Alnus incana*. – 15 August 2020, collected and determined by Walter Obermayer (15299).

Note: TLC (specimen in GZU tested): Protocetraric acid (maj.), usnic acid (faint traces), norstictic acid (faint traces).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1266. ***Ramalina pollinaria*** agg.

AUSTRIA, Salzburg, Northern Alpine Foreland, 17 km northwest of the centre of Salzburg, 4.5 km southwest of the centre of 'Neumarkt am Wallersee', 1 km south of Weng, 47°55'35"N, 013°10'23"E, (grid number 8045/3), elevation 510 m, trees along the banks of the brook Altbach, on bark of dead *Quercus robur*. – 27 March 2020, collected and determined by Roman Türk (61103).

Note: TLC (specimen in GZU tested): Usnic acid (min.), evernic acid (maj.). Specimen in GZU with apothecia. The collections might belong to the recently separated taxon *Ramalina europaea*.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1267. ***Ramalina pollinaria*** agg.

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, 6.6 km north-northwest of the centre of Fürstenfeld, 1.3 km northwest of 'Bierbaum an der Safen', "Tausendjährige Eiche" (a probably 1200 years old oak-tree), 47°06'18"N, 016°02'54"E, (grid number 8862/3), elevation 328 m, single, free-standing tree of *Quercus robur*, on bark. – 1 March 2019, collected and determined by Helmut Mayrhofer (21867).

Note: TLC (Mayrhofer & Kosnik): Usnic acid, evernic acid. The collections might belong to the recently separated taxon *Ramalina europaea*.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1268. ***Ramboldia insidiosa*** (Thore Fries) Hafellner

[parasitic on *Lecanora varia*]

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Noric Alps, Nockberge, 8.6 km north-north-east of the centre of Radenthein, 1.2 km southwest of the summit of Mallnock, along the road from Brunnacherhöhe to 'Oswalder-Bockhütte', 46°52'10"N, 013°45'28"E, (grid number 9148/2), elevation 1800 m, subalpine forest with *Larix decidua* and *Pinus cembra*, on log of *Larix decidua*. – 26 September 2008, collected and determined by Franz Berger.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1269. ***Rhizocarpon geographicum*** agg.

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 18 km northwest of the centre of Knittelfeld, 8.5 km north of the village 'Ingering II', south facing slopes of Hochreichhart, path from Ingering-valley to Schmähhausrücken, 47°20'42"N, 014°40'43"E, (grid number 8654/3), elevation 1700 m, mixed forest near the timber line, on siliceous (pegmatitic) rock faces (inclined; 0.5-1.5 m above ground). – 19 October 2018, collected and determined by Walter Obermayer (14083).

Note: TLC (specimen in GZU tested): Rhizocarpic acid, barbatic acid, 4-O-demethylbarbatic acid (min.).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1270. ***Rhizoplaca chrysoleuca*** (Smith) Zopf

CHINA, Western Tibet, prov. Xizang, valley at the north facing slopes of the Mount Kailash region (Gang Rinboqê, གངས་རིན་པོ་ཆེ), 14 km north of Darchen (1 km southwest of Dirapuk Monastery), 31°06'01"N, 081°18'45"E, elevation 5020 m, alpine meadows with big siliceous boulders, on steep faces of a small conglomeratic rock. – 1 October 1999, collected and determined by Walter Obermayer (15205).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1271. ***Rinodina mniaroea*** (Acharius) Körber

ITALY, Südtirol (= provincia autonoma di Bolzano – Alto Adige), Eastern Alps, Zillertal Alps, 20 km north-northwest of the centre of Bruneck, 2.1 km east of the Neves-reservoir, just southeast of 'Chemnitzer Hütte', along the path to the lake Tristensee, 46°57'24"N, 011°48'35"E, elevation 2430 m, alpine meadows, on ground (covering decaying turf and bryophytes). – 15 August 2013, collected and determined by Helmut Mayrhofer (21915).

Note: TLC (Mayrhofer & Kosnik): No lichen substances detected.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1272. ***Sagiolechia atlantica*** Henssen

PORTUGAL, Madeira Island, north above São Roque do Faial, Penha de Aguiã, 32°46' 45"N, 016°50'27"W, elevation 550 m, south exposed cliffs, on volcanic rocks. – 11 February 1990, collected by Josef Hafellner (27858) & Angela Hafellner, determined by Josef Hafellner.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1273. ***Scytinium imbricatum*** (Per Magnus Jørgensen) Otálora,
Per Magnus Jørgensen & Wedin
[recently used synonym: *Leptogium imbricatum*]

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Ankogel Group, 1.1 km north of the centre of Mallnitz, 46°59'55"N, 013°10'26"E, elevation 1205 m, railway embankment (granite gravel, west-northwest exposed), on cushions of bryophytes and layers of fine earth. – 11 June 2017, collected and determined by Franz Berger (31546).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1274. ***Stereocaulon alpinum*** Laurer

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Koralpe, 11 km southeast of the centre of Wolfsberg, 380 m west-southwest of the summit of 'Großer Speikkogel', path from Koralpenhaus in direction to Krakaberg, 46°47'11"N, 014°58'01.4"E, (grid number 9255/2), elevation 2010 m, dwarf shrub heath with siliceous boulders, on ground (amongst *Calluna vulgaris*). – 24 September 2020, collected and determined by Helmut Mayrhofer (21898).

Note: TLC (specimen in GZU tested): Atranorin, lobaric acid, fatty acid (?bourgeanic acid).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1275. ***Stereocaulon dactylophyllum*** Flörke

AUSTRIA, Steiermark (=Styria), Eastern Alps, Schladming Tauern, 11.8 km south-south-east of the centre of Großsölk, 1.2 km southwest of 'St. Nikolai im Sölktaal', 47°18'40"N, 014°02'00"E, (grid number 8650/3), elevation 1160 m, pasture ground (close to a transitional mire), on siliceous boulder (50 cm height; horizontal faces). – 14 August 2020, collected and determined by Walter Obermayer (15315).

Note: TLC (specimen in GZU tested): Atranorin, stictic acid, menegazziaic acid, norstictic acid (min.). All specimens with apothecia.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1276. *Teloschistes chrysophthalmus* (Linnaeus) Beltramini

GREECE, Kérkyra Island (=Corfu Island), 15 km (as the crow flies) south of the centre of Kérkyra city, southwest of the centre of Moraitika, 39°28'47"N, 019°55'16"E, elevation 80 m, east-facing slopes (forest with mainly *Olea europaea*), on small twigs of *Olea europaea*. – 7 August 2018, collected by Mila Raspa (MR-00108), determined by Walter Obermayer (2020).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1277. *Teloschistes flavicans* (Swartz) Norman

AUSTRALIA, Queensland, 20 km east-northeast of Maryborough, Tandora, inlet of Mary River, 25°27'30"S, 152°51'55"E, elevation at sea level m, mangroves along the riverbank, on branches of *Ceriops tagal*. – 23 August 1986, collected by Josef Hafellner (84245) & Roderick Rogers, determined by Josef Hafellner (2018).

Note: Specimen in GZU with apothecia.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1278. *Thalloidima diffractum* Abramo Massalongo

[recently used synonym: *Toninia diffracta*]

AUSTRIA, Salzburg, Eastern Alps, Radstadt Tauern, 3.2 km west of the centre of Mautern-dorf, path from the summit of Großbeck to the summit of Speiereck, 47°07'55"N, 013°38'15"E, (grid number 8847/4), elevation 2140 m, alpine meadows, on compressed soil. – 31 August 2019, collected and determined by Roman Türk (60494).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

**1279. *Thalloidima sedifolia* (Scopoli) Kistenich, Timdal,
Bendiksby & Stefan Ekman**

[recently used synonym: *Toninia sedifolia*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 2.4 km northwest of the centre of Sankt Radegund, Schöckl area, 10 m north of 'Halterhütte', 47°11'50"N, 015°28'11"E, (grid number 8758/4), elevation 1370 m, pseudoalpine vegetation with low calcareous rocks, on earthy cracks of sun exposed faces of limestone (near the ground). – 15 March 2020, collected and determined by Walter Obermayer (15291).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1280. ***Thalloidima sedifolia*** (Scopoli) Kistenich, Timdal,
Bendiksby & Stefan Ekman

[recently used synonym: *Toninia sedifolia*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 2.5 km north-northwest of the centre of Sankt Radegund, Schöckl area, 50 m southeast of (below) the summit Schöcklkopf, 47°11'56"N, 015°28'40"E, (grid number 8758/4), elevation 1220 m, south-facing steep calcareous cliffs, on cracks of strongly inclined, sun exposed faces of limestone. – 22 April 2019, collected and determined by Walter Obermayer (14179).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1281. ***Toniniopsis subincompta*** (Nylander) Kistenich,
Timdal, Bendiksby & Stefan Ekman

[recently used synonym: *Bacidia subincompta*]

AUSTRIA, Oberösterreich (=Upper Austria), Northern Alpine Foreland, Kobernaußerwald, 9.8 km northwest of Frankenmarkt, 1.6 km west-northwest of the valley area 'Hocheck', southeast of the summit 'Wienerhöhe', 48°02'59"N, 013°19'41"E, (grid number 7945/2), elevation 700 m, wet area with dying trees of *Fraxinus excelsior*, on bark of *Fraxinus excelsior*. – 26 February 2019, collected and determined by Franz Berger (33925).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1282. ***Trapeliopsis flexuosa*** (Fries) Coppins & Peter James

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Grazer Bergland, 2.7 km north of the centre of Sankt Radegund, Schöckl area, 50 m southeast of the chapel Schöcklkreuz, parking area, 47°12'13.8"N, 015°28'58.5"E, (grid number 8758/4), elevation 1120 m, mixed forest (with *Picea abies*, *Abies alba*, and *Fagus sylvatica*), on rotten wood of a tree stump. – 9 March 2019, collected and determined by Walter Obermayer (14164).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1283. ***Trapeliopsis granulosa*** (Hoffmann) Lumbsch

AUSTRIA, Oberösterreich (=Upper Austria), Eastern Alps, Northern Limestone Alps, Höllengebirge, 16 km southwest of Gmunden, 5.8 km east of Steinbach am Attersee, west of the summit area of Brunnkogel, 47°49'40"N, 013°37'45"E, (grid number 8147/4), elevation 1700 m, windexposed ridge, on raw-humus (=mor-humus). – 18 May 2020, collected and determined by Roman Türk (61235).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1284. ***Umbilicaria decussata*** (Villars) Zahlbruckner

SWITZERLAND, Kanton Bern, Western Alps, Berner Alps, 21 km south-southeast of Meiringen, path from Grimselpass to Sidelhorn, 400 m southeast of Huseggghütte, 46°33'35"N, 008°19'40"E, elevation 2350 m, outcrops of siliceous rocks (granite, schist) in open alpine vegetation, on subvertical rock faces exposed to the north. – 24 August 2006, collected and determined by Josef Hafellner (69402).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1285. ***Usnea dasopoga*** (Acharius) Nylander

AUSTRIA, Steiermark (=Styria), Eastern Alps, Noric Alps, E-facing slopes of Grebenzen, 6.1 km SSW of Neumarkt, 1.6 km S of Pöllau, between the farmhouse 'Fuchs' and the area 'Königreich', 47°01'13"N, 014°23'18"E, (grid number 8952/3), elevation 1235 m, forest with *Picea abies* and *Larix decidua*, on twigs of *Picea abies*. – 11 August 2010, collected by Walter Obermayer (13100), determined by Philippe Clerc (2014).

Note: TLC (all specimens examined): Usnic acid, salazinic acid; specimens in GZU and CANB with intermixed *Usnea intermedia* (salazinic acid, usnic acid).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1286. ***Varicellaria lactea*** (Linnaeus) Imke Schmitt & Lumbsch
[recently used synonym: *Pertusaria lactea*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 19.5 km northwest of the centre of Knittelfeld, 600 m south-southeast of the summit of Hochreichhart, southeast-facing slopes between the ridge Schmähhausrückten and the saddle Brandstättertörl, 47°21'32"N, 014°41'03"E, (grid number 8654/1), elevation 2260 m, boulderfield, on strongly inclined (and overhanging) faces of a gneissic rock. – 19 October 2018, collected and determined by Walter Obermayer (14122).

Note: TLC (specimen in CANB tested): Lecanoric acid, variolaric acid.

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1287. ***Vulpicida pinastri*** (Scopoli) Jan-Erik Mattsson

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains (=Steirisches Randgebirge), Stubalpe, 17 km W of Köflach, 1 km southwest of Salzstiegelhaus, just west of the path to Speikkogel, 47°03'40"N, 14°51'50"E, (grid number 8955/1), elevation 1600 m, west exposed forest with *Picea abies*, *Larix decidua*, and some intermixed *Sorbus aucuparia*, on twigs of *Larix decidua*. – 25 October 2020, collected and determined by Walter Obermayer (15360).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1288. ***Xalocoa ocellata*** (Fries) Kraichak, Lücking & Lumbsch
[recently used synonym: *Diploschistes ocellatus*]

GREECE, Rhodes, near the bay of Navarone, road from Lindos to Pefki (=Pefkos), 2.2 km southwest of the centre of Lindos, 1.6 km east-northeast of the beach of Pefki, 460 m east of the switchback of the road (which is near the 'Prophet Elias monastery'), 36°04'40"N, 028°03'58"E, elevation 55 m, rocky cut-slope along the road, on almost vertical faces of limestone (exposed to the northeast). – 11 September 2020, collected by Mila Raspa (MR-00351), determined by Walter Obermayer (2020).

Note: Thallus K+ red. TLC (specimen in GZU tested): Norstictic acid (maj.), connorstictic acid (maj.), subnorstictic (tr.), unknown substance (UV366 before H₂SO₄: white; in A above connorstictic acid, in B' just below connorst. acid, in C above connorstictic acid [at the height of diploschistesic acid]).

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1289. ***Xanthocarpia ochracea*** (Schaerer) Abramo Massalongo
& De Notaris

[recently used synonym: *Caloplaca ochracea*]

ALBANIA, Northern Albania, Shkodër district, Shkodër, Rozafa (castle hill), at the southern edge of the town, 42°02'55"N, 019°29'40"E, elevation 50 m, rocky slope exposed to the north, on low outcrops of limestone. – 23 August 2007, collected and determined by Josef Hafellner (80801) [excursion together with Mauro Tretiach, Lucia Muggia, Massimiliano Piccotto, and Jani Marka].

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

OBERMAYER W. 2020: **Dupla Graecensia Lichenum** (2020, numbers 1191–1290). - Fritschiana 96: 1–28.
Distributed by the herbarium GZU, University of Graz, Austria.

1290. ***Xanthoparmelia conspersa*** agg.

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seckau Tauern, 18 km northwest of the centre of Knittelfeld, 8.5 km north of the village 'Ingering II', south facing slopes of Hochreichhart, path from Ingering-valley to Schmähhausrücken, 47°20'45"N, 014°40'43"E, (grid number 8654/3), elevation 1750-1800 m, south-exposed clearing in a mixed forest near the timber line, on siliceous rock faces (strongly inclined; south-southeast exposed). – 19 October 2018, collected and determined by Walter Obermayer (14093).

Note: TLC (specimen in GZU tested): Usnic acid (maj.), stictic acid (maj.), constictic acid (maj.), norstictic acid (submaj.), [no menegazziaic acid].

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

Lichenicolous Biota (Nos 321–340)

Josef HAFELLNER*

HAFELLNER Josef 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana (Graz) 96: 29–45. - ISSN 1024-0306.

Abstract: The 14th fascicle (20 numbers) of the exsiccata 'Lichenicolous Biota' is published. The issue contains material of 12 non-lichenized fungal taxa (10 teleomorphs of ascomycetes, 2 basidiomycetes) and 8 lichenized ascomycetes. Among others, collections of the type species of the following genera are distributed: *Arthrorhaphis* (*A. flavovirescens*, under its heterotypic synonym *A. citrinella*), *Biatoropsis* (*B. usnearum*), *Dacampia* (*D. hookeri*), *Nesolechia* (*N. oxyspora*), *Paralecanographa* (*P. grumulosa*), *Stigmatidium* (*S. schaereri*), and *Teloggalla* (*T. olivieri*).

* University of Graz, Institute of Biology, Division of Plant Sciences, NAWI Graz, Holteigasse 6, 8010 Graz, AUSTRIA.
e-mail: josef.hafellner@uni-graz.at

Introduction

The exsiccata 'Lichenicolous Biota' is continued with fascicle 14 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 or fructifications develop 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 by the New York Botanical Garden as electronic database "Index Herbariorum"). 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 14th fascicle, I gratefully acknowledge the contribution of 1 collection each by Jana KOCOURKOVÁ and Franz BERGER.

In fieldwork I received support by Angela HAFELLNER (née A. OCHSENHOFER), Jolanta MIADLIKOWSKA, Lucia MUGGIA, Jose María EGEA, Helmut MAYRHOFER, and Walter OBERMAYER.

Jana KOCOURKOVÁ, Franz BERGER, and Walter OBERMAYER contributed to the scientific content of the fascicle by the identification of either lichenicolous fungi or hosts, or by personal communications.

Christian SCHEUER and Walter OBERMAYER 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. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

321. *Arthonia parietinaria* Hafellner & A.Fleischhacker

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

Host: *Xanthoria parietina* (thallus, apothecia)

Europe, Austria: Steiermark (Styria), South-Eastern Alpine Foreland, Graz, NE of the city, Jakob-Dirnböck-Gasse 0.4 km SSW of the pond "Hilmteich", 47°04'50"N / 15°27'30"E, c. 370 m alt., GF 8958/2, orchard, on branches of a recently felled *Juglans regia*.

Note 1: *Xanthoria parietina* is the type host of *Arthonia parietinaria*.

Note 2: *Teloggalla olivieri* is present as admixture on the specimen in GZU and may also be detected on other duplicates. Material of that species has been distributed as Lichenicolous Biota no. 339.

Note 3: At the investigated site *Xanthoria parietina* grows intermingled with *Physcia adscendens* which is frequently infected by *Heterocephalacria physciacearum*. Material of that species has been distributed as Lichenicolous Biota no. 323.

14. II. 2014 leg. W. Obermayer & J. Hafellner (85835), det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

322. *Biatoropsis usnearum* Räsänen

in Annales Botanici Societatis Zoologicae Botanicae Fennicae "Vanamo" 5: 8 (1934).

Host: *Usnea* spec. (thallus)

Africa, Canary Islands: Gran Canaria, by the road (GC 70) from Moya to Artenara, between Las Fontanales and the Mirador Los Pinos de Galdar, 28°02'35"N / 15° 37'00"W, c. 1350 m alt., open pine forest, on branches of *Pinus canariensis*.

Note 1: The type host of *Biatoropsis usnearum* has been named *Usnea comosa*, a taxon regarded as heterotypic synonym of *Usnea subfloridana*.

Note 2: The species has been thoroughly treated by Diederich & Christiansen (The Lichenologist 26(1): 49–55, 1994) who also reinvestigated the lectotype preserved in H.

21. II. 1994 leg. J. Hafellner (48083), det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

323. *Heterocephalacria physciacearum* (Diederich) Millanes & Wedin

in Liu et al., Studies in Mycology 81: 120 (2015). – Bas.: *Syzygospora physciacearum* Diederich, Bibliotheca Lichenologica 61: 38 (1996).

Host: *Physcia adscendens* (thallus)

Europe, Austria: Steiermark (Styria), South-Eastern Alpine Foreland, Graz, NE of the city, Jakob-Dirnböck-Gasse 0.4 km SSW of the pond “Hilmteich”, 47°04'50"N / 15°27'30"E, c. 370 m alt., GF 8958/2, orchard, on branches of a recently felled *Juglans regia*.

Note 1: The type host of *Heterocephalacria physciacearum* is *Physcia dubia*.

Note 2: At the investigated site *Physcia adscendens* grows intermingled with *Xanthoria parietina* which is frequently infected by *Arthonia parietinaria*. Material of that species has been distributed as Lichenicolous Biota no. 321.

14. II. 2014 leg. W. Obermayer & J. Hafellner (85834), det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

324. *Paralecanographa grumulosa* (Dufour) Ertz & Tehler

in Fungal Diversity 49(1): 57 (2011). – Bas.: *Opegrapha grumulosa* Dufour, Journal de Physique, de Chimie, d'Histoire Naturelle et des Arts 87: 214 (1818). – Syn.: *Lecanactis grumulosa* (Dufour) Fr., Lichenographia Europaea Reformata: 375 (1831). – *Lecanactis monstrosa* var. *grumulosa* (Dufour) Lettau, Feddes Repertorium Specierum Novarum Regni Vegetabilis, Beiheft 69(1): 47 (1932). – *Lecanographa grumulosa* (Dufour) Egea & Torrente, Bibliotheca Lichenologica 54: 134 (1994).

Host: *Roccella phycopsis* (thallus)

Europe, Spain: Murcia prov., Cabo de Palos c. 25 km E of Cartagena, Cala Reona W of the village, Pico del Atalayón, 37°37'10"N / 00°43'00"W, c. 35 m alt.; large boulder of siliceous schist in stands of low shrubs, on vertical and overhanging rock faces exposed to the NE.

Note 1: Lichenicolous growth is not mentioned in the protologue.

Note 2: The infection of *Roccella* thalli with *Paralecanographa grumulosa* may induce changes in the set of secondary compounds in the parasitized portions of the host thallus (compare Feige et al., Cryptogamic Botany 3: 101–107, 1993).

27. IX. 1987 leg. J. Hafellner (41878) & J. M. Egea, det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

325. *Phaeospora parasitica* (Lönnr.) Arnold

in Flora (Regensburg) 57: 151 (1874). – Bas.: *Thelidium parasiticum* Lönnr., Flora (Regensburg) 41: 632 (1858).

Host: *Rhizocarpon umbilicatum* (thallus)

Europe, France: Rhône-Alpes, dépt. Haute-Savoie, Western Alps, Chablais Alps, les Grandes Platières, hilltop W above Col de Plate, 45°59'39"N / 06°43'40"E, c. 2380 m alt., outcrops of layered limestone and patches of alpine vegetation, on inclined rock faces.

Note 1: *Rhizocarpon umbilicatum* (sub syn. *Diplotomma calcareum*) is the type host of *Phaeospora parasitica*.

Note 2: The long time hyaline ascospores provided with a perispore that becomes brownish with age are diagnostic (compare protologue: "...sporae...hyaline-flavellae..."; ..."episorium senior paullulum fuscenscens."

19. VIII. 2011

leg. J. Hafellner (82930), det. J. Hafellner

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

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

326. *Sphaerellothecium aipoliae* (Vouaux) Nav.-Ros. & Cl.Roux

in Bulletin de la Société Linnéenne de Provence 68: 143 (2017) [sub *Sphaerellothecium aipolium*].
– Bas.: *Didymella aipoliae* Vouaux in Bulletin de la Société Mycologique de France 29: 85 (1913).
– Syn.: *Stigidium pumilum* (Lettau) Matzer & Hafellner, Bibliotheca Lichenologica 37: 115 (1990).

Host: *Physcia caesia* (thallus)

Europe, Austria: Steiermark (Styria), Eastern Alps, Central Alps, Steirisches Randgebirge, Gleinalpe, wooded mountains SW above the village Kirchdorf-Pernegg, Kirchkogel, W of the summit on the ridge towards Trafößberg, 47°21'04"N / 15°20'12"E, c. 740 m alt., GF 8658/2, low outcrops of serpentinite on clearings in open mixed forest rich in *Pinus sylvestris*, on inclined rock faces.

Note 1: The type host of *Sphaerellothecium aipoliae* is *Physcia phaea* (see Navarro-Rosinés & Roux, Bulletin de la Société Linnéenne de Provence 68: 143 f., 2017).

Note 2: The pages with the full description of *Didymella aipoliae* got lost during the printing process. Therefore, the character states leading to *D. aipoliae* in the key to species constitute the protologue.

12. VI. 2020

leg. J. Hafellner (85833), det. J. Hafellner

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

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

327. *Stigmidium leucophlebiae* Cl.Roux & Triebel

in Bulletin de la Société Linnéenne de Provence 45: 495 (1994).

Host: *Peltigera leucophlebia* (thallus)

Europe, Austria: Steiermark (Styria), Eastern Alps, Northern Limestone Alps, Ennstaler Alpen, in the valley Hartelsgraben c. 5 km SW of the village Hieflau, near confluence of the creek coming down over a cascade from the Sulzkar, 47°34' 25"N / 14°42'20"E, c. 1000 m alt., GF 8454/1, mixed forest, on the ground over mossy limestone boulders.

Note 1: *Peltigera leucophlebia* is the type host of *Stigmidium leucophlebiae*.

Note 2: The 14–16 x 4–6 µm large ascospores with metachromatic walls (cresyl blue+ violet) are diagnostic.

14. VII. 2007 leg. J. Hafellner (69040) & L. Muggia, det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

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

in Conspectus Verrucarinarum: 17 (1860). – Bas.: *Sphaeria schaeferi* A.Massal. in Sulla *Lecidea hookeri* di Schaerer nota: 8 "*schaereri*" (1853). – Sel. syn.: *Sphaerella schaeferi* (A. Massal.) Anzi in Atti della Società Italiana di Scienze Naturali 11(4): 180 (1868). – *Pharcidia schaeferi* (A.Massal.) Arnold in Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien 19: 638 (1869). – *Epicymatia schaeferi* (A.Massal.) Sacc. in Sylloge Fungorum 1: 571 (1882). – *Sphaerulina schaeferi* (A.Massal.) Sacc. & D.Sacc. in Sylloge Fungorum 17: 695 (1905).

Host: *Dacampia hookeri* (thallus)

Europe, Austria: Kärnten (Carinthia), Southern Alps, Carnic Alps, Gartnerkofel ca. 8 km SW of the town Hermagor, western side peak, 46°34'20"N / 13°18'15"E, c. 2180 m alt., GF 9445/2, outcrops of Triassic limestone in alpine meadows, on soil.

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

Note 2: *Dacampia hookeri* is lichenicolous itself, usually upon species of the *Solorina bispora* group (see Henssen, Cryptogamic Botany 5: 149–158, 1995), but often, as is the case in the material distributed here, the primary host is not recognizable anymore. A specimen of the primary host lichen *Solorina bispora* Nyl. growing intermingled at the investigated site has been deposited in GZU (Hafellner 75839).

1. IX. 2007 leg. J. Hafellner (75840), det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

329. *Stigmidium solorinarium* (Vain.) D.Hawksw.

in Lichenologist 15(1): 14 (1983). – Bas.: *Pharcidia coniodes* var. *solorinaria* Vain., Acta Societatis pro Fauna et Flora Fennica 49(2): 135 (1921).

Host: *Solorina saccata* (thallus)

Europe, Austria: Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Stubalpe W of the town Köflach, c. 3 km S of the pass Gaberl, ridge between “Altes Almhaus” and the summit of Brandkogel, 47°05'10"N / 14°56'00"E, c. 1620 m alt., GF 8955/2, subalpine pasture over gneiss with lenses of marble, on soil over marble.

Note 1: *Solorina saccata* is the type host of *Stigmidium solorinarium*.

Note 2: The relatively slim, 10–13 x 3–4 µm large ascospores with non-metachromatic walls (cresyl blue–) are diagnostic.

19. V. 1997 leg. J. Hafellner (40676) & J. Miadlikowska, det. J. Hafellner
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

330. *Thelocarpon epibolum* Nyl.

in Flora (Regensburg) 49: 420 (1866).

Host: *Baeomyces rufus* (thallus)

Europe, Czech Republic: Northern Bohemia, distr. Jablonec n. Nisou, Jizerské hory Protected Landscape Area, Smědava, 1.5 km west of settlement, north slope of Jizera Mt., Bílá Smědá brook, 50°50'28.6"N / 15°15'19.2"E, c. 960 m alt., MTB 5157 D01; on granite stones in ditch at the path.

Note 1: The type host of *Thelocarpon epibolum* is *Solorina crocea*.

Note 2: In the distributed specimens *Baeomyces rufus* is additionally infested by *Arthrorhaphis grisea* Th.Fr. of which ascomata in various developmental stages may also be observed here and there.

19. VIII. 2000 leg. J. Kocourková (8231), det. J. Kocourková
distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

331. *Arthrorhaphis citrinella* (Ach.) Poelt

in Bestimmungsschlüssel europäischer Flechten: 126 (1969). – Bas.: *Lichen citrinellus* Ach., Vetenskaps Academiens Nya Handlingar, [ser. 2], 16: 135 (1795). – Syn.: *Lecidea citrinella* (Ach.) Ach., Methodus qua omnes detectos Lichenes, sect. 1: 47 (1803). – *Bacidia citrinella* (Ach.) Branth & Rostr., Botanisk Tidsskrift 3: 235 (1869). – *Mycobacidia citrinella* (Ach.) Dalla Torre & Sarnth., Flechten (Lichenes) von Tirol, Vorarlberg und Liechtenstein: 601 (1902).

Host: *Baeomyces rufus* (thallus)

Europe, Austria: Steiermark (Styria), Eastern Alps, Central Alps, Steirisches Randgebirge, Stubalpe W of the town Köflach, on the mountain Peterer Riegel, along the trail crossing the E slopes ca. 0,5 km S of the Peterer Sattel, 47°02'35"N / 14°50'40"E, c. 1750 m alt., GF 8955/3, dwarf shrub heath in the treeline ecotone, by the trail on acidic soil rich in humus.

Note 1: In the protologue a lichenicolous behaviour is not mentioned. The small piece chosen as lectotype by Obermayer (Nova Hedwigia 58(3-4): 301, 1994) does not include a host lichen (Obermayer, pers. comm.).

Note 2: *A. citrinella* is regularly found on the thallus of *Baeomyces rufus* strains (Obermayer, l. c., p. 303), in the European Alps usually from the montane to the alpine altitudinal belt.

26. X. 2018

leg. J. Hafellner (83855), det. J. Hafellner

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

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

332. *Dacampia hookeri* (Borrer) A.Massal.

in Sulla *Lecidea Hookeri* di Schaerer nota: 7 (1853). – Bas.: *Verrucaria hookeri* Borrer in English Botany Suppl.: tab. 2622 (1831). – Selected syn.: *Catapyrenium hookeri* (Borrer) Flot. [sub "*Catapyrenium*"] in Jahresbericht der Schlesischen Gesellschaft für Vaterländische Cultur 27: 135, note (= reprint Lichenes florae Silesiae: 61, note) (both 1849). – *Lecidea hookeri* (Borrer) Schaer. in Enumeratio critica Lichenum Europaeorum quos ex nova methodo digerit: 102 (1850). – *Leptosphaeria hookeri* (Borrer) Sacc. & P.Syd. in Sylloge Fungorum 19: 1104 (1910). – *Xenosphaeria hookeri* (Borrer) Vain. in Acta Societatis pro Fauna et Flora Fennica 49(2): 141 (1921). – *Pleospora hookeri* (Borrer) Keissl. in Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya 1921, 38: 3 (1928).

Host: *Solorina bispora* (thallus)

Europe, Slovenia: Southern Alps, Julian Alps, massif of Kanin NW above the village Bovec, E slopes of mountain Pestreljenik, 46°21'45"N / 13°28'45"E, c. 2400 m alt., alpine vegetation fragments and rocks of limestone, on soil.

Note 1: Originally the species has not been recognized as being lichenicolous.

Note 2: Juvenile thalli of the host lichen are present on the duplicates stored in GZU and UPS.

Note 3: The biology of the species has been thoroughly investigated by Henssen (Cryptogamic Botany 5: 149–158, 1995).

6. VII. 2003

leg. J. Hafellner (75257) & H. Mayrhofer, det. J. Hafellner

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

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

333. *Endohyalina insularis* (Arnold) Giralt, P.Boom & Elix

in Mycological Progress 9(1): 44 (2010). – Bas.: *Buellia saxatilis* f. *insularis* Arnold, Verhandlungen der Zoologisch-Botanischen Gesellschaft Wien 46: 120 (1896). – Syn.: *Rinodina insularis* (Arnold) Hafellner, Beihefte zur Nova Hedwigia 62: 87 (1979).

Host: *Lecanora bicincta* (thallus)

Europe, France: Rhône-Alpes, dépt. Haute-Savoie, Western Alps, Mont Blanc group, slopes SE above Chamonix, SW of Refuge du Plan de l'Aiguille, 45°54' 18"N / 06°52'56"E, c. 2200 m alt., scree and scattered boulders of siliceous schist in dwarf shrub heath somewhat above the tree line, exposed to the NW, on inclined rock faces.

Note 1: The type host of *Endohyalina insularis* is *Lecanora rupicola* (sub *L. sordida*).

Note 2: The habitually similar lichenicolous fungus *Phacographa glaucomaria* (Nyl.) Hafellner with identical host spectrum has already been distributed (Lichenicolous Biota no. 96).

18. VIII. 2011

leg. J. Hafellner (82818), det. J. Hafellner

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

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

334. *Muellerella pygmaea* (Körb.) D.Hawksw.

in Botaniska Notiser 132: 289 (1979). – Bas.: *Tichothecium pygmaeum* Körb., Denkschrift zur Feier ihres fünfzigjährigen Bestehens der Schlesischen Gesellschaft für Vaterländische Cultur: 236 (1853). – Syn.: *Microthelia pygmaea* (Körb.) Körb., Systema Lichenum Germaniae: 374 (1855). – *Endococcus pygmaeus* (Körb.) Th.Fr., Lichenes arctoi Europae Groenlandiaequae hactenus cogniti: 275 (1860). – *Sychnogonia pygmaea* (Körb.) Trevis., Conspectus Verrucarinarum: 18 (1860).

Host: *Lecidea lapicida* agg. (thallus)

Europe, Norway: Oppland, Lom kommune, Jotunheimen, E above of Spiterstulen, close to northern shore of the lake E below the mountain Skauthö, 61°37'40"N / 08°27'45"E, c. 1610 m alt., boulders of siliceous rocks, on rock.

Note 1: *Lecidea lapicida* is the type host of *Muellerella pygmaea*.

Note 2: *Muellerella pygmaea* is the most common lichenicolous fungus on *Lecidea* s. str. in Holarctic mountains above the tree line, at least in Europe.

26. VIII. 1984

leg. J. Hafellner (83930) & A. Ochsenhofer, det. J. Hafellner

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

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

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

in *Miscellanea Lichenologica*: 43 (1856). – Bas.: *Abrothallus oxysporus* Tul., *Annales des Sciences Naturelles, Botanique*, sér. 3, 17: 116 (1852). – Syn.: *Lecidea oxyspora* (Tul.) Nyl., *Mémoires de la Société Impériale des Sciences Naturelles de Cherbourg* 3: 185 (1855). – *Epithallia oxyspora* (Tul.) Nyl., *Öfversigt af Kongl. Vetenskaps-Akademiens Forhandlingar* 12: 9 (1855). – *Biatora oxyspora* (Tul.) Tuck., *A synopsis of the North American Lichens* 2: 29 (1888). – *Phacopsis oxyspora* (Tul.) Triebel & Rambold, *Nova Hedwigia* 47: 300 (1988). – *Punctelia oxyspora* (Tul.) Divakar, Crespo & Lumbsch in Divakar et al., *Fungal Diversity* 84: 114 (2017).

Host: *Platismatia glauca* (thallus)

Africa, Madeira: Pico dos Estanquinhos at NE edge of the plateau Paul da Serra, uppermost N slopes somewhat below the summit, 32°46'20"N / 17°04'35"W, c. 1600 m alt., *Vaccinium padifolium* shrub among scattered volcanic outcrops and boulders, on twigs of *Vaccinium padifolium*.

Note 1: Two hosts are mentioned in the protologue: *Platismatia glauca* (sub *Cetraria glauca*) and *Parmelia saxatilis*. The host of the lectotype is *Parmelia saxatilis* (designated by Triebel et al., *Bryologist* 98: 78, 1995).

Note 2: A strain of *Abrothallus parmeliarum* has been occasionally observed on the galls induced by *Nesolechia oxyspora* (specimen in GZU). Material of that fungus will be distributed in a separate forthcoming number of *Lichenicolous Biota*.

17. II. 1990 leg. J. Hafellner (84254) & A. Hafellner, det. J. Hafellner
distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

336. *Protoparmelia phaeonesos* Poelt

in Poelt & Leuckert, *Nova Hedwigia* 52: 56 (1991).

Host: *Aspilidea myrinii* (thallus)

Europe, Austria: Steiermark (Styria), Eastern Alps, Central Alps, Seetaler Alpen range, Zirbitzkogel group W above the village Obdach, in the cirque „Linderkar” at the lowermost E slopes of the ridge connecting the mountains Scharfes Eck and Oberer Schlaferkogel, NE below the glacial lake „Lindersee“, 47°04'36"N / 14°34'24"E, c. 1970 m alt., GF 8953/1, relict rock glacier, boulders close to upper edge of the moderately steep front slope, paragneiss, on inclined rock faces.

Note 1: *Aspilidea myrinii* is the type host of *Protoparmelia phaeonesos*.

Note 2: Another lichenicolous taxon on *Aspilidea myrinii*, *Sagediopsis fissurisedens* Hafellner (specimen Hafellner 85244 in GZU), was also present at this locality. But that species preferably infects thalli growing under slightly moister conditions.

08. VII. 2020 leg. J. Hafellner (85230), det. J. Hafellner
distributed to: BR, CANB, GZU, NY, PRM, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

337. *Ramboldia insidiosa* (Th.Fr.) Hafellner

in Hafellner & Türk, Carinthia II 185/105: 624 (1995). – Bas.: *Lecidea insidiosa* Th.Fr. in Botaniska Notiser 1867: 153 (1867).

Host: *Lecanora varia* (thallus, apothecia)

Europe, Austria: Steiermark (Styria), Eastern Alps, Central Alps, Murberge, on the mountain Gstoder c. 13.5 km WNW of the town Murau, on the ridge descending towards the E, N above of Gstoderhütte, 47°08'45"N / 14°00'05"E, c. 1920 m alt., GF 8850/3, dwarf shrub heath with scattered coniferous trees in tree line ecotone, on stumps of *Larix decidua*, on wood.

Note 1: *Lecanora varia* is the type host of *Ramboldia insidiosa*. *Lecanora* "subfusca" is mentioned as further host in the protologue, but this needs confirmation.

Note 2: The biology of the species has been thoroughly investigated by Poelt (Plant Systematics and Evolution 123: 25–34, 1974).

26. VIII. 2000 leg. J. Hafellner (52481) & A. Hafellner, det. J. Hafellner
distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

338. *Rhizocarpon furax* Poelt & V.Wirth

in Poelt, Mitteilungen der Botanischen Staatssammlung München 8: 194 (1970).

Host: *Lecidea lapicida* (thallus)

Europe, Austria: Kärnten (Carinthia), Eastern Alps, Central Alps, Saualpe W above the town Wolfsberg, Kienberg NW above of Ladinger Alm, in the upper part of the ridge descending towards the E, 46°53'00"N / 14°39'05"E, c. 1980 m alt., GF 9153/2, slabs and pebbles of micaschist in patchy alpine vegetation, on small slabs of rock lying on the ground.

Note 1: The type host of *Rhizocarpon furax* was tentatively determined as *Lecidea swartzioidea*.

Note 2: The apothecial discs of *Rhizocarpon furax* are quite regularly provided with umbos of roundish to irregular shape, a character also visible on the type specimen (GZU) but not mentioned in the protologue.

11. IX. 2011 leg. J. Hafellner (79154), det. J. Hafellner
distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

339. *Telogalla olivieri* (Vouaux) Nik.Hoffm. & Hafellner

in Bibliotheca Lichenologica 77: 109 (2000). – Bas.: *Laestadia olivieri* Vouaux in Bulletin de la Société Mycologique de France 28: 216 (1912) nomen novum for *Verrucaria xanthoriae* Wedd. f. *megaspora* H.Olivier in Les principaux parasites de nos Lichens français. Premier supplément: 14 (1907).

Host: *Xanthoria parietina* (thallus)

Europe, Austria: Steiermark (Styria), South-Eastern Alpine Foreland, Graz, NE of the city, Jakob-Dirnböck-Gasse 0.4 km SSW of the pond “Hilmteich”, 47°04’50”N / 15°27’30”E, c. 370 m alt., GF 8958/2, orchard, on branches of a recently felled *Juglans regia*.

Note 1: *Xanthoria parietina* is the type host of *Telogalla olivieri*.

Note 2: *Arthonia parietinaria* is present as admixture on the specimen in GZU and may also be detected on other duplicates. Material of that species has been distributed as Lichenicolous Biota no. 321.

14. II. 2014 leg. W. Obermayer & J. Hafellner (85836), det. J. Hafellner
distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2020: Lichenicolous Biota (Nos 321–340). - Fritschiana 96: 29–45.

340. *Unguiculariopsis lettaui* (Grumann) Coppins

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

Host: *Evernia prunastri* (thallus)

Europe, Austria: Oberösterreich (Upper Austria), Eastern Alps, Northern Limestone Alps, Totes Gebirge, c. 5 km SW of the village Hinterstoder, c. 150 m SSW of the farm Dietlgut, 47°40’02”N / 14°06’15”E, c. 650 m alt., GF 8350, group of deciduous trees, on bark of *Acer pseudoplatanus*.

Note 1: *Evernia prunastri* is the type host of *Unguiculariopsis lettaui*.

Note 2: The genus *Unguiculariopsis* has been monographed by Zhuang (Mycotaxon 32: 1–83, 1988), but most of the about one dozen lichenicolous species have been described or combined into that genus in more recent years.

Note 3: Suija et al. (Fungal Diversity 70: 55–72, 2015) demonstrated in a phylogenetic study that *Skyttea* (e.g., Lichenicolous Biota 17, 265), *Unguiculariopsis*, (!) *Thamnogalla* (Lichenicolous Biota 190) and *Llimoniella* form a multi-branched clade in Helotiales-Encoelioideae.

22. IV. 2019 leg. F. Berger (34063), det. F. Berger
distributed to: BR, CANB, GZU, LE, NY, PRM, UPS

Taxon Synopsis:

| Taxon | Exs. no. |
|---------------------------------------------------------|----------|
| Ascomycota | |
| Arthoniomycetes | |
| <i>Arthonia parietinaria</i> | 321 |
| <i>Paralecanographa grumulosa</i> | 324 |
| Lecanoromycetes (incl. Ostropomycetidae) | |
| <i>Arthrorhaphis citrinella</i> | 331 |
| <i>Endohyalina insularis</i> | 333 |
| <i>Nesolechia oxyspora</i> | 335 |
| <i>Protoparmelia phaeonesos</i> | 336 |
| <i>Ramboldia insidiosa</i> | 337 |
| <i>Rhizocarpon furax</i> | 338 |
| <i>Thelocarpon epibolum</i> | 330 |
| Leotiomycetes | |
| <i>Unguiculariopsis lettaui</i> | 340 |
| Sordariomycetes (incl. Hypocreales) | |
| Eurotiomycetes (incl. Verrucariales and Mycocaliciales) | |
| <i>Muellerella pygmaea</i> | 334 |
| <i>Phaeospora parasitica</i> | 325 |
| <i>Telogalla olivieri</i> | 339 |
| Dothideomycetes | |
| <i>Dacampia hookeri</i> | 332 |
| <i>Sphaerellothecium aipoliae</i> | 326 |
| <i>Stigmidium leucophlebiae</i> | 327 |
| <i>Stigmidium schaeereri</i> | 328 |
| <i>Stigmidium solorinarium</i> | 329 |
| Anamorphic Fungi (unclassified) | |
| Hyphomycetes | |
| Coelomycetes | |
| Basidiomycota | |
| Agaricomycetes | |
| Pucciniomycetes | |
| Tremellomycetes | |
| <i>Biatoropsis usnearum</i> | 322 |
| <i>Heterocephalacria physciacearum</i> | 323 |

Host Index:

| Host taxon | Lichenicolous taxon | Exs. no. |
|--------------------------------------|----------------------------------------------|----------|
| <i>Aspilidea myrinii</i> | <i>Protoparmelia phaeonesos</i> | 336 |
| <i>Baeomyces rufus</i> | <i>Arthrorhaphis citrinella</i> | 331 |
| | <i>Thelocarpon epibolum</i> | 330 |
| <i>Dacampia hookeri</i> | <i>Stigmidium schaeereri</i> | 328 |
| <i>Evernia prunastri</i> | <i>Unguiculariopsis lettaui</i> | 340 |
| <i>Lecanora bicincta</i> | <i>Endohyalina insularis</i> | 333 |
| <i>Lecanora varia</i> | <i>Ramboldia insidiosa</i> | 337 |
| <i>Lecidea lapicida</i> | <i>Muellerella pygmaea</i> | 334 |
| | <i>Rhizocarpon furax</i> | 338 |
| <i>Peltigera leucophlebia</i> | <i>Stigmidium leucophlebiae</i> | 327 |
| <i>Physcia adscendens</i> | <i>Heterocephalacria physciacearum</i> | 323 |
| <i>Physcia caesia</i> | <i>Sphaerellothecium aipoliae</i> | 326 |
| <i>Platismatia glauca</i> | <i>Nesolechia oxyspora</i> | 335 |
| <i>Rhizocarpon umbilicatum</i> | <i>Phaeospora parasitica</i> | 325 |
| <i>Roccella phycopsis</i> | <i>Paralecanographa grumulosa</i> | 324 |
| <i>Solorina bispora</i> | <i>Dacampia hookeri</i> | 332 |
| <i>Solorina saccata</i> | <i>Stigmidium solorinarium</i> | 329 |
| <i>Usnea spec.</i> | <i>Biatoropsis usnearum</i> | 322 |
| <i>Xanthoria parietina</i> | <i>Arthonia parietinaria</i> | 321 |
| | <i>Teloggalla olivieri</i> | 339 |

Geographic Index:

BIOGEOGRAPHIC UNITS (see BRUMMITT 2001)

| Country (or Archipelago) | Lichenicolous taxon | Exs. no. |
|--------------------------------------------------------|----------------------------------------------|-----------------|
| 1. EUROPE | | |
| Austria..... | <i>Arthonia parietinaria</i> | 321 |
| | <i>Arthrorhaphis citrinella</i> | 331 |
| | <i>Heterocephalacria physciacearum</i> | 323 |
| | <i>Protoparmelia phaeonesos</i> | 336 |
| | <i>Ramboldia insidiosa</i> | 337 |
| | <i>Rhizocarpon furax</i> | 338 |
| | <i>Sphaerellothecium aipoliae</i> | 326 |
| | <i>Stigmidium leucophlebiae</i> | 327 |
| | <i>Stigmidium schaeereri</i> | 328 |
| | <i>Stigmidium solorinarium</i> | 329 |
| | <i>Telogalla olivieri</i> | 339 |
| | <i>Unguiculariopsis lettaui</i> | 340 |
| Czech Republic.. | <i>Thelocarpon epibolum</i> | 330 |
| France..... | <i>Endohyalina insularis</i> | 333 |
| | <i>Phaeospora parasitica</i> | 325 |
| Norway..... | <i>Muellerella pygmaea</i> | 334 |
| Slovenia | <i>Dacampia hookeri</i> | 332 |
| Spain..... | <i>Paralecanographa grumulosa</i> | 324 |
| 2. AFRICA | | |
| Canary Islands (belonging to Spain) | | |
| | <i>Biatoropsis usnearum</i> | 322 |
| Madeira (belonging to Portugal) | | |
| | <i>Nesolechia oxyspora</i> | 335 |
| 3. ASIA TEMPERATE | | |
| 4. ASIA TROPICAL | | |
| 5. AUSTRALASIA | | |
| 6. PACIFIC | | |
| 7. NORTHERN AMERICA | | |
| 8. SOUTHERN AMERICA (including CENTRAL AMERICA) | | |
| 9. ANTARCTIC | | |

References

- BRUMMITT R.K. 2001: World geographical scheme for recording plant distributions. Edition 2. Plant Taxonomic Database Standards No. 2, Edition 2, August 2001. - Carnegie Mellon University (Pittsburgh). Published for the International Working Group on Taxonomic Databases For Plant Sciences (TDWG) by the Hunt Institute for Botanical Documentation. XV + 137 pp.
- EHRENDORFER F. & HAMANN U. 1965: Vorschläge zu einer floristischen Kartierung von Mitteleuropa. - *Berichte der Deutschen Botanischen Gesellschaft* 78(1): 35–50.
- HOLMGREN P.K., HOLMGREN N.H. & BARNETT L.C. (editors) 1990: *Index Herbariorum*. Part I. The herbaria of the world. 8th edition. - New York Botanical Garden for the International Association for Plant Taxonomy (Bronx, New York). - *Regnum Vegetabile* 120: 693 pp.

Electronic resources

- Index Herbariorum: A worldwide index of 3,100 herbaria and 12,000 associated staff where a total of 390 million botanical specimens are permanently housed. - URL: <http://sweetgum.nybg.org/science/ih/> [13. XII. 2020].

Bibliographic data of fascicles so far issued

- HAFELLNER J. 2007: Lichenicolous Biota (Nos 1–20). - *Fritschiana* (Graz) 60: 35–49. URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-60/lichenicolous-biota-nos-1-20.pdf>
- HAFELLNER J. 2008: Lichenicolous Biota (Nos 21–60). - *Fritschiana* (Graz) 61: 1–28. URL: <http://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-61/hafellner-2008-lichenicolous-biota-21-to-60.pdf>
- HAFELLNER J. 2009: Lichenicolous Biota (Nos 61–80). - *Fritschiana* (Graz) 65: 33–46. URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-65/lichenicolous-biota-nos-61-80.pdf>
- HAFELLNER J. 2010: Lichenicolous Biota (Nos 81–100). – *Fritschiana* (Graz) 67: 11–26. URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-67/hafellner-2010-lichenicolous-biota-nos-81-100.pdf>
- HAFELLNER J. 2012: Lichenicolous Biota (Nos 101–120). – *Fritschiana* (Graz) 74: 1–17. URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-74/hafellner-2012-lichenicolous-biota-nos-101-120.pdf>
- HAFELLNER J. 2012: Lichenicolous Biota (Nos 121–150). – *Fritschiana* (Graz) 74: 19–41. URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-74/hafellner-2012-lichenicolous-biota-nos-121-150.pdf>
- HAFELLNER J. 2013: Lichenicolous Biota (Nos 151–180). – *Fritschiana* (Graz) 76: 47–68. URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-76/hafellner-2013-lichenicolous-biota-nos-151-180.pdf>
- HAFELLNER J. 2014: Lichenicolous Biota (Nos 181–200). – *Fritschiana* (Graz) 78: 9–24. URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-78/hafellner-2014-lichenicolous-biota-nos-181-200.pdf>

- HAFELLNER J. 2015: Lichenicolous Biota (Nos 201–230). – *Fritschiana (Graz)* 80: 21–41.
URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-80/hafellner-2015-lichenicolous-biota-nos-201-230.pdf>
- HAFELLNER J. 2016: Lichenicolous Biota (Nos 231–250). – *Fritschiana (Graz)* 83: 31–46.
URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-83/hafellner-2016-lichenicolous-biota-nos-231-250.pdf>
- HAFELLNER J. 2017: Lichenicolous Biota (Nos 251–270). – *Fritschiana (Graz)* 86: 25–40.
URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-86/hafellner-2016-lichenicolous-biota-nos-251-270.pdf>
- HAFELLNER J. 2018: Lichenicolous Biota (Nos 271–300). – *Fritschiana (Graz)* 90: 1–22.
URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-90/hafellner-2018-lichenicolous-biota-nos-271-300.pdf>
- HAFELLNER J. 2019: Lichenicolous Biota (Nos 301–320). – *Fritschiana (Graz)* 94: 25–42.
URL: <https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-94/hafellner-2019-lichenicolous-biota-nos-301-320.pdf>

Bisher erschienen - hitherto published

A complete table of contents (including pdf-files) is available under
<https://biologie.uni-graz.at/de/fritschiana/>
and under <http://www.landesmuseum.at/datenbanken/digilit/?serienr=7405>

- MAYRHOFER Helmut, STEŠEVIĆ Danijela, BRUDERMANN Andreas, FÖTSCHL Beate Raffa-
ela & BILOVITZ Peter Othmar 2017: New or otherwise interesting lichenized and
lichenicolous fungi from Montenegro II. - Fritschiana (Graz) 86: 1–30.
- HAFELLNER Josef 2017: Lichenicolous Biota (Nos 251–270). - Fritschiana (Graz) 86:
31–46.
- OBERMAYER Walter 2017: Lichenotheca Graecensis, Fasc. 23 (Nos 441–480). - Frit-
schiana (Graz) 87: 1–13.
- OBERMAYER Walter 2017: Dupla Graecensia Lichenum (2017, numbers 1101–1190). -
Fritschiana (Graz) 87: 15–40.
- HAFELLNER Josef 2017: A new generic record of lichenized ascomycetes for Central
America: *Thelocarpon laureri*. - Fritschiana (Graz) 87: 41–46.
- SCHEUER Christian 2018: Dupla Graecensia Fungorum (2018, Nos. 451–500). - Frit-
schiana (Graz) 88: 1–19.
- SCHEUER Christian 2018: Schedae emendatae for fungal collections published and di-
stributed in Mycotheca Graecensis and Dupla Graecensia Fungorum. - Fritschiana
(Graz) 88: 20–23.
- SCHEUER Christian 2018: Alphabetical index to fungal taxa mentioned in Dupla Grae-
censia Fungorum. - Fritschiana (Graz) 88: 24–30.
- MAYRHOFER Helmut, BILOVITZ Peter Othmar & ROHRER Alexander 2018: Lichenized
and lichenicolous fungi from Croatia kept in the herbarium GZU. - Fritschiana
(Graz) 89: 1–35.
- HAFELLNER Josef 2018: Lichenicolous Biota (Nos 271–300). - Fritschiana (Graz) 90:
1–22.
- SCHEUER Christian 2019: Substrate index to fungal taxa mentioned in Dupla Fungorum,
Dupla Fungorum Supplementum, and Dupla Graecensia Fungorum. - Fritschiana
(Graz) 91: 1–42.
- MAGNES Martin (editor) 2019: 16th Eurasian Grassland Conference (EGC) (29 May – 5
June 2019). Species-rich grasslands in the Palaeartic – a treasure without econo-
mic value? (Program and Abstracts). - Fritschiana (Graz) 92: 1–68.
- OBERMAYER Walter 2019: Lichenotheca Graecensis, Fasc. 25 (Nos 481–500). - Frit-
schiana (Graz) 93: 1–7.
- OBERMAYER Walter 2019: Data synopsis and indexes on the exsiccata 'Lichenotheca
Graecensis' (numbers 1–500) issued between 1994 and 2019. - Fritschiana
(Graz) 93: 9–30.
- HAFELLNER Josef 2019: A reinvestigation of *Microthelia umbilicariae* results in a
contribution to the species diversity in *Endococcus*. - Fritschiana (Graz) 94: 1– 23.
- HAFELLNER Josef 2019: Lichenicolous Biota (Nos 301–320). - Fritschiana (Graz) 94:
25–42.
- ROTTENSTEINER Walter, ZERNIG Kurt, JAKELY Dietmar & SCHEUER Christian 2020: Bei-
träge zur Flora von Istrien VI: Eine kommentierte Prüfliste der Gefäßpflanzen als
Grundlage für eine „Flora und Vegetation der Insel Krk (Veglia/Vögl's) in der
Quarner Bucht“. - Fritschiana (Graz) 95: 1–75.

ISSN 1024-0306