

Dupla Graecensia Lichenum (2017, numbers 1101–1190)

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OBERMAYER W. 2017: Dupla Graecensia Lichenum (2017, numbers 1101–1190). - Fritschiana (Graz) 87: 15–40. - ISSN 1024-0306.

Abstract: The exsiccata 'Dupla Graecensia Lichenum (2017, numbers 1101–1190)' comprises 90 collections (575 specimens) of lichen duplicates (including the lichenicolous fungus *Arthonia parietinaria*) from the following 14 countries: Albania (district Lushnë), Armenia (province Syunik'), Austria (states Carinthia, Salzburg, Styria, Tirol, and Upper Austria), Canada (province British Columbia), Croatia (county Istria), Finland (region Uusimaa), France (region Auvergne-Rhône-Alpes), Germany (states Baden-Württemberg, Bavaria, and Schleswig-Holstein), Greece (Attica peninsula and isles of Corfu and Crete), Macedonia, Montenegro, Slovenia, Switzerland (cantons of Bern and Ticino), and U.S.A. (states Alaska and North Carolina). TLC-investigations were carried out for 21 lichenized taxa.

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Introduction

The dwarf-exsiccata 'Dupla Graecensia Lichenum' is issued by the herbarium of the Institute for Plant Sciences of the University of 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 <http://www-classic.uni-graz.ac.at/walter.obermayer/dupl-graec.htm>. A downloadable PDF-file can be found under https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana_87/Fritschiana_87-87/dupla-graecensia-lichenum-2017.pdf. Label texts originally drafted in a local language have been translated into English by the author. The names of authors of lichenized fungi are given in a NOT abbreviated style and are (mostly) taken from 'The International Plant Names Index' (IPNI) (see <http://www.ipni.org/ipni/plantnamesearchpage.do>). The geographical classification system of the Europaean Alps (using the terms 'Western Alps' and 'Eastern Alps') follows a classification used by MARAZZI S. 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 Josef HAFELLNER, Matthias KALTENBÖCK, Helmut MAYRHOFER, Florian MÜHLBACHER, Josef POELT (†), Toby SPRIBILLE, Roman TÜRK, Ernst VITEK, and Helmut WITTMANN. The following individuals are kindly acknowledged for additional determination works: Peter BILOVITZ (*Caloplaca*), Josef HAFELLNER (*Bacidina*), Helmut MAYRHOFER (*Anaptychia*, *Rinodina*), Philipp RESL (*Trapelia*), and Einar TIMDAL (*Psora*).

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1101. **Acrocordia gemmata** (Acharius) Abramo Massalongo

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, 4 km west of the centre of Weiz, gorge of the river Raab ('Raabklamm'), 650 m northeast of the village Gutenberg, 150 m north-northwest of the castle 'Schloss Gutenberg', 47°12'45-50"N, 015°34'00"E, (grid number 8759/3), elevation 500-505 m, gorge area along the river (mixed forest), on bark of *Ulmus glabra*. – 5 November 2014, collected and determined by Walter Obermayer (13281) [excursion together with Josef Hafellner and André Aptroot].

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1102. **Anaptychia setifera** (Mereschkowsky) Räsänen

ARMENIA, Syunik' Province, 17.5 km south-southeast of Kapan, along the road from Kapan to Meghri, 1.4 km east of Tsav, 39°03'14"N, 046°28'23"E, elevation 1050 m, *Quercus* forest (with *Paliurus*), on *Crataegus* sp. – 16 June 2016, collected by Ernst Vitek, Marine Oganessian & George Fayvush, determined by Helmut Mayrhofer (2017).

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1103. **Arthonia parietinaria** Hafellner & Antonia Fleischhacker [lichenicolous fungus, parasitic on *Xanthoria parietina*]

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Weststeirisches Riedelland, 5.5 km west of the centre of Graz, 280 m southwest of the southern shore of the lake Thalersee, 47°04'01"N, 015°21'58"E, (grid number 8958/1), elevation 440 m, edge of a forest, on twigs of *Salix fragilis* (fallen down from treetop). – 8 April 2017, collected and determined by Walter Obermayer (13865).

Note: The anamorph of *Arthonia parietinaria* can be present additionally (e.g. in GZU).

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1104. **Bacidina sulphurella** (Sampaio) Markus Hauck & Volkmar Wirth

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, 760 m southwest of the centre of Kumberg, forest area between Rabnitz and Wollsdorf, 47°09'13"N, 015°31'47"E, (grid number 8859/1), elevation 482 m, inside a forest, on stem bark of *Alnus glutinosa*. – 13 September 2016, collected by Walter Obermayer (13734), determined by Josef Hafellner (2016).

Note: All issued specimens with apothecia.

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1105. **Baeomyces rufus** (Hudson) Rebentisch

AUSTRIA, Steiermark (=Styria), Eastern Alps, Noric Alps, 4.4 km southwest of Neumarkt, Grebenzen, 1.1 km north-northwest of Pöllau, near the road from Pöllau to Zeutschach, 200 m west-northwest of 'Im Toscha', base area of Feichterkogel, 47°02'52"N, 014°22'46"E, (grid number 8952/3), elevation 1195 m, mixed forest (with *Picea abies* and *Larix decidua*) with phyllitic outcrops, on bare earth, bryophytes, and decayed bark. – 17 September 2016, collected and determined by Walter Obermayer (13672).

Note: Specimens in GZU and UPS are infected with the lichenicolous fungus of the *Pyrenidium actinellum* aggregate.

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1106. **Baeomyces rufus** (Hudson) Rebentisch

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, Schöckl, 2.7 km north of Sankt Radegund, 100 m southwest of Schöcklkreuz, 47°12'15"N, 015°28'58"E, (grid number 8758/4), elevation 1140 m, in the shady area of a mixed forest, on garnet mica slate (also on strongly decayed wood and plant remnants). – 15 January 2014, collected and determined by Walter Obermayer (13903).

Note: TLC (Obermayer554-07; specimen in GZU tested): Stictic acid (maj.), constictic acid (min.), gyrophoric acid (min., in apothecia).

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1107. **Blastenia herbidella** (Hue) Servít

[recently used synonym: *Caloplaca herbidella*]

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Saualpe, 13.5 km west of Wolfsberg, east-facing slopes of Speikkogel, just above 'Pöllinger Hütte', 46°49'25"N, 014°39'55"E, (grid number 9153/4), elevation 1720 m, shrubs (*Alnus alnobetula*) and single trees (old *Sorbus aucuparia*), on bark of *Sorbus aucuparia* (near stem base). – 1 May 2010, collected and determined by Josef Hafellner (75717).

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1108. **Bryoplaca sinapisperma** (Lamarck) Søchting, Frödén & Arup

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northwestern part of Kemetgebirge, 11 km northwest of the centre of Gröbming, 2 km southwest of the summit of Hierzberg, Plankenalm (southern part of the settlement), 47°29'18"N, 013°46'16"E, (grid number 8548/2), elevation 1720 m, subalpine pastures above limestone, on ground. – 2 October 2015, collected by Walter Obermayer (13615) & Florian Mühlbacher, determined by Walter Obermayer.

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1109. **Buellia arborea** Coppins & Tønsberg

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of Sankt Radegund, 70 m east of Schöcklkopf, 47°12'10"N, 015°28'41"E, (grid number 8758/4), elevation 1280 m, southeast exposed steep slopes with calcareous outcrops, on standing, debarked snag. – 15 November 2015, collected and determined by Walter Obermayer (13610).

Note: TLC (Obermayer517-02): Atranorin (maj.), placodiolic acid (maj.). - Specimens partly intermixed with *Calicium tigillare* and *Pycnora sorophora*.

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1110. **Buellia griseovirens** (Turner & Borrer ex Smith) Almborn

AUSTRIA, Salzburg, Flachgau region (=Salzburg-Umgebung District), 12 km northeast of the centre of Salzburg, Seekirchen am Wallersee, Kapellerweg, 47°54'02"N, 013°08'16"E, (grid number 8044/4), elevation 510 m, on stem bark of *Betula pendula*. – 1 January 2017, collected and determined by Roman Türk (57397).

Note: TLC (Obermayer557/03; specimen in GZU tested): Atranorin, [no chloroatranorin], norstictic acid (min.), traces of (terpenoid-)unknowns.

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1111. **Calicium pinicola** (Tibell) Maria Prieto & Wedin

[recently used synonym: *Cyphelium pinicola*]

MACEDONIA (FYROM), Southwest Macedonia, Baba Mountain, northern side of Pelister, 1.7 km north of the summit, hiking path to the summit, 41°01'06.3"N, 021°11'08.3"E, elevation 2050 m, at the forest line, on dead wood of *Pinus peuce*. – 26 July 2017, collected and determined by Matthias Kaltenböck (106).

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1112. **Calicium viride** Persoon

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, High Tauern, Schober Group, 12.8 km north-east of Lienz, 4.7 km west-northwest of Mörtshach, valley of the brook Wangenitz, 46°55'57"N, 012°51'10"E, (grid number 9043/3), elevation 1500 m, forest with *Picea abies*, on stem bark of *Picea abies*. – 24 September 2016, collected and determined by Roman Türk (56697).

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1113. **Caloplaca cerina** [in a broad sense]

MONTENEGRO, Bjelasica, National Park Biogradska Gora, Katun Dolovi east above Biogradsko jezero, along the trail to the summit of the mountain Bendovac, 42°53'57"N, 019°37'34"E, elevation 1690 m, pastures with siliceous and calcareous rock outcrops, shrubs and scattered *Abies alba* stands, on twigs of *Ribes* spec. – 12 June 2009, collected by Helmut Mayrhofer (18467), determined by Peter Bilovitz.

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1114. **Candelaria concolor** (Dickson) Arnold

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, 760 m southwest of the centre of Kumberg, forest area between Rabnitz and Wollsdorf, 47°09'13"N, 015°31'47"E, (grid number 8859/1), elevation 482 m, edge of a forest, on stem of *Prunus avium* (lying on the ground). – 13 September 2016, collected and determined by Walter Obermayer (13733b).

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1115. **Cetrelia monachorum** (Zahlbruckner) William Louis Culberson and Chicita Frances Culberson

AUSTRIA, Steiermark (=Styria), Eastern Alps, Totes Gebirge, 8.3 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°38'27"N, 013°54'38"E, (grid number 8349/3), elevation 720 m, forest area (with *Acer pseudoplatanus*, *Abies alba*, *Picea abies*, and *Fraxinus excelsior*) along the brook, on bark of *Acer pseudoplatanus*. – 22 September 2013, collected and determined by Walter Obermayer (13015).

Note: TLC (Obermayer501-14,15 and 502-07->18; all specimens tested two or three times): Atranorin, imbricarinic acid (maj.), perlatic acid (min.). Specimen in GZU additionally contains thalli of *Cetrelia olivetorum* (atranorin, olivetoric acid). - All issued specimens with apothecia.

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1116. **Chaenotheca ferruginea** (Turner ex Smith) Migula

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, 8.4 km east of the centre of Graz, 2.7 km west of Laßnitzhöhe, Äußere Ragnitz, rearmost part of the valley, 47°04'55"N, 015°32'45"E, (grid number 8959/1), elevation 466 m, edge of a meadow, on timber planks of an old hay barn (northeast-exposed, vertical faces). – 7 June 2016, collected and determined by Walter Obermayer (13703).

Note: The specimens show very unusual/strange shape of their stalked fruiting bodies: Some apothecia are almost unstalked, some show a very short and very pale coloured stalk, and some black stalks are split into (up to) 5 branches.

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1117. **Chaenotheca ferruginea** (Turner ex Smith) Migula

GERMANY, Bayern (=Bavaria), Eastern Alps, Salzburger Nordalpen, Berchtesgadener Alpen, 2.6 km east of Berchtesgaden, Obersalzberg, Lindenweg west-southwest of Platterhof, 47°37'46"N, 013°02'11"E, (grid number 8344/3), elevation 960 m, on bark of *Abies alba*. – 28 July 1997, collected by Roman Türk (25116) & Helmut Wunder, determined by Roman Türk.

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1118. **Chaenotheca furfuracea** (Linnaeus) Tibell

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, 5 km east of the centre of Deutschfreistritz, 1.25 km south of the centre of Semriach, 47°12'23"N, 015°24'03"E, (grid number 8758/3), elevation 700 m, along a forestry road in a mixed forest, on small roots of coniferous trees (hanging down from the uppermost edge of the cut slope). – 6 November 2017, collected and determined by Walter Obermayer (13922).

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1119. **Cladonia amaurocraea** (Flörke) Schaerer

SWITZERLAND, canton of Bern, Western Alps, Urner Alps, 20 km northeast of Meiringen, area of Steigletscher, below Sustenpass, Chüöbärgli, southwest above Steisee, slopes exposed to the north, 46°43'10"N, 008°25'45"E, elevation 2100 m, outcrops and boulders of siliceous rocks (granite, with low content of calcium) in alpine vegetation, on plant remnants. – 26 August 2006, collected and determined by Josef Hafellner (75842).

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1120. **Cladonia convoluta** (Lamarck) Anders

ALBANIA, Central Albania, Lushnë District, at the coast of the Adriatic Sea, west of the town Lushnë, Laguna e Karavastasë, southwest of the village Divjakë, 40°59'00"N, 019°29'00"E, elevation 5 m, coastal pine forest with evergreen understorey (above sand dunes), 1 km behind the shore, on soil (in depressions between the dunes). – 21 August 2007, collected and determined by Josef Hafellner (80827) [excursion together with Mauro Tretiach, Lucia Muggia, Massimo Piccotto, and Janí Marka].

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1121. **Cladonia evansii** Abbayes

U.S.A., North Carolina, Carteret County, 7 km east of the centre of Beaufort, Harkers Island, 34°42'22"N, 076°34'40"W, elevation 1–2 m, *Quercus virginiana* stand, on quartz sand. – 3 March 1970, collected and determined by Josef Poelt & William Louis Culberson.

Note: The original label contains Poelt's annotation: "...with *Cladonia leporina*, *Cl. subtenuis*, *Cl. caroliniana*, etc. ...".

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1122. **Cladonia fimbriata** (Linnaeus) Fries

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, Schöckl, 3 km west-northwest of the centre of Sankt Radegund, westernmost part of Schöneben, 250 m northeast of 'Johann-Waller-Hütte', 47°11'27"N, 015°27'09"E, (grid number 8858/2), elevation 1180 m, along a forestry road (on south-southwest exposed slopes with calcareous outcrops, on ground and on rotten wood. – 7 February 2016, collected and determined by Walter Obermayer (13633).

Note: TLC (Obermayer554-09,10; specimen in GZU tested): Fumarprotocetraric acid (maj.), protocetraric acid (tr.).

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1123. **Cladonia furcata** (Hudson) Schrader

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Stubalpe, 18.5 km west of the centre of Köflach, 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 (13831).

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1124. Cladonia rangiferina (Linnaeus) Weber ex Friedrich
Heinrich Wiggers

SLOVENIA, Eastern Alps, Styrian Fringe Mountains, Kobansko, [Koralpe], mountain top ("Jantschkifels") 7.6 km northeast above Dravograd (=Unterdrauburg), above the chapel Sveti Urban, uppermost slopes exposed to the south below the summit, near the border to Austria, 46°39'08"N, 015°03'49"E, (grid number 9356/1), elevation 1360 m, scattered boulders of garnet schist on clearings in a spruce forest, on soil amongst *Vaccinium myrtillus*. – 20 July 2008, collected and determined by Josef Hafellner (71515).

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1125. Cladonia rangiformis Hoffmann

GERMANY, Schleswig-Holstein, Nordfriesland, North Frisian Islands, Amrum, Wittdün, along the road 'Inselstraße', near the busstop 'Campingplatz Amrum', 54°37'49"N, 008°22'07"E, elevation 10 m, on dune sand (near the road). – 6 October 2017, collected and determined by Roman Türk (58401).

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1126. Evernia prunastri (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Noric Alps, 4.4 km southwest of Neumarkt, Grebenzen, 0.9 km west-northwest of Pöllau, along the road from Pöllau to Zeutschach, 'Im Toscha', 47°02'45"N, 014°23'00"E, (grid number 8952/3), elevation 1175 m, small bog, on twigs of fallen *Picea abies* (tree top area). – 17 September 2016, collected and determined by Walter Obermayer (13736).

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1127. Flavocetraria nivalis (Linnaeus) Kärnefelt & Arne Thell

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Stubalpe, 18.5 km west of the centre of Köflach, 2.6 km southwest of Hirscheeggertal (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 (13832).

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

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1128. **Flavoparmelia caperata** (Linnaeus) Hale

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, 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 loose mixed forest, on east-exposed inclined rock faces. – 23 August 2009, collected and determined by Josef Hafellner (73969).

Note: Specimen in GZU with apothecia.

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1129. **Flavoparmelia caperata** (Linnaeus) Hale

GREECE, Ionian Islands, Kérkyra Island (=Corfu Island), 15 km (as the crow flies) south of the centre of Kérkyra City, Moraitika, 39°29'15"N, 019°55'38"E, elevation 5 m, unutilized old olive grove (70 m away from the beach), on stem bark of *Olea europaea*. – 17 August 2015, collected and determined by Walter Obermayer (13645).

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1130. **Fuscopannaria praetermissa** (Nylander) Per Magnus Jørgensen

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, Totes Gebirge, 5.4 km north-northeast of Liezen, Hochangern, near a striking deep hollow between Torkoppen and Lärchkogel (along the path to Lärchkogel), 47°36'55"N, 014°15'10"E, (grid number 8351/4), elevation 1700 m, forest with dominating *Larix decidua* (intermixed with some *Pinus cembra*) with scattered outcrops and boulders (Triassic limestone), on earth (in rock crevices). – 10 August 2010, collected by Josef Hafellner (78768) & Lucia Muggia, determined by Josef Hafellner.

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1131. **Hyperphyscia adglutinata** (Flörke) Helmut Mayrhofer & Poelt

AUSTRIA, Oberösterreich (=Upper Austria), Northern Alpine Foreland, local area of Kremsmünster, 'Am Tötenhengst', 48°03'15"N, 014°07'42"E, (grid number 7950/2), elevation 385 m, on bark of *Robinia pseudacacia*. – 28 February 1998, collected and determined by Roman Türk (24928).

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1132. **Hypogymnia physodes** (Linnaeus) Nylander

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Stubalpe, 18.5 km west of the centre of Köflach, 2.6 km southwest of Hirscheeggensattel (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 (13816).

Note: TLC (Obermayer-543-05; specimen in GZU tested): Atranorin (maj.), chloroatranorin (min.), physodic acid (maj.), oxyphysodic acid (maj.), physodalic acid (maj.), protocetraric acid (min.).

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1133. **Hypogymnia recurva** Goward, Curtis Randall Björk & Hollinger

CANADA, British Columbia, Central Interior, Upper Clearwater Valley, Trophy Mountains, Third Canyon, above Upper Clearwater Road, 51°47.226'N, 120°00.558'W, elevation 827 m, mixed montane conifer forest, on *Pseudotsuga menziesii*. – 20 October 2009, collected and determined by Toby Spribille (32368).

Note: TLC (Obermayer497-03,06,07,08,10,11; all specimens tested): Atranorin, physodic acid, vittatolic acid - Specimens partly intermixed with *Hypogymnia wilfiana* (atranorin, physodic acid, appinatic acid syndrome).

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1134. **Lasallia pustulata** (Linnaeus) Mérat

FINLAND, Uusimaa region, Helsinki, Kuninkaansaari (=Kungsholmen) Island, southwestern shore, 60°08'01"N, 025°00'51"E, elevation 5 m, on granite boulders. – 3 August 2016, collected and determined by Helmut Mayrhofer (21619).

Note: All specimens with apothecia.

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1135. **Lecania cyrtella** (Acharius) Theodor Fries

AUSTRIA, Steiermark (=Styria), Eastern Alps, Noric Alps, Seetal Alps, 8.2 km southeast of the center of Neumarkt, road from Mühlen to Tonnerhütte, 1.1 km ENE of Jakobsberg, 47°02'43"N, 014°31'33"E, (grid number 8953/3), elevation 1320 m, on branches and twigs of *Sambucus racemosa*. – 25 July 2004, collected and determined by Helmut Mayrhofer (15813).

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1136. **Lecania naegelii** (Hepp) Diederich & van den Boom

AUSTRIA, Oberösterreich (=Upper Austria), Bohemian Massif, Austrian Gneiss and Granite Plateau, 11.7 km north of the centre of Freistadt, Leopoldschlag-Markt, near the bank of the river Maltsh, 48°37'01"N, 014°29'51"E, (grid number 7352/4), elevation 620 m, on bark of *Salix fragilis*. – 1 July 2017, collected and determined by Roman Türk (58279).

Note: All specimens are associated with the bark alga *Trentepohlia* (cf.) *umbrina*, which is bright orange-red in fresh condition but will soon discolour at herbarium storage.

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1137. **Lecanora argentata** (Acharius) Malme

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, 5.5 km east-northeast of the centre of Friesach, northeast facing slopes of 'Hohe Rannach', Rannachgraben (ravine like valley), 880 m northwest of Buchhofer, 47°10'51"N, 015°24'24"E, (grid number 8858/1), elevation 590 m, forest with *Acer pseudoplatanus* and *Fagus sylvatica*, on bark of young *Acer pseudoplatanus*. – 28 December 2016, collected and determined by Walter Obermayer (13750).

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1138. **Lecanora argentata** (Acharius) Malme

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, Raabklamm (orographically right side of the river Raab), 4.3 km west-southwest of Weiz, 0.2 km northwest of a water power station, near a dilapidated saw mill, 47°12'30"N, 015°34'15"E, (grid number 8759/3), elevation 470 m, riparian forest, on stem bark of *Fraxinus excelsior*. – 26 October 2009, collected and determined by Josef Hafellner (74630).

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1139. **Lecanora argopholis** (Acharius) Acharius

SWITZERLAND, canton of Ticino (=Tessin), Western Alps, Lepontine Alps, Adula Alps, 6 km northeast of Olivone, west slopes of Torno above Lago di Luzzone, just above Alpe Garzott, 46°34'20"N, 008°59'25"E, elevation 1640 m, large boulders of mafic metamorphite in a pasture, on inclined rock faces. – 22 August 2012, collected by Josef Hafellner (81759) & Lucia Muggia, determined by Josef Hafellner.

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1140. **Lecanora bicincta** Ramond

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Styrian Fringe Mountains, Koralpe, 15.2 km west of the centre of Deutschlandsberg, north above the saddle Weinebene, just west below the summit area of Handalm, 46°50'40"N, 015°01'05"E, (grid number 9156/3), elevation 1750-1800 m, cliffs and boulders of gneissic rocks short above the tree line on a slope exposed to the southwest, on strongly inclined rock faces and overhangs. – 21 March 2012, collected and determined by Walter Obermayer (13943) [excursion together with Brian Coppins, Josef Hafellner, and Helmut Mayrhofer].

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1141. **Lecanora cavicola** Creveld

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Saualpe, 16 km west-northwest of the centre of Wolfsberg, Gertrusk, west-facing slopes just below the summit, 46°51'55"N, 014°38'35"E, (grid number 9153/2), elevation 2040 m, eclogite boulders in dwarfshrub heathland and alpine grassland, on overhanging faces of eclogitic boulders. – 9 August 2009, collected by Josef Hafellner (75025) & Angela Hafellner, determined by Josef Hafellner.

Note: Eight years after collecting and drying, the (typical) slightly pinkish 'blooming' of the alectorialic acid on the surface of the lichen appears on each specimen.

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1142. **Lecanora chlarotera** Nylander

CROATIA, Istria County, Vrsar, 200 m north of the harbour, 100 m east of the bathing beach, path to a vantage point on a small rocky hill, 45°09'08"N, 013°35'58"E, elevation 11 m, on twigs of *Pistacia terebinthus*. – 23 September 2016, collected and determined by Walter Obermayer (13898).

Note: All specimens associated with a species of the *Lecidella elaeochroma* aggregate.

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1143. **Lecidella elaeochroma** [aggregate]

CROATIA, Istria County, Vrsar, 200 m north of the harbour, 100 m east of the bathing beach, path to a vantage point on a small rocky hill, 45°09'08"N, 013°35'58"E, elevation 11 m, on twigs of *Pistacia terebinthus*. – 23 September 2016, collected and determined by Walter Obermayer (13899).

Note: Hymenium without oil droplets (not inspersed). Thalli mostly greyish, rarely with a yellowish tinge (e.g. one thallus in the GZU-specimen), UV+ orange-red. Apothecia (originally black) are often bleached out. All specimens associated with *Lecanora chlarotera*.

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1144. **Lecidella euphorea** (Flörke) Hertel

[belongs to the *Lecidella elaeochroma* aggregate]

AUSTRIA, Tirol, Eastern Alps, border area between Northern Tyrol Limestone Alps and Bavarian Alps, 12.5 km west of the centre of Kufstein, 5 km west-southwest of Hinterthiersee, 800 m north of Riedenberg, 47°33'53"N, 012°00'21"E, (grid number 8438/1), elevation 995 m, on decayed wood of *Picea abies*. – 9 July 2016, collected and determined by Roman Türk (57829).

Note: In some specimens, the thallus is almost entirely endoxylic (but visible under UV-light). The hymenium is not inspersed.

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1145. **Lepra corallina** (Linnaeus) Hafellner

[recently used synonym: *Pertusaria corallina*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Stubalpe, 18.2 km west of the centre of Köflach, 2.4 km southwest of Hirscheeggertal (Salzstiegelhaus), summit area of Speikkogel, 47°03'26"N, 014°50'30"E, (grid number 8955/1), elevation 1980 m, windblown ridge, on plant remnants of vascular plants and bryophytes (e.g. *Polypodium piliferum*). – 21 Oktober 2017, collected and determined by Walter Obermayer (13926).

Note: TLC (Obermayer556/15, specimen in GZU tested): Thamnolic acid (maj.), two unknowns. The specimen in GZU is intermixed with *Varicellaria rhodocarpa*. This unusual substrate of *Lepra corallina* might not have been reported yet. Saxicolous *Lepra corallina* has been observed on boulders nearby.

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1146. **Lepraria finkii** (Bouly de Lesdain) Richard Harris

[recently used synonym: *Lepraria lobificans*]

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, urban area of Graz, Schubertstraße, 150 m southwest of the pond Hilmteich, 47°04'57"N, 015°27'31"E, (grid number 8958/2), elevation 374 m, avenue trees, on bark of *Aesculus hippocastanum* (0.5 to 1.2 m stem height). – 14 March 2014, collected and determined by Walter Obermayer (13125).

Note: TLC (Obermayer502-01,03->05; all specimens tested): Stictic acid (min.), constictic acid (maj.), atranorin (maj.), zeorin (maj.). *Lepraria vouauxii* was growing on the same tree and might be intermixed.

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1147. **Lepraria neglecta** (Nylander) Erichsen

AUSTRIA, Steiermark (=Styria), Eastern Alps, Lower Tauern, Wölz Tauern, 17.3 km south-southwest of the centre of Liezen, Planneralpe, path from Plannersee to Plannerknot, 47°24'45"N, 014°13'00"E, (grid number 8551/3), elevation 1880 m, low boulders (garnet mica schist with quartzitic layers) in alpine grassland, on small moss cushions. – 2 July 2013, collected and determined by Josef Hafellner (82395).

Note: TLC (Obermayer; from all specimens at least two thalli were tested): Alectorialic acid syndrome (maj.), angardianic acid (maj.). Thalli of the chemotype II of *Lepraria caesioalba* (atranorin, angardianic acid, fumarprotocetraric acid syndrome) are marked on the cards. All bigger thalli were 'spot-tested' with a 'KC-mixture'. In order to get better colour results, 'K' and 'C' should be mixed before applying. *Lepraria neglecta* reacts 'KC-mixture' reddish, *Lepraria caesioalba* II reacts 'KC-mixture' pale yellowish-orange.

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1148. **Loxospora elatina** (Acharius) Abramo Massalongo

GERMANY, Baden-Württemberg, Main-Tauber district, 32 km southwest of Würzburg, 8 km south of the centre of Tauberbischofsheim, 1.5 km southwest of the center of Lauda-Königshofen, 'Becksteiner Buckel', 49°33'17"N, 009°41'39"E, (grid number 6424), elevation 325 m, old *Quercus* forest, on bark of *Abies alba*. – 6 May 2016, collected and determined by Roman Türk (57323).

Note: TLC (Obermayer557/01,557/02; specimen in GZU tested): While greenish parts of the thalli contain both thamnolic and elatinic acids in equal amounts, the yellowish ('bleached') parts contain thamnolic acid and only traces of elatinic acid. Three strong terpenoids might come from the bark.

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1149. **Melanelixia glabra** (Schaerer) Oscar Blanco [and 5 coauthors]

SLOVENIA, [Primorska], Goriška, Eastern Alps, Julian Alps, Koritnica valley, 8.3 km north-northeast of Bovec, near the village Log pod Mangartom, northeast of Spodnji Log, 46°24'10"N, 013°36'10"E, elevation 640 m, solitary trees (at the roadside), on bark of *Tilia cordata*. – 2 July 2003, collected and determined by Helmut Mayrhofer (20344).

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1150. **Melanelixia glabratula** (Lamy) Sandler & Arup

AUSTRIA, Oberösterreich (=Upper Austria), Eastern Alps, Upper Austrian Prealps, Gmunden District, eastern shore of the lake Laudachsee, 47°52'42"N, 013°51'23"E, (grid number 8149/1), elevation 900 m, mixed forest, on bark of *Fagus sylvatica*. – 7 June 2006, collected by Roman Türk (39586) & Andrea Kienesberger, determined by Roman Türk.

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1151. **Menegazzia terebrata** (Hoffmann) Abramo Massalongo

AUSTRIA, Steiermark (=Styria), Eastern Alps, Ennstal Alps, Gesäuseberge east of Admont, trail from Johnsbach to Hess-Hütte, shortly west of 'Untere Koderalm', 47°32'40"N, 014°37'35"E, (grid number 8453/4), elevation 1250 m, mixed forest, on bark of *Fagus sylvatica*. – 25 September 2005, collected and determined by Josef Hafellner (67503).

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1152. **Ochrolechia arborea** (Kreyer) Almborn

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, mountain area 6.6 km north-northeast of Passail, 1.2 km south of Sommeralm, ridge area just north of the summit Bründlkogel, 47°20'05"N, 015°33'15"E, (grid number 8659/3), elevation 1430 m, edge of a forest, on bark of *Sorbus aucuparia*. – 6 November 2010, collected by Josef Hafellner (76638) & Lucia Muggia, determined by Josef Hafellner.

Note: All specimens show the typical strong orange fluorescence (due to lichexanthone) under UV-light.

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1153. **Opegrapha zonata** Körber

[recently used synonym: *Enterographa zonata*]

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Styrian Fringe Mountains, Koralpe, 15.2 km west of the centre of Deutschlandsberg, north above the saddle Weinebene, just west below the summit area of Handalm, 46°50'40"N, 015°01'05"E, (grid number 9156/3), elevation 1750-1800 m, cliffs and boulders of gneissic rocks just above the tree line (slope exposed to the southwest), on strongly inclined rock faces and overhangs. – 21 March 2012, collected and determined by Walter Obermayer (13944) [excursion together with Brian Coppins, Josef Hafellner, and Helmut Mayrhofer].

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1154. *Parmelia saxatilis* [aggregate]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Lower Tauern, Seckau Tauern, 18.2 km northwest of the centre of Knittelfeld, 2.1 km east of the lake Ingeringsee, path along the valley 'Brandstättergraben' to 'Brandstättertörl', 47°20'56"N, 014°41'18"E, (grid number 8654/3), elevation 1640 m, forest with *Picea abies* and *Larix decidua*, on stem bark of *Picea abies* (exposed to the north). – 9 September 2016, collected and determined by Walter Obermayer (13711).

Note: The issued specimens come from one tree with a collection area of c. 70 x 20 cm (exposed to the northwest). Although the inhabited bark area looked quite uniform in the field, several chemo-/morpho-/genotypes were present. TLC-investigations revealed the following (main) combination of lichen substances: 1) Atranorin (major, minor or traces), chloroatranorin (major, minor or traces), salazinic acid (major), consalazinic acid (major), galbinic acid (minor or traces), no fatty acids [!]. 2) Atranorin (maj.), chloroatranorin (maj.), salazinic acid (min.), consalazinic acid (maj.), galbinic acid (minor, traces or absent), lobaric acid (min.), two to four detectable fatty acids (the lower [double-]spot (in B') represents protolichesterinic/nephrosterinic acids, the upper [double-]spot (in B') represents lichesterinic/isonephrosterinic acids. In the Eastern Alps, the species complex of *Parmelia saxatilis* (which includes *P. ernstiae*, *P. serrana*, and probably further undescribed taxa) needs further studies. Specimen in GZU with apothecia..

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1155. *Parmelia saxatilis* [in a very broad sense]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Noric Alps, Seetal Alps, 10 km west-northwest of Obdach, road from Schmelz to Winterleitenhütte, 47°05'45"N, 014°34'40"E, (grid number 8953/1), elevation 1650 m, close to a forestry road in a high montane forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on strongly inclined faces of a siliceous boulder (very shady conditions). – 2 November 2017, collected and determined by Walter Obermayer (13916).

Note: TLC (Obermayer556/02; specimen in GZU tested): Atranorin (min.), chloroatranorin (min.), salazinic acid (maj.), consalazinic acid (maj.), galbinic acid (tr.), lobaric acid (min.), thamnolic acid (min.; ?contamination) no fatty acids. - The thalli of the issued specimens are strongly elongated, have down-rolled margins, and show isidia which are partly coralloid branched (soredia-like structures, which are typical for *Parmelia submontana*, are not developed). Pseudocyphellae are mostly confined to the marginal area of the lobes forming a white rim. In some specimens, 'normal' thalli of *Parmelia saxatilis* (in a narrower sense) are intermixed. The specimen in GZU is fertile.

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1156. *Parmelia saxatilis* [aggregate]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of Sankt Radegund, 70 m east of Schöcklkopf, 47°12'10"N, 015°28'41"E, (grid number 8758/4), elevation 1280 m, southeast exposed steep slopes with calcareous outcrops, on stem bark of *Picea abies*. – 15 November 2015, collected and determined by Walter Obermayer (13630).

Note: TLC (Obermayer553-12→14, 554-12→16, 555/17,18; all specimens tested once or twice): Atranorin (mostly in traces only), chloroatranorin (mostly in traces or in minor quantities), salazinic acid syndrome (always present; salazinic acid and consalazinic acid in major amounts, galbinic acid p,p. in traces), at least two strong spots of fatty acids always present (lichesterinic/isonephrosterinic acids, protolichesterinic/nephrosterinic acids). Lobaric acid (as minor compound) was detected in thalli of specimens in CANB, GZU, NY, and UPS.

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1157. *Parmelia saxatilis* (Linnaeus) Acharius (in a [moderately] strict sense)

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Stubalpe, 18.5 km west of the centre of Köflach, 2.6 km southwest of Hirscheeggersattel (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 earth and bryophytes (covering a rock surface). – 14 August 2016, collected and determined by Walter Obermayer (13826).

Note: TLC (Obermayer548-14; specimen in GZU tested): Atranorin, stictic acid syndrome, [no fatty acids !!].

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1158. *Parmelina tiliacea* (Hoffmann) Hale

AUSTRIA, Steiermark (=Styria), Eastern Alps, Noric Alps, 4.6 km southwest of Neumarkt, Grebenzen, 200 m north of the church of Pöllau, near the wayside cross 'Feichter-Kreuz', 47°02'27"N, 014°23'11"E, (grid number 8952/3), elevation 1147 m, between the road and an open meadow, on bark of a *Tilia cordata* (8 m trunk circumference). – 13 November 2016, collected and determined by Walter Obermayer (13779).

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1159. **Parmotrema arnoldii** (Du Rietz) Hale

AUSTRIA, Steiermark (=Styria), Eastern Alps, Lower Tauern, Schladming Tauern, 14.8 km south-southwest of the centre of 'Stein an der Enns', valley of Kleinsölk, 850 m south-southwest of Breitlahnhütte, along the brook Schwarzenseebach, 47°18'34.5"N, 013°53'03"E, (grid number 8649/3), elevation 1090 m, fringe of *Alnus incana*, on *Alnus incana* (part of the tree was fallen in springtime; specimens were collected at about 4 m stem height). – 30 September 2017, collected and determined by Helmut Mayrhofer (21621).

Note: TLC (Mayrhofer & Kosnik): Atranorin, alectoronic acid, α -collatolic acid. - The following (rather rare) species were present on the same tree: *Cetrelia monachorum*, *Hypotrachyna revoluta*, *Lobaria pulmonaria*, *Menegazzia terebrata*, *Lobarina scrobiculata*, *Pannaria conoplea*.

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1160. **Peltigera leucophlebia** (Nylander) Gyelnik

AUSTRIA, Steiermark (=Styria), Eastern Alps, Noric Alps, Seetal Alps, 11.3 km southwest of the centre of Judenburg, path from 'Kleiner Winterleitensee' to 'Großer Winterleitensee', 200 m west of Winterleitenhütte, 47°05'40"N, 014°34'05"E, (grid number 8953/1), elevation 1785 m, edge of a forest with *Picea abies*, *Larix decidua* and *Pinus cembra*, on bryophytes (covering a gneissic rock). – 30 November 2014, collected and determined by Walter Obermayer (13308).

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1161. **Pertusaria coronata** (Acharius) Theodor Fries

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of Sankt Radegund, 200 m southeast of Schöcklkopf, 47°12'05"N, 015°28'41"E, (grid number 8758/4), elevation 1260 m, along a forestry road, on stem bark of *Fagus sylvatica* (southwest exposed). – 15 November 2015, collected and determined by Walter Obermayer (13830).

Note: TLC (Obermayer548-15; specimen in GZU tested): Stictic acid syndrome, coronatone (= 4,5-dichlorolichexanthone), and one related xanthone (in B above coronatone). Isidia UV+ orange.

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1162. **Phaeophyscia orbicularis** (Necker) Moberg

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, urban area of Graz, Schubertstraße, 150 m southwest of the pond Hilmteich, 47°04'57"N, 015°27'31"E, (grid number 8958/2), elevation 374 m, avenue trees, on bark of *Aesculus hippocastanum* (0.5 to 1 m stem height). – 14 March 2014, collected and determined by Walter Obermayer (13323).

Note: Although collected on a single tree, the issued material consists of different morpho-/genotypes. Part of the material is infected with *Arthonia phaeophysciae*. *Physcia adscendens* and *Hyperphyscia adglutinata* (the latter in GZU) are partly intermixed.

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1163. **Phaeorrhiza nimbose** (Fries) Helmut Mayrhofer & Poelt

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Carnic Alps, 8 km southwest of Hermagor, 2.6 km northeast of Nassfeldpass, western minor summit of Gartnerkofel, 46°34'20"N, 013°18'15"E, (grid number 9445/2), elevation 2180 m, alpine meadow with calcareous outcrops (Triassic limestone), on bare soil. – 1 September 2007, collected and determined by Josef Hafellner (75841).

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1164. **Physcia biziana** (Abramo Massalongo) Zahlbruckner

CROATIA, Istria County, Vrsar, 200 m north of the harbour, 100 m east of the bathing beach, path to a vantage point on a small rocky hill, 45°09'08"N, 013°35'58"E, elevation 11 m, on twigs of *Pistacia terebinthus*. – 23 September 2016, collected and determined by Walter Obermayer (13897).

Note: Specimen in GZU intermixed with *Physcia aipolia*.

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1165. **Physcia stellaris** (Linnaeus) Nylander

AUSTRIA, Oberösterreich (=Upper Austria), Bohemian Massif, Austrian Gneiss and Granite Plateau, 13.6 km north of the centre of Freistadt, 1.9 km north-northwest of Leopoldschlag-Markt, Hussenberg, 48°37'50"N, 014°29'22"E, (grid number 7352/4), elevation 625 m, on twigs of *Betula pendula*. – 1 July 2017, collected and determined by Roman Türk (58277).

Note: TLC (Obermayer555-21; specimen in GZU tested): Atranorin (maj.), chloroatranorin (min.), [no zeorin detected].

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1166. Physciella chloantha (Acharius) Esslinger

[recently used synonym: *Phaeophyscia chloantha*]

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, urban area of Graz, Schubertstraße, 150 m southwest of the pond Hilmteich, 47°04'57"N, 015°27'31"E, (grid number 8958/2), elevation 374 m, avenue trees, on bark of *Aesculus hippocastanum* (0.5 to 1 m stem height). – 14 March 2014, collected and determined by Walter Obermayer (13127).

Note: TLC (Obermayer501-19; specimen in GZU tested): No substances detected.

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1167. Polycauliona candelaria (Linnaeus) Frödén,
Arup & Søchting

AUSTRIA, Salzburg, Eastern Alps, Lungau region (=Tamsweg District), Lower Tauern, Schladming Tauern, 1.7 km northeast of Mauterndorf, Fanningberg, 47°08'44"N, 013°41'35"E, (grid number 9048/3), elevation 1270 m, on bark of *Larix decidua*. – 3 April 2016, collected and determined by Roman Türk (56310).

Note: Specimen in GZU with apothecia.

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1168. Porina lectissima (Fries) Zahlbruckner

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Koralpe, 8.9 km northwest of Eibiswald, 1.6 km east-northeast of the church of Sankt Katharina in der Wiel, south of the farmhouse Hohl, southern base area of a small hilltop, 46°43'50"N, 015°08'50"E, (grid number 9256/4), elevation 760 m, big boulders of eclogite (in the shade of a loose mixed forest), on steep rock faces. – 28 November 2009, collected and determined by Josef Hafellner (74867).

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1169. Protopannaria pezizoides (Weber ex Wiggers) Per Magnus
Jørgensen & Stefan Ekman

FRANCE, Auvergne-Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc group, slopes southeast above Chamonix, southwest of Refuge du Plan de l'Aiguille, 45°54'18"N, 006°52'56"E, elevation 2200 m, scree and scattered boulders of siliceous schist in dwarf shrub heath slightly above the tree line (exposed to northwest), on soil (alongside the trail). – 18 August 2011, collected and determined by Josef Hafellner (82710).

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1170. Pseudevernia furfuracea (Linnaeus) Zopf
[chemical race '*furfuracea*']

AUSTRIA, Steiermark (=Styria), Eastern Alps, Noric Alps, 4.4 km southwest of Neumarkt, Grebenzen, 0.9 km west-northwest of Pöllau, along the road from Pöllau to Zeutschach, 'Im Toscha', 47°02'45"N, 014°23'00"E, (grid number 8952/3), elevation 1175 m, small bog, on twigs of a fallen *Picea abies* (tree top area). – 17 September 2016, collected and determined by Walter Obermayer (13737).

Note: Each specimen was 'spot-tested' ('C-') at least on five different spots using a commercial hygienic cleaner (contains 2.5 % sodium hypochlorite as bleaching agent). Specimens in GZU and UPS additionally contain (separated) thalli of the chemical race '*ceratea*' ('C+red'). Specimens partly with apothecia (e.g. in GZU).

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1171. Psora decipiens (Hedwig) Hoffmann

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, High Tauern (National Park), Glockner Group, 6.5 km north-northwest of Heiligenblut, flattened area west of the summit of Brennkogel (close to the border to Salzburg), 47°05'50"N, 012°48'59"E, (grid number 8942/2), elevation 2970 m, on soil (above calcium rich mica schist). – 11 September 2011, collected and determined by Roman Türk (51752).

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1172. Psora decipiens (Hedwig) Hoffmann

GREECE, Crete, Periferiaki Enotita Irakliou, 22 km east of the center of Heraklion, north-northwest of Limenas Chersonisou, between Analipsi (Svourou Metochi) and Límin Chersonísou, south of Akrotiri Chersonisou, 1 km west of the church Byzantinos Ekklesia, 35°19'24"N, 025°22'54"E, elevation 50 m, remnants of Phrygana vegetation, on soil (above calcareous rocks). – 23 August 2001, collected by Helmut Wittmann, determined by Einar Timdal (2017).

Note: TLC (Obermayer554-02; specimen in GZU tested): Norstictic acid (maj.).

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1173. **Pycnora praestabilis** (Nylander) Hafellner

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Styrian Fringe Mountains, Koralpe, 12.6 km northeast of the centre of Wolfsberg, 100 m west-northwest of the summit cross of Bärenfen, north facing ridge area, 46°53'25"N, 014°59'30"E, (grid number 9155/2), elevation 1710 m, loose montane forest (with abundant understorey and small outcrops), on snags of *Larix decidua*. – 25 June 2006, collected by Josef Hafellner (70788) & Lucia Muggia, determined by Josef Hafellner.

Note: All specimens with apothecia. Due to alectorialic acid (and in connection with the storage of the specimens for more than 10 years), the thalli are slightly pinkish coloured.

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1174. **Pyrenula nitidella** (Flörke ex Schaerer) Müller Argoviensis

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, Raabklamm (orographically right side of the river Raab), 4.3 km west-southwest of Weiz, 0.2 km northwest of a water power station, near a dilapidated saw mill, 47°12'30"N, 015°34'15"E, (grid number 8759/3), elevation 470 m, riparian forest, on stem bark of *Fraxinus excelsior*. – 26 October 2009, collected and determined by Josef Hafellner (74647).

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1175. **Ramalina farinacea** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, 3.7 km north-northwest of the centre of Schladming, 1.5 km east of the centre of Ramsau, between the hotels Stierer and Feistererhof, 47°25'32"N, 013°40'12"E, (grid number 8548/3), elevation 1140 m, open meadows with tree rows, on stem bark of *Fraxinus excelsior*. – 24 February 2017, collected and determined by Walter Obermayer (13852).

Note: TLC (Obermayer549-18; specimen in GZU tested): Usnic acid (traces), protocetraric acid.

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1176. **Ramalina fraxinea** (Linnaeus) Acharius

AUSTRIA, Salzburg, Eastern Alps, Pongau region (= Sankt Johann im Pongau District), Tennengebirge, 7 km northeast of the centre of Bischofshofen, 1.5 km northeast of Werfenweng, Wengerwinkel, 47°28'19"N, 013°16'05"E, (grid number 8545/2), elevation 950 m, on *Fraxinus excelsior*. – 12 March 2017, collected and determined by Roman Türk (57550).

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1177. *Ramalina fraxinea* (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, 2.9 km northwest of the centre of Schladming, 1.9 km south of the centre of Ramsau, Vorberg, 140 m east-northeast of the inn 'Stocker', 47°24'11"N, 013°38'20"E, (grid number 8547/4), elevation 1085 m, open meadow with single trees, on snow covered ground (underneath a big old *Fraxinus excelsior*; specimens were blown down from twigs). – 24 February 2017, collected and determined by Walter Obermayer (13856).

Note: TLC (Obermayer549-03; specimen in GZU [including apothecium] tested): Usnic acid only.

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1178. *Rinodina austroborealis* Sheard

U.S.A., Alaska, Yukon-Koyukuk Census Area, Brooks Range, Endicott Mountains, valley of Middle Fork of the Koyukuk River, north of Wiseman, between Hammond Road and Trans Alaska Pipeline, 67°28'00"N, 150°03'00"W, elevation 370 m, boreal forest with dominant *Picea mariana* and understorey of *Betula glandulosa* (over alluvial soils), on dead twigs of *Salix* spec. – 18 August 2010, collected by Josef Hafellner (41987), determined by Helmut Mayrhofer (2017).

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

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1179. *Rinodina cinnamomea* (Theodor Fries) Räsänen

AUSTRIA, Tirol, Eastern Alps, Ötztal Alps, 14 km south of the centre of Sölden, 3.1 km south of the centre of Obergurgl, southwest exposed slopes of 'Hohe Mut', path from 'Schönwieshütte' to 'Wetterstation Bärenhoppet', 46°50'34.7"N, 011°02'02.8"E, (grid number 9132/3), elevation 2490 m, alpine grassland and dwarf shrubs, on ground and plant remnants. – 19 September 2014, collected and determined by Helmut Mayrhofer (21606).

Note: TLC (Kosnik & Mayrhofer): Atranorin, variolaric acid, 1-O-methylemodin or 8-O-methylemodin [chemotype D]. Thalli without orange coloured medulla (*Rinodina mniaroea* s.str.) are partly intermixed (and marked).

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1180. *Rinodina cinnamomea* (Theodor Fries) Räsänen

FRANCE, Auvergne-Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Chablais Alps, Tête Pelouse east above Flaine, southwest ridge northeast above Col de Plate, 45°59'46"N, 006°43'53"E, elevation 2360 m, low outcrops of clay shale (partly with low content of calcium) in alpine pasture on a slope facing to the west, on plant remnants. – 19 August 2011, collected and determined by Helmut Mayrhofer (20205).

Note: TLC (Mayrhofer & Kosnik; all specimens tested): Skyrin [chemotype A].

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1181. **Rinodina pyrina** (Acharius) Arnold

GREECE, Attica peninsula, 45 km south-southeast of the centre of Athens, Akrotírio Soúnio, 37°39'30"N, 024°01'04"E, elevation 10-30 m, on bark of *Juniperus phoenicea*. – April 1971, collected by Josef Poelt (without collector number), determined by Helmut Mayrhofer (2017).

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1182. **Rinodina sophodes** (Acharius) Abramo Massalongo

FINLAND, Uusimaa region, Helsinki, Kuninkaansaari (=Kungsholmen) Island, southwestern shore, 60°08'01"N, 025°00'51"E, elevation 5 m, on twigs of *Sorbus aucuparia*. – 3 August 2016, collected and determined by Helmut Mayrhofer (21620).

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1183. **Scoliciosporum umbrinum** (Acharius) Arnold

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Koralpe, 13.7 km northwest of the centre of Deutschlandsberg, east facing slopes of Stoffkogel, just below the farmhouse Weberbauer, 46°52'40"N, 015°03'25"E, (grid number 9156/1), elevation 1040 m, pile of small boulders and low outcrops of eclogite-amphibolite in a pasture, on inclined rock faces. – 22 September 2012, collected and determined by Josef Hafellner (81196) [excursion together with Lucia Muggia and Angela Hafellner].

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1184. **Solorina crocea** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Lower Tauern, Seckau Tauern, 19.4 km northwest of the centre of Knittelfeld, east-facing slopes of Hochreichart, path from Brandstättertörl to the summit of Hochreichart, 47°21'43"N, 014°41'10"E, (grid number 8654/1), elevation 2200 m, boulderfield (siliceous rocks), on ground (strongly inclined faces). – 9 September 2016, collected and determined by Walter Obermayer (13718).

Note: All specimens include some thalli which are infected by *Rhagadostoma lichenicola*. Several single thalli, used for molecular studies, are marked on the cards.

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1185. **Squamarina gypsacea** (Smith) Poelt

AUSTRIA, Steiermark (=Styria), Eastern Alps, Ennstal Alps, Gesäuseberge east of Admont, south-facing slopes of Hochtor, path from Schneeloch to the summit, 47°33'30"N, 014°37'55"E, (grid number 8453/2), elevation 2050 m, bedded, low calcareous outcrops and fragments of alpine meadows, on inclined and vertical faces of low calcareous rocks. – 24 September 2005, collected and determined by Josef Hafellner (67521).

Note: All specimens with apothecia.

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1186. **Stereocaulon alpinum** Laurer

AUSTRIA, Steiermark (=Styria), Eastern Alps, Lower Tauern, Wölz Tauern, 8.6 km west-northwest of Pusterwald, ridge just south below the summit of Großhansl, 47°19'05"N, 014°15'55"E, (grid number 8651/4), elevation 2280 m, fragments of alpine grassland and big bare spots, on ground (slightly inclined). – 25 August 2005, collected and determined by Josef Hafellner (68104).

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1187. **Thelocarpon laureri** (Flotow) Nylander

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Koralpe, 13.7 km northwest of the centre of Deutschlandsberg, east facing slopes of Stoffkogel, just below the farmhouse Weberbauer, 46°52'40"N, 015°03'25"E, (grid number 9156/1), elevation 1040 m, pile of small boulders and low outcrops of eclogite-amphibolite in a pasture, on inclined rock faces. – 22 September 2012, collected and determined by Josef Hafellner (81197) [excursion together with Lucia Muggia and Angela Hafellner].

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1188. **Thelopsis melathelia** Nylander

AUSTRIA, Steiermark (=Styria), Eastern Alps, Northern Limestone Alps, Ennstal Alps, 6.1 km south-southwest of the centre of Hieflau, Lugauer, near the cross of the western summit, 47°33'12"N, 014°43'20"E, (grid number 8454/1), elevation 2210 m, fragments of Caricetum firmiae and calcareous cliffs, on northwest exposed slopes. – 3 July 2005, collected and determined by Josef Hafellner (67266).

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1189. *Trapelia glebulosa* (Smith) Jack Rodney Laundon

[recently used synonym: *Trapelia involuta*]

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Saualpe, 10.7 km west of the centre of Wolfsberg, Beilstein, 1.5 km northwest of Gießlhütte, short and flat ridge north of the summit, 46°50'55"N, 014°42'15"E, (grid number 9154/3), elevation 1400 m, eclogite outcrops with single *Larix decidua*, on eclogitic fieldstones from a rather 'fresh' clearance cairn. – 16 October 2010, collected by Josef Hafellner (76352), determined by Philipp Resl (2015).

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1190. *Varicellaria rhodocarpa* (Körber) Theodor Fries

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Stubalpe, 18.2 km west of the centre of Köflach, 2.4 km southwest of Hirscheeggertel (Salzstiegelhaus), summit area of Speikkogel, 47°03'26"N, 014°50'30"E, (grid number 8955/1), elevation 1980 m, windblown ridge, on plant remnants of vascular plants and bryophytes. – 21 Oktober 2017, collected and determined by Walter Obermayer (13927).

Note: TLC (Obermayer556/16, 557/09; specimen in GZU tested): Lecanoric acid, (gyrophoric acid?), lichexanthone [once present].

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