

Dupla Graecensia Lichenum (2003)

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OBERMAYER W. 2003: Dupla Graecensia Lichenum (2003). - Fritschiana 43: 13–45.
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Abstract: Dupla Graecensia Lichenum (2003) comprises 130 collections of lichen-duplicates (including the lichenicolous fungi *Clypeococcum hypocenomycis* and *Stigmidium schaeeri*) from Argentina (Corrientes; Misiones), Australia (Queensland), Austria (Carinthia; Lower Austria; Salzburg; Styria; Upper Austria), Brasil (Parana; Rio Grande do Sul), China (Tibet, prov. Xizang; prov. Sichuan), France (Corsica), Germany (Bavaria; Brandenburg), Greece (Aegean Islands), Italy (Trentino-Alto Adige), Russia (Eastern Siberia; Krasnoyarsk), Spain (Canary Islands; Soria), Sweden (Bohuslän), Ukraine (Melitopol), United States of America (Florida), United Kingdom (Scotland), Uruguay (Canelones; Cerro Largo; Lavalleja, Maldonado; Rocha; Tacuarembó). TLC-investigations were carried out for 12 lichenized taxa. Isotypes of *Cladonia ahtii* Stenroos are distributed. *Allocetraria flavonigrescens*, *A. globulans*, *Arthrorhaphis alpina* var. *jungens*, *Candelariella reflexa*, *Epilichen scabrosus*, *Melanelia exasperata*, and *Tuckneraria laureri* are issued as part of the results of the 'Sino-Austrian Joint Expedition to the SE-Tibetan Fringe Mountains (=Hengduan Shan), Sichuan Province, China (July/August 2000)'. *Acrosocyphus shaerophoroides*, *Dimerella isidiata*, *Hypogymnia flavida*, and *lcmadophila ericetorum* are presented as part of the results of the 'Sino-German Joint Expedition to Southeastern and Eastern Tibet 1994'.

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The dwarf-exsiccata 'Dupla Graecensia Lichenum (2003)' are issued by the herbarium of the Institute of Botany of the Karl-Franzens-University, Graz, Austria (international abbreviation: GZU). It includes lichens and lichenicolous fungi from all over the world with five to ten duplicates of each collection. Each institution receiving a duplicate is cited (at the bottom line of each individual label) with its international herbarium abbreviation (see <http://www.nybg.org/bsci/ih/searchih.html>): The herbaria in Canberra (CANB), Graz (GZU), Munich (M), New York (NY), and Uppsala (UPS) are receiving all distributed species continuously. To make every single specimen unique, the abbreviation of the herbarium, where the specimen should be housed, is underlined on the labels. Abbreviations of authors of plant names are taken from http://brimsa.huh.harvard.edu/cms-wb/botanist_index.html. Names of countries and states (or provinces or principal subdivisions) can be found under <http://www.ars-grin.gov/cgi-bin/npgs/html/geolist.pl>. Dupla Graecensia Lichenum is published as text version under <http://www-ang.kfunigraz.ac.at/~oberma/dupl-graec.htm>.

I wish to thank all the collectors and keepers of private herbaria for their contributions, in particular Josef Hafellner, Helmut Mayrhofer, Héctor S. Osorio, and Mikhail Zhurbenko. Peter Kosnik kindly assisted with TLC-analyses. Field works in Tibet (1994 and 2000) were supported by the 'Austrian Science Fund' (project numbers P09663-BIO and P13676-BIO).

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201. **Absconditella lignicola** Vezda & Pisut

AUSTRIA, Steiermark (=Styria), Grazer Bergland, Schöckl-area N of Graz, E and NE of Stattegg-Hub, orographically left side of Falschgraben, 47°08.9'N / 15°25.8'E, MTB 8858/4, 620 m alt., forested ravine, on debarked, slightly rotten twig of *Pinus sylvestris*. – 18.X.2000, leg. Ch. Scheuer (4146), det. J. Hafellner.

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202. **Acroscyphus sphaerophoroides** Lév.

CHINA, Tibet, prov. Xizang, Himalaya Range, 280 km ESE of Lhasa, 40 km SW of Mainling, 29°03'N / 93°56'E, 4300 m alt., *Juniperus-Rhododendron* forest, on wood of dead *Juniperus*. – 12.VIII.1994, leg. & det. W. Obermayer (06077).

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203. **Allantoparmelia alpicola** (Th.Fr.) Essl.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Schleifkogel ENE above St. Johann am Tauern, N-facing slopes in summit area, 47°22'10"N / 14°29'55"E, MTB 8652/2, 2060 m alt., dwarf-shrub heath and outcrops, on inclined faces of gneissic rocks. – 29.IX.2001, leg. & det. J. Hafellner (57291).

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204. **Allocetraria flavonigrescens** A.Thell & Randlane

CHINA, Tibet, prov. Sichuan, Tibetan fringe mountains (=Hengduan Shan), Shaluli Shan, 50 km S of Litang, road from Cogsum to Sumdo, 29°33'00"N / 100°17'25"E, 4300 m alt., *Caragana*-scrub (with *Salix* and *Larix*), on *Caragana* spec. (at 0-30 cm stem-height). – 8.VIII.2000, leg. & det. W. Obermayer (09575).

Note: TLC (all specimens tested): Usnic acid, fumarprotocetraric acid, protocetraric acid (three further related compounds in traces). In upper part of one and the same *Caragana* shrub, the species has been replaced by *Allocetraria globulans*, which is also issued in the same fascicle.

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205. *Allocetraria globulans* (Nyl.) Thell & Randle

CHINA, Tibet, prov. Sichuan, Tibetan fringe mountains (=Hengduan Shan), Shaluli Shan, 50 km S of Litang, road from Cogsum to Sumdo, 29°33'00"N / 100°17'25"E, 4300 m alt., *Caragana*-shrub (with *Salix* and *Larix*), on *Caragana* spec. (at 70-130 cm stem-height). – 8.VIII.2000, leg. & det. W. Obermayer (09576).

Note: TLC (all specimens tested): Usnic acid, two fatty acids. - In lower parts of one and the same *Caragana*-shrub, the species has been replaced by *Allocetraria flavinigrescens*, which is also issued in the same fascicle.

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206. *Allocetraria madreporiformis* (Ach.) Kärnefelt & Thell

ITALY, Trentino-Alto Adige, prov. Bolzano (=Südtirol), Le Odle (=Geisler Spitzen) NE of Ortisei (=St. Ulrich), on the slopes and ridge area just E above Forc Pana (=Pana Scharte), 46°36'05"N / 11°44'15"E, 2470-2550 m alt., low outcrops of limestone in alpine vegetation, on ground. – 2.IX.2002, leg. & det. W. Obermayer (10178).

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207. *Arthonia melanophthalma* Duf.

GREECE, East Aegean Islands, Nomos Dodekanisou, Kos Island, Kefalos peninsula, 4 km S of Kefalos, small volcano cone between Mt Latra and Zini, 36°42.7'N / 26°57.9'E, 250 m alt., *Phrygana* dwarfshrub vegetation with siliceous rock outcrops and N-facing cliff, on branches of dwarfed *Quercus coccifera* shrub (W-exposed). – 25.IX.2000, leg. H. Sipman (47257) & Th. Raus, det. H. Sipman.

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208. *Arthonia radiata* (Pers.) Ach.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, NE-facing slopes of Hämmerkogel, SW above Obere Bodenhütte, 47°21'05"N / 14°46'10"E, MTB 8654/2, 1800 m alt., loose *Pinus-cembra*-forest (between *Pinus mugo*), on bark of *Sorbus aucuparia*. – 04.VI.2002, leg. & det. J. Hafellner (58678).

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209. *Arthonia spadicea* Leight.

AUSTRIA, Steiermark (=Styria), Sausal, 5 km W of Leibnitz, Demmerkogel, NW of Heimschuh, uppermost part of Stumpfgraben, 46°46'15"N / 15°28'45"E, MTB 9258/2, 300 m alt., mixed forest, on bark of *Picea abies*. – 25.III.2000, leg. & det. J. Hafellner (53818).

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210. *Arthrorhaphis alpina* (Schaer.) R.Sant. var. *jungens* Obermayer & Poelt

CHINA, Tibet, prov. Sichuan, Tibetan fringe mountains (=Hengduan Shan), Shaluli Shan, 50 km S of Litang, road from Cogsum to Sumdo, 29°32'55"N / 100°17'20"E, 4300 m alt., boulder field (big siliceous rocks) with *Potentilla*, *Caragana*, *Salix*, *Juniperus*, on naked earth (inbetween *Rhododendron* and *Potentilla* shrubs). – 9.VIII.2000, leg. & det. W. Obermayer (09614).

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211. *Aspicilia fruticulosa* (Eversm.) Flagey

SPAIN, Soria, plateau ('Paramera') W of Calatayud, W of the village Judes, SE of Arcos de Jalón, 41°08'N / 02°11'W, 1200 m alt., open Juniperetum thuriferae, on calciferous skeleton-ground. – 24.V.1983, leg. J. Hafellner (17527), A. Crespo, H. Mayrhofer & J. Poelt, det. J. Hafellner (2003).

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212. *Bacidia absistens* (Nyl.) Arnold

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Obertal S of Schladming, valley of Giglachbach, on the path to Lackneralm, 47°18'50"N / 13°41'10"E, MTB 8648/3, 1100 m alt., *Picea abies* forest with *Alnus incana* (wet bottom of a slope), on stembark of *Picea abies*. – 25.VIII.2001, leg. & det. W. Obermayer (10141).

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213. *Bacidia rubella* (Hoffm.) A.Massal.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Liesing SW of Wald am Schoberpass, front part of the Ripplgraben, E below the former farm building 'Rippl in Reith', 47°24'50"N / 14°40'05"E, MTB 8554/3, 1020 m alt., remnants of a revine forest with *Acer pseudoplatanus* and *Fraxinus excelsior*, on bark of *Fraxinus excelsior*. – 12.VII.2001, leg. & det. J. Hafellner (56207).

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214. *Biatorrella ochrophora* (Nyl.) Arnold

GERMANY, Brandenburg, Landkreis Uckermark, Suckow, former estate park, MTB 2849/3, 50 m alt., deciduous swampy forest at S-side of the lake, on fallen *Populus* tree-trunk (about halfway up). – 24.IV.2001, leg. & det. H. Sipman (47530).

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215. *Biatorrella ochrophora* (Nyl.) Arnold

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, Feistritzgraben N of Knittelfeld, S below Pulvermacheralm, 47°20'10"N / 14°49'55"E, MTB 8654/4, 1100 m alt., mixed forest near a brook, on bark of *Sambucus racemosa*. – 15.VI.2002, leg. & det. J. Hafellner (58634).

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216. *Bryoria bicolor* (Ehrh.) Brodo & D.Hawksw.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Rippetegg SW of Schladming, summit-area of Rippetegg, NE-facing slopes, 5 - 10 m below the summit, 47°20'30"N / 13°36'00"E, MTB 8647/4, 2120 m alt., NNE-exposed, inclined mica slate faces, on duff-cover on wind-exposed ridge. – 26.VIII.2001, leg. & det. W. Obermayer (10151).

Note: Pro parte intermixed with *Bryoria nadvornikiana*.

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217. *Bryoria fuscescens* (Gyeln.) Brodo & D.Hawksw. coll.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, footpath from Gasselhöhehütte to the lake Mittersee, 47°21'25"N / 13°35'45"E, MTB 8647/2, 1760 m alt., mixed forest with *Picea abies*, *Larix decidua* and *Pinus cembra*, on *Picea abies*. – 26.VIII.2001, leg. & det. W. Obermayer (09395).

Note: TLC (all specimens - always only one single thallus with soralia - tested): Fumarprotocetraric acid (maj.), protocetraric acid (min.).

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218. *Buellia aethalea* (Ach.) Th.Fr.

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Gleinalpe, Mugel S of Niklasdorf, slopes between Ochsenstall and a tower of a radio transmitter, 47°22'10"N / 15°10'50"E, MTB 8657/1, 1320 m alt., pasture ground with siliceous outcrops, on NE-exposed, steep faces of large boulders. – 06.X.2001, leg. & det. J. Hafellner (58023).

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219. *Buellia griseovirens* (Turner & Borrer ex Sm.) Almb.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Obertal S of Schladming, between Hopfriesen and the inn Tauerngold, 47°19'05"N / 13°41'20"E, MTB 8648/3, 1060 m alt., *Alnus incana* trees near the brookside, on *Alnus incana*. – 25.VIII.2001, leg. & det. W. Obermayer (09107).

Note: All specimens with apothecia; TLC: Atranorin, norstictic acid.

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220. *Calicium trabinellum* (Ach.) Ach.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, Feistritzgraben NNE of Knittelfeld, Weinmeisterboden, footpath from Untere Bodenhütte to Obere Bodenhütte, 47°21'20"N / 14°47'15"E, MTB 8654/2, 1500 m alt., clearing in a coniferous forest with *Picea abies* and *Larix decidua*, on decayed stumps. – 15.VI.2000, leg. & det. J. Hafellner (58707).

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221. *Caloplaca tetraspora* (Nyl.) H.Olivier

RUSSIA, Krasnoyarsk Territory (N of Central Siberia), Severnaya Zemlya Archipelago, NW extremity of Bol'shevik Island, peninsula with cape Baranova, eastern coast of Shokal'skogo Strait, 1 km SE of "Mys Baranova" polar station, 79°16'N / 101°40'E, 20 m alt., moist to mesic hill slope with stones, gravel and silt, in sparse lichen-bryophyte vegetation, on bryophytes. – 15.VII.1996, leg. & det. M. Zhurbenko (96716).

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222. *Candelariella reflexa* (Nyl.) Lettau

CHINA, Tibet, prov. Sichuan, Tibetan fringe mountains (=Hengduan Shan), Shaluli Shan, 50 km S of Litang, road from Cogsum to Sumdo, 29°32'55"N / 100°17'20"E, 4300 m alt., boulder field (big siliceous rocks) with *Potentilla*, *Caragana*, *Salix*, *Juniperus*, on bark of *Caragana* spec. (80 cm above ground). – 9.VIII.2000, leg. & det. W. Obermayer (09608).

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223. *Catapyrenium squamulosum* (Ach.) Breuss

RUSSIA, Krasnoyarsk Territory (N of Central Siberia), Severnaya Zemlya Archipelago, NW extremity of Bol'shevik Island, W-coast of Akhmatov Bay, 7 km SW of the Bazovaya river mouth, 300 m away from the bay coast, 79°04'N / 102°41'E, 40 m alt., mesic silt-gravelly flat coastal plain, in microdepression with forb-*Novosiversia glacialis*-*Salix polaris*-*Potentilla*-*Luzula*-lichen-bryophyte vegetation, on loamy soil with fine gravel and plant remnants (abundant). – 18.VII.1996, leg. & det. M. Zhurbenko (96580).

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224. *Cetraria sepincola* (Ehrh.) Ach.

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, Kleiner Speikogel, N-facing slopes, NW below the summit, 46°47'05"N / 14°58'40"E, MTB 9255/2, 2080 m alt., alpine meadows with mica schist outcrops, on twigs of *Rhododendron ferrugineum*. – 29.X.2000, leg. J. Hafellner (53206) & A. Hafellner, det. J. Hafellner.

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225. *Chaenotheca brachypoda* (Ach.) Tibell

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Gleinalpe, 4 km NW of Rothleiten, Gamsgraben, between the confluences of the Golleitengraben and Leimbachgraben, 47°17'50"N / 15°15'35"E, MTB 8757/2, 580 m alt., fragments of a ravine forest (near the brook), on bark of *Fraxinus excelsior*. – 3.XII. 2000, leg. & det. J. Hafellner (53816).

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226. *Cladia aggregata* (Sw.) Nyl.

URUGUAY, Maldonado, Cerro del Aguila (near Aiguá city), 34°12'S / 54°45'W, 120 m alt., on soil. – 30.XI.2002, leg. F. Scarabino (s.n.; ex herb. Osorio no 9612), det. H.S. Osorio (2003).

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227. *Cladonia ahtii* Stenroos

- ISOTYPE -

BRASIL, Rio Grande do Sul, Viamao, Morro do Coco, 30°05'S / 51°02'W, rotten trunk of *Eucalyptus*, – 26.XI.1980, leg. & det. H.S. Osorio (7794).

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228. *Cladonia ahtii* Stenroos

URUGUAY, Rocha, 63 km NE of Rocha City, 14 km N of Palmar de Castillos, route 16, road kilometer 18, 34°05'41"N / 53°51'04"E, 50 m alt., palm grove, on trunk of *Butia capitata* (locally common). – 24.IV.2003, leg. H.S. Osorio (9645) & G. Geymonat, det. H.S. Osorio (2003).

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229. *Cladonia furcata* (Huds.) Schrad. s.l.

URUGUAY, Lavalleja, waterfall of Penitente brook, 34°21'S / 55°10'W, on rocks. – 9.IV.2001, leg. G. Geymonat (s.n.; ex herb. Osorio no 9462), det. H.S. Osorio (2001).

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230. *Cladonia rangiformis* Hoffm.

GREECE, East Aegean Islands, Nomos Dodekanisou, Kalimnos Island, Vathis valley, N of Metochi, along road to chapel of Panagia Kira Psili, 36°59'N / 26°59'E, 300 m alt., N-facing steep rocky slope with *Phrygana* dwarfshrub and limestone outcrops and cliffs, near the ridge, on ground. – 21.IX.2000, leg. H. Sipman (46939) & Th. Raus, det. H. Sipman (2001).

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231. *Cladonia squamosa* Hoffm.

var. *squamosa*

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, Speikbichl N of Knittelfeld, S-facing slopes into the Feistritzgraben, above the Schwaigerhütte, 47°20'55"N / 14°49'05"E, MTB 8654/4, 1540 m alt., coniferous forest with *Larix decidua* and *Picea abies*, on naked earth (slopes of a forest road). – 22.VI.2000, leg. J. Hafellner (51745) & A. Hafellner, det. J. Hafellner.

Note: Due to squamatic acid, the thalli show a white fluorescence in UV366 (all thalli examined).

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232. *Cladonia strepsilis* (Ach.) Grognot

URUGUAY, Maldonado, 25 km NW of Rocha City, 30 km SE of Aiguá, near Cerro Catedral, Pozo del Buey, 34°25'S / 54°33'W, on rocks. – 26.I.2001, leg. G. Geymonat (s.n.; ex herb. Osorio no 9431), det. H.S. Osorio (2001).

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233. *Cladonia subradiata* (Vain.) Sandst.

URUGUAY, Canelones, Bañados de Carrasco, 2 km NE of Paso Carrasco, 34°53'S / 56°03'W, on stump of *Eucalyptus* (on sandy soil). – 8.IX.1984, leg. & det. H.S. Osorio (8413).

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234. *Cladonia sulphurina* (Michx.) Fr.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, Feistritzgraben NNE of Knittelfeld, Weinmeisterboden, footpath from Untere Bodenhütte to Obere Bodenhütte, 47°21'20"N / 14°47'15"E, MTB 8654/2, 1500 m alt., clearing in a coniferous forest with *Picea abies* and *Larix decidua*, on decayed stumps. – 15.VI.2000, leg. & det. J. Hafellner (58702).

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235. *Cladonia symphyarpa* (Flörke) Fr.

AUSTRIA, Steiermark (=Styria), Nördliche Kalkalpen, Ennstaler Alpen, Gesäuseberge, NE above the Oberst-Klinke-Hütte, path from Kalblinggatterl to the Kalbling, S below the steep rocks, 47°32'40"N / 14°31'15"E, MTB 8453/3, 1750 m alt., limestone outcrops within Mugo-Pine-scrub, on ground. – 26.V.2000, leg. & det. J. Hafellner (51255).

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236. *Clypeococcum hypocenomycis* D.Hawksw.

[lichenicolous fungus on *Hypocenomyce scalaris*]

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, foot-path from Gasselhöhehütte to Mittersee, 47°21'25"N / 13°35'45"E, MTB 8647/2, 1760 m alt., coniferous forest with *Picea abies*, *Larix-decidua*, and *Pinus cembra*, on stem-bark of *Larix decidua* (WNW-exposed, 1.5 m height). – 26.VIII.2001, leg. W. Obermayer (10142), det. J. Hafellner.

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237. *Collema flaccidum* (Ach.) Ach.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, Gulsen S of Kraubath, S-exposed slopes facing Preg, 47°16'55"N / 14°55'30"E, MTB 8755/2, 700 m alt., serpentinite outcrops in a *Pinus sylvestris* forest, on base of the rocks (shadowed by *Pinus sylvestris*). – 13.V.1999, leg. & det. J. Hafellner (53827).

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238. *Dimelaena oreina* (Ach.) Norman [chemotype V]

ITALY, Trentino-Alto Adige, prov. Bolzano (=Südtirol), Val Venosta (=Vinschgau), slopes just W above Laudes (=Laatsch), 46°40'40"N / 10°31'45"E, 1000-1050 m alt., steppe like vegetation in E-exposed slopes with outcrops and steep rugged rocks of siliceous schist, – 3.IX.2002, leg. & det. W. Obermayer (09427).

Note: TLC: Usnic acid (maj.), stictic acid (maj.), norstictic acid (min.), ?hypoconstictic acid (min.).

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239. *Dimerella isidiata* G.Thor & Vezda

CHINA, Tibet, prov. Xizang, Himalaya Range, 275 km ESE of Lhasa, 60 km SW of Mainling, 29°02'N / 93°53-54'E, 3150-3250 m alt., forest area close to a river, on *Quercus*. – 9.VIII.1994, leg. & det. W. Obermayer (05798).

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240. *Diploschistes diploschistoides* (Vain.) Salisbury

AUSTRALIA, Queensland, Beerwah, Glass House Mountains National Park, W of Mt Tibrogargan, N of Beerburrum, above Picnic Area, 28°55,5'S / 152°56,5'E, 50 - 80 m alt., rhyolite boulders and outcrops in open dry sclerophyll forest, on rock. – 20.VIII.1993, leg. H. Mayrhofer (11601), E. Hierzer, N. & N. Stevens, det. H.T. Lumbsch (2001).

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241. *Diplotomma lutosum* A.Massal.

[Syn.: *Buellia subdispersa* Migula]

AUSTRIA, Salzburg, Nördliche Kalkalpen, Hochkönigmassiv, NE of Dienten, summit area of Taghaube, 47°24'10"N / 13°02'50"E, MTB 8544/3, 2150 m alt., on vertical S-exposed limestone rocks. – 4.VIII.1996, leg. & det. H. Wittmann (s.n.).

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242. *Epilichen scabrosus* (Ach.) Clem.

[parasitic lichen on *Baeomyces*]

CHINA, Tibet, prov. Sichuan, Tibetan fringe mountains (=Hengduan Shan), Shaluli Shan, 58 km NE of Batang, 30°18'02"N / 99°33'17"E, 4530 m alt., big single boulders on alpine dwarf shrub heath near a lake, on soil. – 4.VIII.2000, leg. & det. W. Obermayer (10166).

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243. *Evernia prunastri* (L.) Ach.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Liesing SW of Wald am Schoberpass, near the farmhouse Reichenstaller, 47°25'25"N / 14°38'05"E, MTB 8553/4, 1150 m alt., *Alnus incana* floodplain, on stem bark of *Acer pseudo-platanus*. – 24.V.2001, leg. & det. J. Hafellner (56978).

Note: All specimens with apothecia !.

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244. *Flavocetraria nivalis* (L.) Kärnefelt

ITALIA, Trentino-Alto Adige, prov. Bolzano (=Südtirol), Le Odle (=Geisler Spitzen) NE of Ortisei (=St. Ulrich), on the slopes and ridge area just E above Forc Pana (=Pana Scharte), 46°36'05"N / 11°44'15"E, 2470-2550 m alt., low outcrops of limestone in alpine vegetation, on ground. – 2.IX.2002, leg. & det. W. Obermayer (10179).

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245. Fuscidea stiriaca (A.Massal.) Hafellner
[Syn.: *Fuscidea cyathoides* var. *corticola*; *Fuscidea fagicola*]

AUSTRIA, Kärnten (=Carinthia), Karawanken, Steiner Alpen, 11 km SSW of Bad Eisenkappel, Vellacher Kotschna, foot-path to Offnerhütte, 46°23'55"N / 14°34'10"E, MTB 9553/3, 980 m alt., mixed forest, on *Acer pseudoplatanus* (along a brook). – 09.VII.2003, leg. & det. W. Obermayer (10154).

Note: The bean-shaped spores are partly two-celled.

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246. Gyalideopsis vainioi Kalb & Vezda

UNITED STATES OF AMERICA, Florida, Volusia County, Orange City, Blue Spring State Park, 28°57'N / 81°18'W, 8 m alt., pine woods grading into live oak forest (along hiking trail), on upper branches of *Pinus elliotii* (recently blown down by high winds). – 9.XII.1988, leg. & det. R.C. Harris (23777).

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247. Haematomma ochroleucum (Neck.) J.R.Laundon
var. *pophyrium* (Pers.) J.R.Laundon

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Obertal S of Schladming, valley of Giglachbach, footpath to Lackneralm, 47°18'40"N / 13°40'40"E, MTB 8648/3, 1280 m alt., boulders of mica-slate and amphibolite (in a *Picea abies* forest), on amphibolitic rock (overhang). – 25. VIII. 2001, leg. & det. W. Obermayer (10153).

Note: TLC: Atranorin, porphyritic acid, zeorin, ?4-O-methylgyrophoric acid (min.).

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248. Heterodermia comosa (Eschw.) Follmann & Redón

ARGENTINIA, Corrientes, dept. San Cosme, Paso de la Patria, 27°19'S / 58°35'W, on shrubs. – 19.VIII.1973, leg. L.I. Ferraro (67; ex herb. Osorio 9553), det. H.S. Osorio (1973).

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249. *Heterodermia speciosa* (Wulfen) Trevis.

GERMANY, Bayern (=Bavaria), Ammergebirge, 6.5 km SE of Füssen, SE of Hohen-
schwangau, near Bleckenau, 47°32'20"N / 10°46'30"E, 1280 m alt., on solitary *Acer*
pseudoplatanus. – 28.VIII.1968, leg. A. Schröppel (s.n.), det. J. Poelt.

Note: Specimen in GZU with apothecia.

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250. *Hypocenomyce leucococca* R.Sant.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Liesing SW of
Wald am Schoberpass, near the farmhouse Reichenstaller, 47°25'25"N / 14°38'05"E,
MTB 8553/4, 1150 m alt., *Alnus incana* floodplain, on stembark of *Alnus incana*. –
24.V.2001, leg. & det. J. Hafellner (56970).

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251. *Hypogymnia bitteri* (Lyngby) Ahti

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, foot-path
from Gasselhöhehütte to Mittersee, 47°21'25"N / 13°35'45"E, MTB 8647/2, 1760 m
alt., coniferous forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on
stembark of *Larix decidua* (N-exposed, 2.5 m height). – 26.VIII.2001, leg. & det. W.
Obermayer (10140).

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252. *Hypogymnia flavida* McCune & Obermayer

CHINA, Tibet, prov. Xizang, Himalaya Range, 280 km ESE of Lhasa, 40 km SW of
Mainling, near a mountain pasture hut, 29°03'N / 93°56'E, 4500 - 4600 m alt., boul-
ders with *Rhododendron*-trees, on rock/soil. – 12.VIII.1994, leg. & det. W. Obermayer
(06016).

Note: The present morphotype with black belts on the upperside of the yellow thallus was named
'forma *balteata*' by W. Nylander. - TLC: Usnic acid, physodalic acid, protocetraric acid (min.),
unknowns (tr.).

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253. *Icmadophila ericetorum* (L.) Zahlbr.

CHINA, Tibet, prov. Xizang, Himalaya Range, 280 km ESE of Lhasa, 45 km SW of Mainling, way up to a mountain pasture hut, 29°02-03'N / 93°54-56'E, 4000 - 4100 m alt., *Abies* forest, on decayed wood of *Abies*. – 10.VIII.1994, leg. & det. W. Obermayer (05911).

Note: TLC: Perlatolic acid, thamnolic acid.

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254. *Lecanora cavicola* Creveld

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9.5 km ESE of Neumarkt, 1.3 km NE of Tonnerhütte, 0.4 km N of Moar, path from Tonnerhütte to summit of Zirbitzkogel, 47°03'28"N / 14°32'43"E, MTB 8953/1, 1850 m alt., alpine meadows with siliceous boulders, on mica schist (SSW-exposed, strongly inclined overhang). – 15.VIII.2001, leg. & det. W. Obermayer (10172).

Note: All specimens are intermixed with *Lecanora swartzii* subsp. *nylanderi* and *Pleopsisidium chlorophanum*. Due to alecortalic acid (tested with TLC) the thalli of *Lecanora cavicola* have got a reddish-brown colour within 2 years of storage.

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255. *Lecanora hybocarpa* (Tuck.) Brodo

GREECE, East Aegean Islands, Nomos Dodekanisou, Kalimnos Island, ridge above Skalia, 37°02.6'N / 26°57.2'E, 300 m alt., W-facing slope with limestone boulders and outcrops, with *Phrygana* dwarfshrub vegetation, on *Daphne gnidioides* dwarf shrub (among N-facing limestone outcrops). – 16.X.2000, leg. H. Sipman (46750) & Th. Raus, det. H. Sipman.

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256. *Lecanora lojkaeana* Szatala

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Reitereralm WSW of Schladming, path from Gasselhöhehütte to Mittersee, 47°21'25"N / 13°35'45"E, MTB 8647/2, 1760 m alt., *Picea-abies/Larix-decidua/Pinus-cembra* forest, on low, E-exposed schist-outcrops (steep surface, partly shadowed). – 26.VIII.2001, leg. & det. W. Obermayer (09076).

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257. *Lecanora mughicola* Nyl.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, NW of Knittelfeld, Brandstättkogel E above Ingeringsee, S-facing slopes in the lower part of Ochsenkar, 47°20'45"N / 14°41'45"E, MTB 8654/3, 1700 m alt., timber line with solitary conifers, on lignum of a big stump (*Picea abies*). – 13.X.2001, leg. & det. J. Hafellner (57242).

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258. *Lecanora swartzii* (Ach.) Ach. subsp. *nylanderi* (Räsänen) Leuckert & Poelt

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9.5 km ESE of Neumarkt, 1.3 km NE of Tonnerhütte, 0.4 km N of Moar, path from Tonnerhütte to summit of Zirbitzkogel, 47°03'28"N / 14°32'43"E, MTB 8953/1, 1850 m alt., alpine meadows with siliceous boulders, on mica schist (SSW-exposed, strongly inclined overhang). – 15.VIII.2001, leg. & det. W. Obermayer (10173).

Note: TLC: Atranorin, arthothelin, roccellic acid, sordidone. All specimens are intermixed with *Pleopsidium chlorophanum*.

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259. *Lecanora varia* (Hoffm.) Ach.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, footpath from Peilsteiner Alm ("Beisteiner Alm") to Griesmoar Kogel, N below the ridge, 47°25'10"N / 14°36'50"E, MTB 8553/4, 1750 m alt., coniferous forest with *Picea abies* and *Larix decidua* (at tree-line), on wood of dead twigs of *Larix decidua*. – 04.III.2000, leg. & det. J. Hafellner (51582).

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260. '*Lecidea*' *ementiens* Nyl.

RUSSIA, Krasnoyarsk Territory (N of Central Siberia), Severnaya Zemlya Archipelago, NW extremity of Bol'shevik Island, peninsula with Cape Baranova, E-coast of Shokal'skogo Strait, 1 km SE of "Mys Baranova" polar station, 79°16'N / 101°40'E, 20 m alt., wet silt-gravelly knobby gentle slope of coastal terrace with sparse lichen-bryophyte-forb-graminoid vegetation, on bryophytes. – 13.VII.1996, leg. & det. M. Zhurbenko (96745).

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261. *Lecidea nylanderi* (Anzi) Th.Fr.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Liesing SW of Wald am Schoberpass, N-exposed slopes in the Wasserfallgraben, path to the Liesingkar Alm, 47°25'30"N / 14°37'15"E, MTB 8553/4, 1350 m alt., forest with *Picea abies* and *Larix decidua*, on bark of *Picea abies*. – 25.V.2001, leg. & det. J. Hafellner (59147).

Note: UV366: White fluorescence due to divaricatic acid.

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262. *Lecidea ramulosa* Th.Fr.

RUSSIA, Krasnoyarsk Territory (N of Central Siberia), Severnaya Zemlya Archipelago, NW extremity of Bol'shevik Island, W-coast of Akhmatov Bay, 5 km SSW of the Bazovaya river mouth, 300 m away from the bay coast, 79°04'N / 102°45'E, 20 m alt., mesic steep slope of coastal terrace composed of silt with fine gravel with knobby microrelief with *Dryas-Salix polaris*-lichen-bryophytes community, on sandy soil. – 17.VII.1996, leg. & det. M. Zhurbenko (96741).

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263. *Leproloma membranaceum* (Dickson) Vainio

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Obertal S of Schladming, valley of Giglachbache, path to the Lackneralm, 47°18'40"N / 13°40'40"E, MTB 8648/3, 1280 m alt., mica-schist outcrops in *Picea abies* forest, on bryophytes over N-exposed rock surface (90 - 100 inclined). – 25. VIII. 2001, leg. & det. W. Obermayer (09411).

Note: TLC (all specimens tested): Pannaric acid, p.p. traces of atranorin.

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264. *Leptogium lichenoides* (L.) Zahlbr.

AUSTRIA, Steiermark (=Styria), Nördliche Kalkalpen, Totes Gebirge, S-exposed slopes N above the Toplitzsee, E of Gößl, 47°38'45"N / 13°55'35"E, MTB 8349/4, 750 m alt., mixed forest with *Fagus sylvatica*, *Abies alba*, and *Picea abies*, on shaded limestone outcrops. – 6.VIII.1999, leg. & det. J. Hafellner (49566).

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265. *Lobaria patinifera* (Tayl.) Hue

ARGENTINIA, Misiones, San Ignacio, Pastoreo Grande, 27°17'S / 55°24'W, 270 m alt., on trunk of indigenous tree. – 24.III.1956, leg. J.E. Montes (10056; ex herb. Osorio no 5380), det. H.S. Osorio (2002).

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266. *Lobaria pseudoglaberrima* Zahlbr.

URUGUAY, Tacuarembó, Rincón de Vassoura (Headwater of Laureles brook), 31° 22'S / 55°47'W, on trunk of trees. – 24./29.III.2002, leg. G. Geymonat (s.n.; ex herb. Osorio no 9533), det. H.S. Osorio (2002).

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267. *Lobothallia melanaspis* (Ach.) Hafellner

RUSSIA, Krasnoyarsk Territory, N of Central Siberia, Severnaya Zemlya Archipelago, N extremity of Bol'shevik Island, W coast of Mikoyan Bay, 200 m away from the bay coast, 79°18'N / 101°55'E, 10 m alt., moist to mesic silt-gravelly slope of coastal terrace with well developed porous microrelief of small knobs and *Papaver-*graminoid-lichen-bryophyte vegetation in micro-depression, on gravels, silt and bryophytes. – 21.VII.1996, leg. & det. M. Zhurbenko (96360).

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268. *Megaspora verrucosa* (Ach.) Hafellner & V.Wirth

AUSTRIA, Kärnten (=Carinthia), Karawanken, Hochobir, 8 km WNW of Bad Eisenkappel, summit-area of Hochobir, 46°30'18"N / 14°29'12"E, MTB 9452/4, 2130-2140 m alt., ridge-area (NNE-exposed faces), on plant debris (over limestone). – 08.VII.2003, leg. & det. W. Obermayer (10149).

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269. *Melanelia exasperata* (DeNot.) Essl.

CHINA, Tibet, prov. Sichuan, Tibetan fringe mountains (=Hengduan Shan), Shaluli Shan, 50 km S of Litang, road from Cogsum to Sumdo, 29°33'00"N / 100°17'25"E, 4300 m alt., *Caragana*-scrub (with *Salix* and *Larix*), on *Salix* spec.. – 8.VIII.2000, leg. & det. W. Obermayer (09529).

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270. *Micarea peliocarpa* (Anzi) Coppins & R.Sant.

AUSTRIA, Niederösterreich (=Lower Austria), Nördliche Kalkalpen, Göller-Gruppe, S-facing slopes of Weißmauer, E of Lahnsattel, 47°46'30"N / 15°31'30"E, MTB 8259/1, 1000 m alt., mixed forest (*Fagus sylvatica*, *Abies alba*, *Picea abies*), on lignum of dead decayed log. – 22.V.1998, leg. & det. J. Hafellner (51034).

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271. *Myxobilimbia lobulata* (Sommerf.) Hafellner

RUSSIA, Krasnoyarsk Territory (N of Central Siberia), Severnaya Zemlya Archipelago, N part of Bol'shevik Island, W-coast of Akhmatov Bay, 5 km SSW of the Bazovaya river mouth, 300 m away from the bay coast, 79°04'N / 102°45'E, 20 m alt., mesic steep slope of coastal terrace composed of silt with fine gravel with knobby microrelief with *Dryas-Salix polaris*-lichen-bryophytes species rich community, on sandy soil. – 17.VII.1996, leg. & det. M. Zhurbenko (96663).

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272. *Myxobilimbia sabuletorum* (Schreb.) Hafellner

AUSTRIA, Steiermark (=Styria), Oststeirisches Hügelland, S-facing slopes of the hills, 1.5 km NE of Wildon, E of Schloß Marienhof, 46°53'45"N / 15°32'00"E, MTB 9159/1, 340 m alt., base of rock faces (abandoned quarry), on bryophytes (over limestone rocks). – 17.X.2000, leg. & det. J. Hafellner (52897).

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273. *Myxobilimbia sabuletorum* (Schreb.) Hafellner

AUSTRIA, Oberösterreich (=Upper Austria), Nördliche Kalkalpen, Reichraminger Hintergebirge, 15.5 km SSE of Reichraming, Weißwasser N below Mooshöhe, 47° 45'20"N / 14°31'45"E, MTB 8253/1, 650 m alt., ravine forest (close to the brook), on bryophytes (bark of *Ulmus blabra*). – 14.X.2000, leg. & det. J. Hafellner (53811).

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274. *Myxobilimbia sabuletorum* (Schreb.) Hafellner

AUSTRIA, Oberösterreich (=Upper Austria), Nördliche Kalkalpen, Reichraminger Hintergebirge, 15.5 km SSE of Reichraming, Weißwasser N below Mooshöhe, 47° 45'20"N / 14°31'45"E, MTB 8253/1, 650 m alt., ravine forest (close to the brook), on bark of *Malus domestica*. – 14.X.2000, leg. & det. J. Hafellner (53810).

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275. *Neofuscelia delisei* (Duby) Essl.

SWEDEN, Bohuslän, Koster-Archipel SW of Strömstad, isle of Sör-Koster, 1 km SSW of Ekenäs, near Bergdalen, 58°53'N / 11°01'E, on inclined faces of coast-rocks. – 13.VI.1990, leg. J. Poelt (s.n.), det. J. Elix (2002).

Note: TLC+HPLC (Elix): Glomelliferic acid (maj.), glomellic acid (min.), gyrophoric acid (min./tr.), loxodelllic acid (min./tr.), stenosporic acid (tr.), perlatolic acid (tr.).

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276. *Neofuscelia ryssolea* (Ach.) Essl.

UKRAINE, distr. Melitopol, in steppis praed. Askania Nova, – 21.V.1924, leg. A. Oxner (s.n.), conf. J. Elix 2002.

Note: TLC+HPLC (Elix): Stenosporic acid (major), divaricatic acid (minor), gyrophoric acid (minor), perlatolic acid (tr.), 4-O-demethylstenosporic acid (tr.), oxostenosporic acid (tr.), lecanoric acid (tr.).

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277. *Nephroma parile* (Ach.) Ach.

AUSTRIA, Steiermark (=Styria), Schladminger Tauern, valley of Kleinsölk, foot-path from the hunting lodge Kohlung to Hopfgarteneben, 47°20'40"N / 13°55'10"E, MTB 8649/4, 1350 m alt., on *Fagus sylvatica*. – 6.VII.2001, leg. H. Mayrhofer (14527) & M. Magnes, det. H. Mayrhofer.

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278. *Normandina pulchella* (Borrer) Nyl.

AUSTRIA, Salzburg, Hohe Tauern, Glockner Gruppe, Kapruner Tal, Kesselfall, NW-exposed slopes, 47°13'00"N / 12°43'45"E, MTB 8742/3, 1040 m alt., mixed forest (with *Acer pseudoplatanus*), on bark of *Acer pseudoplatanus*. – 26.VIII.1996, leg. & det. J. Hafellner (47273).

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279. *Normandina pulchella* (Borrer) Nyl.

AUSTRIA, Salzburg, Nördliche Kalkalpen, Hagengebirge, Bluntauental W of Golling, 1 km SW of the Bluntauemühle, 47°34'35"N / 13°08'25"E, MTB 8444/2, 490 m alt., mixed forest (rich in *Picea abies*) near brookside, on *Salix* (at bars of the brook). – 1.IX.1996, leg. & det. J. Hafellner (47302).

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280. *Ochrolechia inaequatula* (Nyl.) Zahlbr.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Schleifkogel ENE above St. Johann am Tauern, N-facing slopes in summit area, 47°22'10"N / 14°29'55"E, MTB 8652/2, 2060 m alt., dwarf-shrub heath and outcrops, on bryophytes and plant debris. – 29.IX.2001, leg. & det. J. Hafellner (57328).

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281. *Opegrapha varia* Pers.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Liesing SW of Wald am Schoberpass, front part of the Ripplgraben, E below the former farm building 'Rippl in Reith', 47°24'50"N / 14°40'05"E, MTB 8554/3, 1020 m alt., remnants of a ravine forest with *Acer pseudoplatanus* and *Fraxinus excelsior*, on bark of *Fraxinus excelsior*. – 12.VII.2001, leg. & det. J. Hafellner (56219).

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282. *Parmelia saxatilis* (L.) Ach.

AUSTRIA, Kärnten (=Carinthia), Karawanken, Steiner Alpen, 11 km SSW of Bad Eisenkappel, Vellacher Kotschna, foot-path to Offnerhütte, 46°23'55"N / 14°34'10"E, MTB 9553/3, 980 m alt., mixed forest, on *Alnus incana*. – 09.VII.2003, leg. & det. W. Obermayer (10155).

Note: All issued specimens originate at one single thallus.

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283. *Parmotrema delicatulum* (Vain.) Hale

URUGUAY, Cerro Largo, Centurion Village, 7.5 km W of Paso Centurión, 32°07'S / 53°44'W, 50-75 m alt., on rocks on the cemetery. – 24./30.III.2002, leg. F. Scarabino (s.n.; ex herb. Osorio no 9560), det. H.S. Osorio in 2002.

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284. *Peltigera austroamericana* Zahlbr.

URUGUAY, Maldonado, Sierra de las Animas, Pozo Azul, 34°42'S / 55°17'W, wooded ravine, near a brook, on mossy rocks. – 3.XI.1963, leg. H.S. Osorio (5017), conf. O. Vitikainen (1986).

Note: Locally common.

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285. *Peltigera didactyla* (With.) J.R.Laundon

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Schleifgraben E above St. Johann am Tauern, 47°21'40"N / 14°29'05"E, MTB 8652/2, 1280 m alt., montane *Picea abies* forest, on soil-layer (over heap of pebbles). – 29.IX.2001, leg. & det. J. Hafellner (57547).

Note: With apothecia.

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286. *Peltigera frippii* Holtan-Hartwig

RUSSIA, Krasnoyarsk Territory (N of Central Siberia), Severnaya Zemlya, N coast of Bol'shevik Is., peninsula with Cape Baranov at E coast of Shokal'skii Strait, 79°16'N / 101°40'E, 40 m alt., gently rolling mesic to moist silt-gravelly plain with sparse graminoid-lichen-bryophyte vegetation, on bryophytes (abundant). – 20.VII.1996, leg. M. Zhurbenko (96821), det. O. Vitikainen (2003).

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287. *Peltigera praetextata* (Flörke ex Sommerf.) Zopf

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Untertal SE of Schladming, slopes N of the cascades of the Riesach, W below the Obere Gfölleralm, 47°19'45"N / 13°46'00"E, MTB 8648/4, 1300 m alt., *Picea* forest with some broad-leaved trees, on *Acer pseudoplatanus*. – 28.VIII.2001, leg. W. Obermayer (08548), det. O. Vitikainen (duplum in H, 2002).

Note: Isidia/phyllidia only very sparsely developed or almost missing.

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288. *Peltigera praetextata* (Flörke ex Sommerf.) Zopf

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 8.8 km W of Deutschlandsberg, 2 km E of Parfußwirt, 46°49'40"N / 15°06'00"E, MTB 9156/4, 1000 m alt., shadowed brookside in a *Picea abies* forest, on base area of *Acer pseudoplatanus*. – 14.VIII.2002, leg. & det. W. Obermayer (09334).

Note: All specimens with fruiting bodies.

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289. *Pertusaria bryontha* (Ach.) Nyl.

RUSSIA, Eastern Siberia, Yakutiya, Lena River delta, right bank of Olenek channel, 18 km WNW of Krest-Tumsa Cape at the north-western extremity of Primorskii Range, Kurungnaakh-Sise Island, Buor-Khaya urochishche, 72°20'N / 126°18'E, 40 m alt., moist lichen-moss tundra, on bryophytes in continuous lichen-moss mat (locally common). – 1.VIII.1998, leg. & det. M. Zhurbenko (98215a).

Note: Associated lichens are *Bryonora castanea*, *Psoroma hypnorum* and *Rinodina*.

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290. *Pertusaria coriacea* (Th.Fr.) Th.Fr.

RUSSIA, Krasnoyarsk Territory (N of Central Siberia), Severnaya Zemlya Archipelago, N extremity of Bol'shevik Island, W coast of Mikoyan Bay, 500 m away from the bay coast, 79°18'N / 101°55'E, 20 m alt., mesic to dry silt-gravelly flat coastal terrace with *Papaver*-graminoids-lichens-bryophytes vegetation, on bryophytes (abundant). – 21.VII.1996, leg. & det. M. Zhurbenko (96563).

Note: All thalli were orange-red coloured already before gluing the bark on the card.

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291. *Phaeocalicium populneum* (Brond. ex Duby) A.F.W.Schmidt

AUSTRIA, Steiermark (=Styria), Oststeirisches Hügelland, surrounding areas of Bad Gleichenberg, valley between Muhrn and Algegg, NE of Bairisch-Kölldorf, 46°52'50"N / 15°56'25"E, MTB 9161/2, 300 m alt., on treetop-twigs of *Populus nigra* (torn off by a storm). – 27.VI.2000, leg. & det. J. Hafellner (51885).

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292. *Phlyctis argena* (Spreng.) Flot.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Obertal S of Schladming, valley of Giglachbach, on the path to Lackneralm, 47°18'50"N / 13°41'10"E, MTB 8648/3, 1100 m alt., *Picea abies* forest with *Alnus incana* (wet bottom of a slope), on stem bark of dead *Alnus incana*. – 25.VIII.2001, leg. & det. W. Obermayer (10143).

Note: Parts of the thalli (or only soralia) were orange-red coloured already before gluing the bark on the card.

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293. *Placynthiella oligotropha* (J.R.Laundon) Coppins & P.James

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Gleinalpe, 9 km NW of Kainach bei Voitsberg, upper part of a ridge W above the spring of the brook Oswaldbach, 47°10'50"N / 14°59'25"E, MTB 8855/2, 1620 m alt., dwarf shrub heaths with single boulders and *Picea abies* (at the timber line), on duff. – 3.VI.2000, leg. & det. J. Hafellner (51333).

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294. *Porina lectissima* (Fr.) Zahlbr.

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Poßruck, 6.5 km SE of Eibiswald, S of Oberhaag, in a quarry called Hofstatt, 46°39'25"N / 15°19'00"E, MTB 9357/2, 520 m alt., green-schist (partly Calcium-influenced), on small outcrops (shady conditions). – 20.IX.2000, leg. & det. J. Hafellner (53820).

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295. *Protoblastenia calva* (Dicks.) Zahlbr.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, E-exposed slopes of Steirische Kalkspitze, between Akarscharte and Preuneggsattel, 47°16'55"N / 13°38'00"E, MTB 8747/2, 2050 m alt., alpine pioneer vegetation above schistouse limestone, on schistouse limestone. – 27.VIII.2001, leg. & det. W. Obermayer (10168).

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296. *Protomicarea limosa* (Ach.) Hafellner

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Seckauer Tauern, Großer Ringkogel NW of Knittelfeld, NE-facing slopes above Sundlsee, 47°19'30"N / 14°37'30"E, MTB 8653/4, 2060 m alt., gneissic outcrops and boulders, on earth. – 15.VIII.2001, leg. & det. J. Hafellner (56376).

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297. **Protothelenella corrosa** (Körb.) H.Mayrhofer & Poelt

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Gleinalpe, Mugel S of Niklasdorf, slopes E below Ochsenstall, 47°22'15"N / 15°11'25"E, MTB 8657/1, 1060 m alt., spruce forest, on shadowed, siliceous outcrops. – 06.X.2001, leg. & det. J. Hafellner (57287).

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298. **Pseudocyphellaria aurata** (Ach.) Vain.

URUGUAY, Maldonado, Cerro del Aguila (near Aiguá City), 34°12'S / 54°45'W, 120 m alt., on bark (locally common). – 30.XI.2002, leg. F. Scarabino (s.n.; ex herb. Osorio no 9611), det. H.S. Osorio 2002.

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299. **Pseudosagedia aenea** (Wallr.) Hafellner & Kalb

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Gleinalpe, Holzgraben S of Bruck an der Mur, surrounding area of Kalte Quelle, 47°23'20"N / 15°16'00"E, MTB 8657/2, 620 m alt., mixed forest (near a brook), on bark of *Acer pseudoplatanus*. – 6.XI.1999, leg. & det. J. Hafellner (50570).

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300. **Punctelia canaliculata** (Lynge) Krog

URUGUAY, Cerro Largo, Cañada del Vichadero and Rio Yaguarón (near Paso Centurión), 32°07'S / 53°44'W, 50-75 m alt., on trees and shrubs (marginal forest). – 24./30.III.2002, leg. F. Scarabino (s.n.9; ex herb. Osorio no 9562), det. H.S. Osorio 2002.

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301. *Pyrrhospora quernea* (Dicks.) Körb.

GREECE, East Aegean Islands, Nomos Dodekanisou, Kos Island, Kefalos peninsula, near top of Mt Latra, 36°43'N / 26°57'E, 300 m alt., *Erica manipuliflora* dwarfshrub vegetation on SW-facing slope with scattered low *Pinus brutia* trees and siliceous rock outcrops, on trunk of *Pinus brutia*. – 22.IX.2000, leg. H. Sipman (47007) & Th. Raus, det. H. Sipman.

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302. *Ramalina celastri* (Spreng.) Krog & Swinscow

ARGENTINIA, Misiones, San Ignacio, Pastoreo Chico, 27°19'S / 55°22'W, 275 m alt., open forest, on trunk and branches of indigenous trees. – 20.II.1956, leg. J.E. Montes (10096; ex herb. Osorio no 4753), det. H.S. Osorio (1988).

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303. *Ramalina farinacea* (L.) Ach.

AUSTRIA, Oberösterreich (=Upper Austria), Nördliche Kalkalpen, Reichraminger Hintergebirge, 15.5 km SSE of Reichraming, Weißwasser N below Mooshöhe, 47°45'20"N / 14°31'45"E, MTB 8253/1, 650 m alt., ravine forest (close to the brook), on bark of *Fraxinus excelsior*. – 14.X.2000, leg. & det. J. Hafellner (52889).

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304. *Ramalina farinacea* (L.) Ach.

[chemotype with protocetraric acid]

AUSTRIA, Kärnten (=Carinthia), Karawanken, 9 km SW of Bad Eisenkappel, Trögener Klamm, confluence of the rivulets Koschutabach and Trögenerbach, near the inn Franzl, 46°27'10"N / 14°29'20"E, MTB 9552/2, 750 m alt., brookside with broad-leaved trees, on *Alnus*. – 24.V.2003, leg. & det. W. Obermayer (10131).

Note: All specimens with apothecia. TLC (all specimens examined): Protocetraric acid.

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305. *Ramalina laevigata* Fr.

URUGUAY, Rocha, 57 km NE of Rocha City, Cerro de los Rocha, 34°09'15"S / 53°51'35"W, 100 m alt., northern slope of a hill, on rocks. – 25.IV.2003, leg. H.S. Osorio (9640) & G. Geymonat, det. H.S. Osorio (2003).

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306. *Ramalina laevigata* Fr.

URUGUAY, Rocha, Cerro de la Buena Vista, 34°22'S / 53°46'W, on granitic boulder. – 17.XI.2001, leg. F. Scarabino (s.n.; ex herb. Osorio no 9555), det. H.S. Osorio (2002).

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307. *Ramalina sprengelii* Krog & Swinscow

URUGUAY, Cerro Largo, Cañada El Barón, 35 km NNE of Melo City, 32°22'S / 54°11'W, 80 m alt., on branches of trees. – 4/9.IV.2002, leg. F. Scarabino (s.n.; ex herb. Osorio no 9594), det. H.S. Osorio (2002).

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308. *Ramalina sprengelii* Krog & Swinscow

URUGUAY, Cerro Largo, Cañada del Vichadero and Rio Yaguarón, near Paso Centurión, 32°07'S / 53°44'W, on trees and shrubs. – 30.III.2002, leg. F. Scarabino (s.n.; ex herb. Osorio no 9559), det. H.S. Osorio (2002).

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309. *Relicina abstrusa* (Vain.) Hale

URUGUAY, Rocha, Sierra de San Miguel, Cerro de la Guardia Perdida, 33°42'S / 53°34'W, 100 m alt., on perpendicular, N-exposed rock faces. – 11.VI.1989, leg. & det. H.S. Osorio (9011).

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310. **Rhizocarpon umbilicatum** (Ramond) Flagey

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, E-exposed slopes of Steirische Kalkspitze, between Akarscharte and Preuneggsattel, 47°16' 55"N / 13°38'00"E, MTB 8747/2, 2050 m alt., alpine pioneer vegetation above schistose limestone, on schistose limestone. – 27.VIII.2001, leg. & det. W. Obermayer (10169).

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311. **Rinodina gennarii** Bagl.

UNITED KINGDOM, Scotland, Moray District, Lighthouse between Lossiemouth and Hopeman S of Covesea Skerries, 57°43'10"N / 03°20'15"E, 0 - 5 m alt., on coastal rocks. – 8.VIII.1995, leg. H. Mayrhofer (13982) & E. Mayrhofer, det. H. Mayrhofer.

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312. **Rinodina milvina** (Wahlenb.) Th.Fr.

AUSTRIA, Kärnten (=Carinthia), Latschurgruppe SW of 'Spittal an der Drau', SE-exposed steep rock faces of the mountain Goldeck, above the car-park, 46°45'09"N / 13°27'28"E, MTB 9246/2, 1950 m alt., on schistose rocks. – 21.VIII.1991, leg. & det. H. Mayrhofer (14583).

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313. **Schismatomma albocinctum** (Nyl.) Zahlbr.

FRANCE, Corse, 4 km NW of Bonifacio, Ermitage de la Trinité, UTM 32TNL1083, 150 m alt., granite rock outcrops and low forest, on dry, lower twigs of trees. – 16.IV.1999, leg. & det. H. Sipman (43885).

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314. **Stereocaulon dactylophyllum** Flörke

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Untertal SE of Schladming, N-exposed base of Krügerzinken, 47°21'20"N / 13°42'10"E, MTB 8648/1, 1000 m alt., boulder field with *Pinus mugo* and crippled *Larix decidua*, on inclined faces of siliceous boulders. – 18.VII.2001, leg. J. Hafellner (57191) & M. Magnes, det. J. Hafellner.

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315. **Sticta weigelii** (Ach.) Vain.

URUGUAY, Maldonado, Cerro del Aguila (near Aiguá city), 34°12'S / 54°45'W, 120 m alt., on mossy trunks. – 30.XI.2002, leg. F. Scarabino (s.n.; ex herb. Osorio no 9615), det. H.S. Osorio (2003).

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316. **Stigidium schaeferi** (Massal.) Trevis.

[lichenicolous fungus on *Dacampia hookeri*]

AUSTRIA, Kärnten (=Carinthia), Karawanken, Koschuta, 11 km SE of Ferlach, foot-path from Koschutahaus to base of Koschutnikturm, 46°26'53"N / 14°24'07"E, MTB 9552/3, 1700 m alt., limestone scree with outcrops, on earthy crevices. – 07.VII.2003, leg. & det. W. Obermayer (10146).

Note: All specimens intermixed with *Solorina bispora* var. *macrospora*.

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317. **Teloschistes villosus** (Ach.) Norman

SPAIN, Canary Islands, Lanzarote, gently exposed slopes NE of Mirador del Rio, N of the village Ye, 29°12'50"N / 13°28'50"W, 470 m alt., shrubless pasture grounds (exposed to trade-wind), on twigs and excavated roots of sub-shrubs. – 4.IV.1999, leg. & det. J. Hafellner (47460) & A. Hafellner.

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318. *Thamnolia vermicularis* (Sw.) Schaer. s.str.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Rippetegg SW of Schladming, ridge area between Rippetegg and Gasselhöhe, exactly W of the lake Obersee, 47°20'35"N / 13°35'55", MTB 8647/4, 2060 m alt., wind exposed ridge, on ground. – 26.VIII.2001, leg. & det. W. Obermayer (10152).

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319. *Thelopsis isiaca* Stizenb.

GREECE, East Aegean Islands, Nomos Dodekanisou, Kos Island, Kefalos peninsula, 4 km S of Kefalos, near road to Agios Theologos (Sunset beach), 36°43.3'N / 26°56.3'E, 100 m alt., Abandoned fields with scattered low trees of *Juniperus oxycedrus* ssp. *macrocarpa* in fields and *Phrygana* dwarfshrub vegetation, on *Juniperus*. – 23.IX.2000, leg. H. Sipman (47112) & Th. Raus, det. H. Sipman (2001).

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320. *Tuckneraria laureri* (Kremp.) Randle & Thell

CHINA, Tibet, prov. Sichuan, Tibetan fringe mountains (=Hengduan Shan), Shaluli Shan, 50 km S of Litang, road from Cogsum to Sumdo, 29°33'05"N / 100°17'25"E, 4270 m alt., boulder field (big siliceous rocks) with *Potentilla*, *Caragana*, *Salix*, *Juniperus*, on bryophytes (over siliceous rock). – 7.VIII.2000, leg. & det. W. Obermayer (09687).

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321. *Usnea amblyoclada* (Müll.Arg.) Zahlbr.

URUGUAY, Maldonado, Sierra de la Coronilla, 35 km NW of Rocha City, 20 km SE of Aiguá, near Cerro Catedral, Posada La Laguna, 34°21'S / 54°38'W, on rocks. – 28.I.2001, leg. F. Scarabino (s.n.; ex herb. Osorio no 9426), det. H.S. Osorio (2001).

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322. *Usnea angulata* Ach.

URUGUAY, Cerro Largo, Rio Yaguaron, Paso Centurión, 32°07'S / 53°44'W, 50-75 m alt., marginal forest, on trees and shrubs. – 24./30.III.2002, leg. F. Scarabino (s.n.8; ex herb. Osorio no 9561), det. H.S. Osorio 2002.

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323. *Usnea angulata* Ach.

URUGUAY, Cerro Largo, Cañada El Barón, 35 km NNE of Melo City, 32°22'S / 54°11'W, 80 m alt., indigenous forest, on branches of trees. – 4/9.IV.2002, leg. F. Scarabino (s.n.; ex herb. Osorio no 9595), det. H.S. Osorio (2002).

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324. *Usnea angulata* Ach.

ARGENTINIA, Misiones, San Ignacio, Pastoreo Chico, 27°19'S / 55°22'W, 275 m alt., on branches of indigenous trees. – 17.II.1956, leg. J.E. Montes (10077a; ex herb. Osorio no. 5169), det. H. Osorio 1999.

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325. *Usnea dasaea* Stirton

BRASIL, Parana, Guayrá, 24°04'S / 54°15'W, open forest, on branches of trees. – 13.V.1956, leg. J.E. Montes (10141E; ex herb. Osorio no 4360), det. P. Clerc (2001; dupl in G).

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326. *Usnea densirostra* Taylor

URUGUAY, Rocha, Cerro de la Buena Vista, 34°22'S / 53°46'W, on granitic boulder. – 17.XI.2001, leg. F. Scarabino (s.n.; ex herb. Osorio no 9556), det. H.S. Osorio (2002).

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327. *Vulpicida tubulosus* (Schaer.) J.-E.Mattson & M.J.Lai

AUSTRIA, Kärnten (=Carinthia), Karawanken, Hochobir, 8 km WNW of Bad Eisenkappel, summit-area of Hochobir, 46°30'18"N / 14°29'12"E, MTB 9452/4, 2130–2140 m alt., ridge-area (NNE-exposed faces), on ground (over limestone). – 08.VII.2003, leg. & det. W. Obermayer (10147).

Note: All specimens intermixed with *Thamnolia subuliformis*.

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328. *Xanthoparmelia conspersa* (Ehrh. ex Ach.) Hale

AUSTRIA, Steiermark (=Styria), Mürtzaler Alpen, SW-facing spur of the ridge E of St. Michael, N of the widely visible warrior memorial, 47°20'10"N / 15°01'35"E, MTB 8656/3, 630 m alt., short, SE-exposed boulders (mica slate) in a *Pinus sylvestris* forest, on sun-exposed, inclined rock faces. – 13.V.1999, leg. & det. J. Hafellner (48538).

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329. *Xanthoria elegans* (Link) Th.Fr.

RUSSIA, Krasnoyarsk Territory (N of Central Siberia), Severnaya Zemlya Archipelago, NW extremity of Bol'shevik Island, W-coast of Akhmatov Bay, 10 km S of the Bazovaya river mouth, 1 km away from the bay coast, 79°03'N / 102°42'E, 60 m alt., silt-gravelly gently inclined foot of a mountain, in semi-dried bed of a stream, on mineral soil (abundant). – 16.VII.1996, leg. & det. M. Zhurbenko (96380).

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330. *Xanthoria fallax* (Hepp) Arnold

ITALY, Trentino-Alto Adige, prov. Bolzano (=Südtirol), Val Venosta (=Vinschgau), Glorenza (=Glurns), near the eastern ancient town gate, 46°40'15"N / 10°33'25"E, 940 m alt., on NW-exposed faces of solitary *Populus* spec. (at the roadside). – 3.IX.2002, leg. & det. W. Obermayer (10177).

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