

Dupla Graecensia Lichenum (1999)

Walter OBERMAYER*

OBERMAYER, W. 1999: Dupla Graecensia Lichenum (1999). - Fritschiana 21: 13 - 30. Graz. - ISSN 1024-0306

Abstract: Dupla Graecensia Lichenum (1999) contains 70 collections of lichen-doublets (including 6 lichenicolous fungi) from Australia (New South Wales; Tasmania), Austria (Carinthia; Salzburg; Styria; Tirol; Upper Austria), Brazil (Parana), Chile (Magallanes y Antártica Chilena), China (Tibet, prov. Xizang), Greece (Crete), Italy (Tuscany; Trentino/Alto-Adige), Mexico (Baja California Sur), Mongolia (Govi Altai), New Zealand (South Island), Russia (Severnaya Zemlya), Spain (Canary Islands), Uruguay (Artigas; Canelones; Lavalleja; Maldonada; Rocha) and U.S.A. (Idaho). Isotypes of *Arthonia digitatae* HAFELLNER, *Arthonia tavaresii* GRUBE & HAFELLNER, and topotypes of *Calicium isabellinum* TIBELL and *Mycocalicium anomalum* TIBELL are distributed. TLC-results are presented for *Buellia fimbriata*, *Calicium isabellinum*, *Cladonia bellidiflora*, *Dimelaena oreina*, *Micarea lignaria*, *Ochrolechia upsaliensis*, *Phaeorrhiza nimbosea*, *Rinodina canariensis*, *R. murrayii*, *R. thiomela* and *Thamnolia vermicularis* var. *vermicularis*. *Bryonora stipitata* and *Umbilicaria yunnana* are issued as a part of the results of the 'Sino-German Joint Expedition to Southeastern and Eastern Tibet 1994'..

*Walter OBERMAYER, Institut für Botanik, Karl-Franzens-Universität Graz, Holteigasse 6, A-8010 Graz, AUSTRIA
phone: ++43 316 380 5658; fax: ++43 316 380 9883
e-mail: walter.obermayer@kfunigraz.ac.at
homepage: <http://www-ang.kfunigraz.ac.at/~oberma/home.htm>

Dupla Graecensia Lichenum (1999), issued by the herbarium of the Institute of Botany of the Karl-Franzens-University, Graz, Austria (internat. abbr.: GZU), includes lichens and lichenicolous fungi from all over the world with five to ten doublets of each collection. Every institution receiving a duplicate is cited (at the bottom line of every 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) will receive 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://django.harvard.edu:/huh/author.html>. Dupla Graecensia Lichenum is kept as text version under <http://www-ang.kfunigraz.ac.at/~oberma/dupl-graec.htm>.

I am grateful to the following collectors for their contributions to the second issue of 'Dupla Graecensia Lichenum': L. AMARAL de GAMBARDILLA, BEYHAUT, BONIFACINO, Peter CHILD (†), Clere B. DAVIS, Bernhard DICKORÉ, Jack ELIX, Roland ERTL, Angela & Josef HAFELLNER, Hannes HERTEL, Eleonore HIERZER, IZAGUIRRE, Klaus KALB, Harald KOMPOSCH, Willibald MAURER, Helmut MAYRHOFER, Colin D. MEURK, Georg & Sabine MIEHE, A. MONES, J.E. MONTES, Markus MÖSLINGER, Héctor S. OSORIO, Roger ROSENRETER, Herwig TEPPNER, Roman TÜRK, Alois WILFLING, Helmut WITTMANN, Claudia ZEINER, and Mikhail P. ZHURBENKO. The field work in Tibet was supported by the Austrian Science Fund (P09663-BIO).

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

31. *Acarospora sinopica* (WAHLENB.) KÖRB.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Wölzer Tauern, Walchen Graben SE of Öblarn, S-facing slopes E of the Bergkreuzkapelle, 1250 m alt., 47°25'40"N/14°04'E, MTB 8550/3, mine dump of a historical chalcopyrite-mining, on small, ore-bearing slabs of mica schist. – 10.VI.1998, leg. & det. J. HAFELLNER (47218) & M. MÖSLINGER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

32. *Agonimia opuntiella* (BUSCHARDT & POELT) VĚZDA

[Syn: *Physcia opuntiella* BUSCHARDT & POELT]

AUSTRIA, Kärnten (=Carinthia), Villach, near Warmbad-Villach, Dobratsch, Tscheltschnigkogel, 100 m SE of the entry to the cave called Eggerloch, S-facing sheer rock walls (limestone), 46°35'34"N/13°49'05"E, 620 m alt., MTB 9448/2, on bryophytes (e.g. *Orthotrichum anomalum*). – 25.VIII.1997, leg. H. KOMPOSCH (2272) & A. WILFLING, det. H. KOMPOSCH.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

33. *Arthonia digitatae* HAFELLNER - ISOTYPE

[lichenicolous fungus on *Cladonia digitata*]

AUSTRIA, Steiermark (=Styria), Eisenerzer Alpen, Sebringgraben S of Johnsbach, just N below the Wolfsbacher Niederalp, 1050 m alt., 47°31'20"N/14°36'10"E, MTB 8453/4, *Fagus-Acer*-forest above limestone, on shadowed, rotten stumps. – 22.VIII.1997, leg. & det. J. HAFELLNER (46588).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

34. *Arthonia peltigerina* (ALMQ.) H.OLIVIER

[lichenicolous fungus on *Solorina crocea*]

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2800 - 2850 m alt., on mineral rich soil. – 4.IX.1998, leg. W. OBERMAYER (7859), det. J. HAFELLNER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

35. *Arthonia radiata* (PERS.) ACH.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Liesing SW of Wald am Schoberpaß, between the farm-steeds Habenbacher and Reichstaller, 47°25'10"N/14°38'40"E, MTB 8553/4, 1080 m alt., *Alnus incana* stands along a rivulet, on twigs of *Sorbus aucuparia*. – 28.XI.1999, leg. & det. J. HAFELLNER (50063).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

36. *Arthonia tavaresii* GRUBE & HAFELLNER - ISOTYPE

[lichenicolous fungus on thallus of *Pyrenula* spec.]

SPAIN, Islas Canarias, Tenerife, Macizo de Anaga, Montes de las Mercedes, by the deviating to El Moquinal NE above Las Mercedes, 28°31'30"N/16°17'W, 880 m alt., on trunks of evergreen trees.. – 8.XI.1989, leg. J. & A. HAFELLNER (23619), det. J. HAFELLNER.

Note: Further isotypes have already been issued (sub exsiccata number 255) by SANTESSON, R. (1998): Fungi Lichenicoli Exsiccati. - Thunbergia 28: 1 - 19. - Holotype in GZU.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

37. *Bacidia alutacea* (KREMP.) ZAHLBR.

URUGUAY, depto. Canelones, Parque Nacional "F.D.Roosevelt", 34°50'S/56°03'W, on *Eucalyptus camaldulensis*. – 6.I.1969, leg. & det. H.S. OSORIO (6841).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

38. *Biatorella hemisphaerica* ANZI

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, Ködnitztal NE above Kals, right N above the Lucknerhütte, 2300 m alt., MTB 8942/3, 47°02'35"N/12°41'30"E, low rocks of limestone-schist in W-facing alpine pioneer formation, on soil. – 4.IX.1998, leg. & det. J. HAFELLNER (46772).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

39. Bryonora stipitata POELT

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 345 km E of Lhasa, 20 km NE of Nyingchi, 5 km E of the pass, near the timber line, 29°38'N/94°42'E, 4200 - 4300 m alt., *Juniperus-(Abies)*-forest with siliceous boulders, on soil. – 26.VIII.1994, leg. & det. W. OBERMAYER (7604).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

40. Buellia fimbriata (TUCK.) SHEARD

SPAIN, Islas Canarias, Tenerife, Teno mountains, NW below the Teno Alto, path down to the northern coast, above Las Casas, E of Punta de Teno, 28°21'05"N/16°54'20"W, 400 m alt., succulent scrub, on volcanic outcrops. – 16.XII.1998, leg. H. MAYRHOFER (13813) & J. HAFELLNER, det. H. MAYRHOFER.

Note: All specimens with associated *Dimelaena radiata* (TUCK.) MÜLL.ARG. - TLC: 3-chloro-divaricatic acid.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

41. Buellia megapotamica MALME

URUGUAY, depto. Rocha, La Esmeralda, Route 9, road-km 285.5, ~34°12'S/53°52'W, on *Pyracantha* spec. (cult.). – 27.XII.1997, leg. A. MONES (s.n.; herbarium MVM no. 2459), det. H.S. OSORIO.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

42. Buellia megapotamica MALME

URUGUAY, depto. Canelones, Balneario Guazú Virá, 34°28'S/55°54'W, on trunk of *Pinus* spec. – 6.X.1984, leg. & det. H.S. OSORIO (8421).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

43. Calicium isabellinum TIBELL - TOPOTYPE

CHILE, Magallanes y Antártica Chilena, Península de Brunswick, 52 km S of Punta Arenas, Fuerte Bulnes, *Nothofagus*-forest, 53°37'S/70°57'W, 100 m alt., on rotten wood. – 5.I.1981, leg. K. KALB (32727), det. L. TIBELL (1997).

Note: TLC (Tibell): Isousnic acid.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

44. Candelariella plumbea POELT & VĚZDA

AUSTRIA, Kärnten (=Carinthia), Villach, near Warmbad-Villach, Dobratsch, S-facing slopes of Tscheltschnigkogel, Eggerloch, open scrub with *Ostrya carpinifolia*, *Quercus robur*, and *Pinus sylvestris*, 46°35'33"N/13°49'08"E, 620 m alt., on S-facing sheer rock walls (limestone). – 25.VIII.1997, leg. H. KOMPOSCH (2255) & A. WILFLING, det. H. KOMPOSCH.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

45. Catolechia wahlenbergii FLOT.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9 km W of Obdach, path from Lindersee to Zirbitzkogel, 50 m S of Lindersee, 47°04'13"N/14°34'11"E, MTB 8953/1, 2100 m alt., steep N-facing slopes with silicate outcrops, on rock-covering bryophytes on wet, sheer rock walls. – 22.VIII.1999, leg. & det. W. OBERMAYER (7768).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

46. Cercidospora verrucosaria (LINDS.) ARNOLD

[lichenicolous fungus on *Megaspora verrucosa*]

AUSTRIA, Steiermark (=Styria), Nördliche Kalkalpen, Totes Gebirge, area of Tauplitzalm, NE of Bad Mitterndorf, Barltrücken N above the Steirersee, 47°37'25"N/14°01'55"E, MTB 8350/3, 2130 m alt., wind-edge of the summit area (Caricetum firmae), on plant debris. – 4.VII.1999, leg. & det. J. HAFELLNER (48906).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

47. Chaenothecopsis kalbii TIBELL & K.RYMAN

[lichenicolous fungus on *Lecanora caesiorubella*]

MEXICO, Baja California Sur, NE of Puerto Cancún, at turnoff to El Cocuyo, 21 road-km SW of Highway 1, 24°35'N/111°42'W, 40 m alt., coastal plain with desert scrub, on bark of *Jatropha*. – 19.II.1993, leg. J. & A. HAFELLNER (44903), det. J. HAFELLNER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

48. *Cladia aggregata* (SW.) NYL.

URUGUAY, Lavalleja, Arroyo Marmarajá and route 8, road-km 162, 10 km N of Aiguá town, 34°12'S/54°45'W, on rocks. – 22.VIII.1976, leg. L. AMARAL DE GAMBARELLA (MVM no 17731), det. H.S. OSORIO, 1976, conf. T. AHTI, 1979.

Note: Barbatic acid strain.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

49. *Cladina confusa* (R.SANT.) FOLLMANN & AHTI f. *confusa*

URUGUAY, depto. Maldonado, small unnamed road between Route 39 and Route 109 near Sierra de las Cañas, slope of a small hill, 34°32'S/54°49'W, on ground between rocks. – 13.VIII.1998, leg. IZAGUIRRE, BEYHAUT & BONIFACINO (s.n.; herbarium OSORIO no. 9359), det. H.S. OSORIO, dupl. confirm. T. AHTI 1998.

Note: Locally common

distributed to: **BG, CANB, GZU, H, M, MIN, NY, TNS, UPS, US**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

50. *Cladina stygia* (FR.) AHTI

AUSTRIA, Steiermark (=Styria), Ennstal, 7.5 km ENE of Liezen, 0.5 km SE of Pürgschachen, Pürgschachenmoos, 47°35'N/14°20'30"E, 8452/1, 640 m alt., bog, on marshy soil (with *Sphagnum* spec. div., *Polytrichum strictum*, *Drosera rotundifolia*). – 20.VIII.1999, leg. & det. W. OBERMAYER (7787).

distributed to: **BG, CANB, GZU, H, M, NY, UPS, US**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

51. *Cladonia bellidiflora* (ACH.) SCHAER.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10.5 km W of Obdach, path from Großer Winterleitensee via Ochsenboden to Kreiskogel, 47°05'N/14°33'36"E, MTB 8953/1, 2000 m alt., alpine meadows with boulders, between bryophytes on steep faces of a moos-covered, small boulder. – 24.VIII.1999, leg. & det. W. OBERMAYER (7792).

Note: TLC: Usnic acid, squamatic acid, rhodocladonic acid (in apothecia), two unknown yellow pigments. Associated with *Cladonia crispata* var. *cetrariiformis* (TLC: squamatic acid).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

52. *Coccocarpia erythroxyli* (SPRENG.) SWINSCOW & KROG

CHINA, Tibet, prov. Xizang, Tibetan Himalaya, Everest E, 13 km NNE of Makalu, Kama Chu, Sakyetang to Kangchung Glacier (Camp Ev4-5), 27°59'N/87°10'E, 4430 m alt., alpine *Rhododendron-Sorbus* scrub, on bryophytes. – 23.X.1989, leg. B. DICKORÉ (K-77-9), det. W. OBERMAYER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

53. *Cyphelium pinicola* TIBELL

AUSTRIA, Steiermark, Seetaler Alpen, 10 km WNW of Obdach, path from Winterleitenhütte to Speikkogel, 1860 m alt., 47°05'38"N/14°33'50"E, MTB 8953/1, open forest with *Pinus cembra* (*Picea abies*, *Larix decidua*), near timberline, on wood of overthrown *Pinus cembra* (±vertical faces). – 24.VIII.1999, leg. & det. W. OBERMAYER (7771).

Note: P.p. associated with *Cyphelium tigillare*, *Lecanora mughicola*, *Lecanora varia*, *Ramboldia insidiosa*.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

54. *Dacampia engeliana* (SAUT.) A.MASSAL. [lichenicolous fungus on *Solorina* spec.]

AUSTRIA, Tirol, Osttirol, Hohe Tauern, Glocknergruppe, Ködnitztal NE above Kals, right N above the Lucknerhütte, 2300 m alt., MTB 8942/3, 47°02'35"N/12°41'30"E, low rocks of limestone-schist in W-facing alpine pioneer formation, on bryophytes and plant-debris. – 4.IX.1998, leg. & det. J. HAFELLNER (46748)

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

55. *Dibaeis baemyces* (L.fil.) RAMBOLD & HERTEL

AUSTRIA, Kärnten (=Carinthia), Gurktal, 10 km E of Gnesau, 46°47'N/14°02'E, MTB 9250/1, 980 m alt., S-exposed slopes of a forest road. – 10.IX.1998, leg. H. MAYRHOFER (13719) & C. ZEINER, det. H. MAYRHOFER

distributed to: **BG, CANB, E, GZU, H, M, MIN, NY, UPS**

Walter OBERMAYER: Dupla Graecensia Lichenum (1999) (in Fritschiana 21) distributed by the <i>Institut für Botanik, Karl-Franzens-Universität, Graz, Austria</i> [GZU]
56. Dimelaena oreina (ACH.) NORM. chemotype V
U.S.A. , Idaho, Clark county, 100 km NW of Idaho Falls, Skull Canyon E of Birch Creek Valley, 44°09'N/112°54'W, 2050 m alt., on limestone. – 31.VII.1999, leg. H. MAYRHOFER (13881), R. ROSENRETER & C.B. DAVIS, det. H. MAYRHOFER. <u>Note:</u> TLC: Usnic acid, stictic acid, norstictic acid (tr.), hypoconstictic acid (tr.).
distributed to: CANB, GZU, M, MIN, NY, UPS

Walter OBERMAYER: Dupla Graecensia Lichenum (1999) (in Fritschiana 21) distributed by the <i>Institut für Botanik, Karl-Franzens-Universität, Graz, Austria</i> [GZU]
57. Dimerella pineti (ACH.) VĚZDA
AUSTRIA , Oberösterreich (=Upper Austria), Kalkalpen National Park, Reichraminger Hintergebirge, 5.8 km SSW of Reichraming, Zöbelboden, 47°50'N/14°26'E, 920 m alt., MTB 8152, on bark of <i>Picea abies</i> . – 3.VIII.1999, leg. & det. R. TÜRK (28146).
distributed to: BG, CANB, E, ESS, GZU, H, M, MIN, NY, UPS

Walter OBERMAYER: Dupla Graecensia Lichenum (1999) (in Fritschiana 21) distributed by the <i>Institut für Botanik, Karl-Franzens-Universität, Graz, Austria</i> [GZU]
58. Diploschistes muscorum (SCOP.) R.SANT. [p.p. lichenicolous on <i>Cladonia pyxidata</i>]
AUSTRIA , Steiermark (=Styria), Murberge, Stolzalpe, 1.2 km NE of Murau, shortly SE of the chapel, 47°07'10"N/14°11'25"E, MTB 8851/3, clearance in a mixed forest with conifers, on saxicolous bryophytes. – 13.V.1999, leg. & det. J. HAFELLNER (48947).
distributed to: CANB, GZU, M, NY, UPS

Walter OBERMAYER: Dupla Graecensia Lichenum (1999) (in Fritschiana 21) distributed by the <i>Institut für Botanik, Karl-Franzens-Universität, Graz, Austria</i> [GZU]
59. Fulgensia bracteata (HOFFM.) RÄSÄNEN var. alpina (Th.FR.) RÄSÄNEN
AUSTRIA , Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2800 - 2850 m alt., on mineral rich soil. – 4.IX.1998, leg. W. OBERMAYER (7158), det. Th. KASALICKY, 1999.
distributed to: CANB, GZU, M, NY, UPS

Walter OBERMAYER: Dupla Graecensia Lichenum (1999) (in Fritschiana 21) distributed by the <i>Institut für Botanik, Karl-Franzens-Universität, Graz, Austria</i> [GZU]
60. Melanelia fuliginosa (FR. ex DUBY) ESSL.
AUSTRIA , Steiermark (=Styria), Nördliche Kalkalpen, 13.5 km W of Mariazell, Yppstaler Alpen, Geißangergraben, E-exposed slopes, 47°45'35"N/15°08'15"E, MTB 8256/2, 1140 m alt., primeval forest with <i>Fagus sylvatica</i> , <i>Abies alba</i> , and <i>Picea abies</i> , on bark of <i>Acer pseudoplatanus</i> . – 7.VII.1999, leg. & det. J. HAFELLNER (47187).
distributed to: CANB, GZU, M, NY, UPS

Walter OBERMAYER: Dupla Graecensia Lichenum (1999) (in Fritschiana 21) distributed by the <i>Institut für Botanik, Karl-Franzens-Universität, Graz, Austria</i> [GZU]
61. Micarea lignaria (ACH.) HEDL.
AUSTRIA , Steiermark (=Styria), Seetaler Alpen, 9 km W of Obdach, path from Lindersee to Zirbitzkogel, 50 m S of Lindersee, 47°04'13"N/14°34'11"E, MTB 8953/1, 2100 m alt., steep N-facing slopes with silicate outcrops, on decayed bryophytes and plant debris (at the base of overhanging rock walls). – 22.VIII.1999, leg. & det. W. OBERMAYER (7784).
<u>Note:</u> TLC: Argopsin
distributed to: CANB, GZU, M, NY, UPS

Walter OBERMAYER: Dupla Graecensia Lichenum (1999) (in Fritschiana 21) distributed by the <i>Institut für Botanik, Karl-Franzens-Universität, Graz, Austria</i> [GZU]
62. Mycocalicium anomalum TIBELL - TOPOTYPE
CHILE , Magallanes y Antártica Chilena, Península de Brunswick, 52 km S of Punta Arenas, Fuerte Bulnes, <i>Nothofagus</i> -forest, 53°37'S/70°57'W, 100 m alt., on rotten wood. – 5.I.1981, leg. K. KALB (32726), det. L. TIBELL (1998).
distributed to: CANB, GZU, M, NY, UPS, hb. KALB

Walter OBERMAYER: Dupla Graecensia Lichenum (1999) (in Fritschiana 21) distributed by the <i>Institut für Botanik, Karl-Franzens-Universität, Graz, Austria</i> [GZU]
63. Ochrolechia upsaliensis (L.) A.MASSAL.
AUSTRIA , Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2800 - 2900 m alt., on mineral rich soil. – 4.IX.1998, leg. & det. W. OBERMAYER (7862).
distributed to: CANB, ESS, GZU, M, MIN, NY, UPS

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

64. *Ochrolechia upsaliensis* (L.) A.MASSAL.

ITALY, Trentino/Alto-Adige, Dolomiten, Hochalpe W of Innerprags, Lapadures Joch, above the huts of Hochalpe, 46°43'N/12°E, 2250 m alt., alpine meadows, on ground. – 13.VII.1998, leg. H. MAYRHOFER (13774) & H. TEPPNER, det. H. MAYRHOFER.

Note: TLC (Kosnik & Mayrhofer): Variolaric acid.

distributed to: **BG, CANB, ESS, GZU, M, MIN, NY, UPS**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

65. *Omphalina hudsoniana* (JENN.) BIGELOW

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10,5 km W of Obdach, path from Großer Winterleitensee via Ochsenboden to Kreiskogel, 2000 m alt., 47°05'N/14°33'36"E, MTB 8953/1, on peaty soil and decaying bryophytes on the front of a small boulder. – 24.VIII.1999, leg. & det. W. OBERMAYER (7770).

Note: All specimens with basidiomata.

distributed to: **BG, CANB, E, F, GZU, H, M, NY, UPS**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

66. *Peltigera venosa* (L.) HOFFM.

AUSTRIA, Tirol, Osttirol, Hohe Tauern, Glocknergruppe, Ködnitztal, path from Lucknerhaus to Lucknerhütte, 47°02'10"N/12°41'35"E, MTB 8942/3, 2100 m alt., slope of road in alpine meadows, on soil. – 4.IX.1998, leg. & det. W. OBERMAYER (7863).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

67. *Phaeophyscia orbicularis* (NECK.) MOBERG f. *hueiana* (HARM.) CLAUZADE & CI.ROUX

AUSTRIA, Steiermark (=Styria), Oststeirisches Hügelland, 14 km E of Weiz, 3 km S of Stubenberg am See, parking side of the zoo 'Herberstein', 420 m alt., 47°13'N/15°49'E, MTB 8760/4, on *Malus domestica*. – 3.VIII.1997, leg. & det. W. OBERMAYER (7747).

Note: Forma *hueiana* is characterized by the presence of skyrin (K+ purple) in soralia and medulla.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

68. *Phaeorrhiza nimbosa* (FR.) H.MAYRHOFER & POELT

RUSSIA, Severnaya Zemlya, N part of Bolshevik Island, western coast of Akhmatov Bay, 7 km SW of the mouth of Bazovaia River, 100 - 200 m away from the bay coast, flat coastal terrace, 79°04'N/102°45'E, 20 m alt., fine to medium gravel with silt, on soil. – 15.VII.1996, leg. & det. M. ZHURBENKO (96290-2).

Note: TLC: Variolaric acid, unknow yellow pigment, unknow related to variolaric acid (2/4-5/2), fatty acid (5/5-6/5), unknowns (between 4 and 7).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

69. *Phaeorrhiza nimbosa* (FR.) H.MAYRHOFER & POELT

ITALY, Trentino/Alto-Adige, Dolomiten, Hochalpe W of Innerprags, Lapadures Joch, above the huts of Hochalpe, 46°43'N/12°E, 2250 m alt., alpine meadows, on ground. – 13.VII.1998, leg. H. MAYRHOFER (13775) & H. TEPPNER, det. H. MAYRHOFER.

Note: TLC (Kosnik & Mayrhofer): Variolaric acid.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

70. *Physconia grisea* (Lam.) Poelt

ITALY, Toscana, Chianti, 30 km SE of Firenze, San Donato in Poggio, 43°32'N/11°14'E, 400 m alt., roadside close to the cemetery, on *Cupressus sempervirens*. – 30.IV.1999, leg. & det. H. MAYRHOFER (13888).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

71. *Protoblastenia aurata* POELT & VĚZDA

AUSTRIA, Salzburg, Nördliche Kalkalpen, Hochkönigmassiv, 13.5 km WSW of Bischofshofen, 4.5 km NE of Dienten, summit-area of Taghaube, 2150 m alt., 47°24'10"N/13°02'50"E, MTB 8544/3, on S-exposed, vertical rocks (limestone). – 4.VIII.1996, leg. & det. H. WITTMANN (s.n.).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

72. Pseudosagedia aenea (WALLR.) HAFELLNER & KALB
[all specimens associated with *Porina leptalea* (DURIEU & MONT.) A.L.SM.]

AUSTRIA, Steiermark (=Styria), Weststeirisches Riedelland, Sulmtal, 7.5 km NE of Eibiswald, 500 m SE of Pöfing, below Trixen, N-facing slope of the river Weiße Sulm, 46°43'30"N/15°19'E, MTB 9257/4, 320 - 380 m alt., on *Acer pseudoplatanus*. – 30.V.1999, leg. W. MAURER, det. W. OBERMAYER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

73. Ramalina capitata (ACH.) NYL.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9.7 km ESE of Neumarkt, 1.6 km ENE of Tonnerhütte, 0.3 km E of Moar, 47°03'17"N/14°33'05"E, MTB 8953/1, 1820 m alt., alpine meadows with siliceous boulders, on mica slate (bird rock). – 5.IX.1999, leg. & det. W. OBERMAYER (7789).

distributed to: **BG, CANB, E, GZU, H, M, MIN, NY, TNS, UPS**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

74. Ramalina celastri (SPRENG.) KROG & SWINSCOW

BRASIL, Parana, Puerto Guayrá, 24°04'S/54°15'W, open forest, on branches of trees. – 12.V.1956, leg. J.E. MONTES (10141.i.), det. H.S. OSORIO (4364).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

75. Ramalina laevigata FR.

URUGUAY, depto. Rocha, Fortaleza de Santa Teresa, 33°59'S/53°32'W, on rocks. – 20.II.1967, leg. H.S. OSORIO (5695), det. H. KASHIWADANI, 1989.

Note: Locally very common.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

76. Ramalina usnea (L.) HOWE

URUGUAY, depto. Artigas, 132 km WSW of Artigas, Arroyo El Tigre and Río Uruguay, gallery forest of the Uruguay river, 30°47'S/57°47'W, on shrubs. – 5.XII.1975, leg. & det. H.S. OSORIO (7271).

distributed to: **CANB, E, GZU, M, MIN, NY, TNS, UPS**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

77. Ramalina usnea (L.) HOWE

URUGUAY, depto. Rocha, 114 km NE of Rocha, Sierra de San Miguel, Cerro de la Guardia Perdida, 33°42'S/53°34'W, on branches of shrubs. – 11.VI.1989, leg. & det. H.S. OSORIO (9182).

distributed to: **BG, CANB, E, GZU, H, M, MIN, NY, TNS, UPS**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

78. Rhizoplaca melanophthalma (DC.) LEUCKERT & POELT

SPAIN, Islas Canarias, Tenerife, N-facing slopes of Cañadas-Caldera, N below Degollada de Guajara, 28°13'05"N/16°36'W, 2300 - 2350 m alt., on volcanic boulders. – 15.XII.1998, leg. & det. J. HAFELLNER (46376)

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

79. Rinodina canariensis MATZER, H.MAYRHOFER & P.CLERC

SPAIN, Islas Canarias, Tenerife, Teno mountains, NW below the Teno Alto, path down to the north-coast, above Las Casas, E of Punta de Teno, 28°21'05"N/16°54'20"W, 400 m alt., succulent scrub, on volcanic outcrops. – 16.XII.1998, leg. H. MAYRHOFER (13812) & J. HAFELLNER, det. H. MAYRHOFER.

Note: TLC: Atranorin, gyrophoric acid, lecanoric acid.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

80. Rinodina confragosula (NYL.) MÜLL.ARG.

AUSTRALIA, Tasmania, Fingal Valley, Avoca, W-shore of St. Paul's River, 200 m alt., 41°47'S/147°43'E, on dolerite rocks in open pasture. – 6.VIII.1992, leg. H. MAYRHOFER (12079) & E. HIERZER, det. H. MAYRHOFER.

distributed to: **BC, CANB, GZU, H, HO, M, NY, UPS**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

81. Rinodina gennarii BAGL.

NEW ZEALAND, South Island, Marlborough, Kaikoura Peninsula, SE of Kaikoura, W of Whaler's Bay, 42°26'S/173°43'E, on coastal rocks. – 31.VIII.1992, leg. H. MAYRHOFER (12206) & C.D. MEURK.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

82. Rinodina luridata (KÖRB.) H.MAYRHOFER, SCHEID. & SHEARD

AUSTRALIA, New South Wales, Googong Dam Foreshore Reserve, 18 km S of Queanbean, Londonbridge, 670 m alt., 35°31'S/149°16'E, on limestone. – 26.VII.1992, leg. H. MAYRHOFER (11307) & J.A. ELIX, det. H. MAYRHOFER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

83. Rinodina murrayii H.MAYRHOFER

NEW ZEALAND, South Island, Otago, Central-Otago, Old Man Range, Obelisk Range, 18 km SW of Alexandra, 45°19'S/169°12'E, 1670 m alt., on schists. – 3.II.1985, leg. H. MAYRHOFER (10514), H. HERTEL & P. CHILD, det. H. MAYRHOFER.

Note: TLC (Wippel): Atranorin, pannarin.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

84. Rinodina murrayii H.MAYRHOFER

AUSTRALIA, New South Wales, Crookwell, 10 km NW of Crookwell, on the road to Binda, 34°24'S/149°23'E, 830 m alt., along a small creek, on schists. – 25.VII.1992, leg. H. MAYRHOFER (10997) & E. HIERZER, det. H. MAYRHOFER.

Note: New to New South Wales; TLC (Wippel 1994): Pannarin.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

85. Rinodina thiomela (NYL.) MÜLL.ARG.

AUSTRALIA, Tasmania, Midland Highway, Dysart, N of Bagdad, 42°35'S/147°13'E, 250 m alt., on sandstone cliffs. – 6.VIII.1992, leg. H. MAYRHOFER (12070) & E. HIERZER, det. H. MAYRHOFER.

Note: TLC: Thiomelin, unknown triterpenoid (5-6/5-6).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

86. Rinodina tunicata H.MAYRHOFER & POELT

GREECE, Crete, Nomós Chaníon, 1 km S of Imbros, road to Hora Sfakion, above the entrance of the gorge Imbros, 35°15'N/24°10'E, 800 m alt., E-exposed calcareous rocks. – 13.V.1997, leg. H. MAYRHOFER (13749) & R. ERTL, det. H. MAYRHOFER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

87. Sarcosagium campestre (FR.) POETSCH & SCHIED.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9 km E of Neumarkt, 1.8 km NE of Tonnerhütte, small path from Siegmundhütte to Kulmer Hütte, walls of a decayed chalet (named "Franzbauer"), 47°04'00"N/14°32'39"E, MTB 8953/1, 1810 m alt., high montane forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on thalli of *Peltigera* and *Cladonia*, and on decayed plants. – 7.IX.1999, leg. W. OBERMAYER (7794), det. J. HAFELLNER.

Note: P.p. associated with *Steinia geophana*.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

88. Solorina bispora NYL. ssp. bispora

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 11 km SW of Judenburg, Schusterleiten, 47°05'40"N/14°33'20"E, MTB 8953/1, 2000 - 2100 m alt., SE-exposed marble-outcrops, on soil. – 7.VII.1991, leg. & det. W. OBERMAYER (7174).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

89. Solorina octospora ARNOLD

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2800 - 2850 m alt., on mineral rich soil. – 4.IX.1998, leg. & det. W. OBERMAYER (7861).

distributed to: **BG, CANB, E, GZU, H, M, MIN, NY, UPS**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

90. *Solorina spongiosa* (ACH.) ANZI

AUSTRIA, Tirol, Osttirol, Hohe Tauern, Glocknergruppe, Ködnitztal, path from Lucknerhaus to Lucknerhütte, 47°02'10"N/12°41'35"E, MTB 8942/3, 2100 m alt., slope of road in alpine meadows, on soil. – 4.IX.1998, leg. & det. W. OBERMAYER (7860).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

91. *Stereocaulon nanodes* TUCK.

AUSTRIA, Salzburg, Hohe Tauern, Granatspitzgruppe, Stubachtal, Einzingerboden, near the drain of the Grünsee, just south of the base station of the cablecar, 1500 m alt., 47°10'20"N/12°37'40"E, MTB 8841/2, subalpine *Picea-abies/Larix-decidua*-forest, on gneissic boulders in a creek bed. – 28.VIII.1996, leg. & det. J. HAFELLNER (47218).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

92. *Teloschistes chrysophthalmus* (L.) Th.FR.

SPAIN, Islas Canarias, Tenerife, Teno-Mountains, W of Teno Alto, 28°20'35"N/16°52'40"W, 700 - 750 m alt., pasture-ground at the ridge, on dead twigs of *Chamaecytisus proliferus*. – 16.XII.1998, leg. & det. J. HAFELLNER (46463)

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

93. *Teloschistes flavicans* (SW.) NORMAN

URUGUAY, depto. Rocha, Laguna Castillos and Arroyo Valizas, marginal forest of the Castillos lake, 34°20'S/53°54'W, on *Scutia buxifolia*. – 19.II.1967, leg. & det. H.S. OSORIO (5593 B).

Note: Locally common.

distributed to: **BC, BG, CANB, E, GZU, H, M, MIN, NY, UPS**

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

94. *Thamnolia vermicularis* (SW.) SCHAER. var. *vermicularis*

CHINA, Tibet, prov. Xizang, Tibetan Himalaya, Everest E, 12 km ENE of Makalu, Kama Chu, Makalu E Glacier tongue, lateral moraine, 27°56'N/87°13'E, 3830 m alt., upper montane *Larix himalaica* forest on moraine, sandy soil with boulders, on ground. – 26.X.1989, leg. B. DICKORÉ (K-90-10), det. W. OBERMAYER.

Note: TLC: Thamnolic acid, fatty acid (?/1(-2)/1-2). - Thallus-colour with UV₃₆₆: dark red.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

95. *Thrombium epigaeum* (PERS.) WALLR.

AUSTRIA, Kärnten (=Carinthia), Gurktal, 10 km E of Gnesau, 46°47'N/14°02'E, MTB 9250/1, 1000 m alt., slopes of a forest road. – 10.IX.1998, leg. H. MAYRHOFER (13720) & C. ZEINER, det. H. MAYRHOFER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

96. *Tuckneraria laureri* (KREMP.) RANDLANE & THELL

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 13,5 km W of Deutschlandsberg, along the road from Glashütten to Weinebene, 46°49'50"N/15°02'30"E, MTB 9156/4, 1350 m alt., montane spruce forest with *Picea abies*, *Abies alba*, *Larix decidua*, on *Picea abies*. – 14.VIII.1999, leg. & det. W. OBERMAYER (7762).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

97. *Umbilicaria hirsuta* (SW. ex WESTR.) HOFFM.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9,7 km ESE of Neumarkt, 1.6 km ENE of Tonnerhütte, 0.3 km E of Moar, 47°03'17"N/14°33'05"E, MTB 8953/1, 1820 m alt., alpine meadows with siliceous boulders, on mica slate (bird rock). – 5.IX.1999, leg. & det. W. OBERMAYER (7791).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

98. *Umbilicaria yunnana* (NYL.) HUE

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 370 km E of Lhasa, near the bend of the river Tsangpo, N-side of the mountain Gyala Peri, between the villages Tongjug and Tangmai, 30°01'N/94°58'E, 2300 - 2400 m alt., deciduous trees along the river, on *Populus/Fraxinus*. – 23.VIII.1994, leg. & det. W. OBERMAYER (7033).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

99. *Usnea densirostra* TAYLOR

URUGUAY, depto. Maldonada, Sierra de las Animas, Cañada de la Barra del Ombú, meadow along the road to the Mirador Nacional, 34°46'S/55°19'W, 50 - 100 m alt., on rocks.. – 3.XII.1967, leg. & det. H.S. OSORIO (5113).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

100. *Xanthoparmelia camtschadalis* (ACH.) HALE

MONGOLIA, Gobi Altai, S-Gobi Aimag, Dzuun Saikhan, Yoliin Am catchment, 43°29'N/104°04'E, 2300 - 2500 m alt., meadow steppe on N-facing slope, little grazed, on soil. – 7.II.1996, leg. G. & S. MIEHE (96-003-20), det. W. OBERMAYER.

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

Corrigendum:

Walter OBERMAYER: **Dupla Graecensia Lichenum (1998)** (in Fritschiana 16)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

3. *Chaenothecopsis kalbii* TIBELL & K.RYMAN - PARATYPE [lichenicolous fungus on thallus and apothecia of *Lecanora caesiorubella*]

AUSTRALIA, Queensland, Tandora, about 25 km ENE of Maryborough, 25°27'S/152°52'E, at sea level, on mangroves. – 23.VIII.1986, leg. J. HAFELLNER (17926) & R. ROGERS, det. L. TIBELL.

Note: Paratypes from the same locality have already been issued (sub exsiccata-number 259) by SANTESSON, R. (1998): *Fungi Lichenicoli Exsiccati*. – *Thunbergia* 28: 1 - 19.

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

Note: The name of the first author (TIBELL) has erroneously been given in parenthesis.