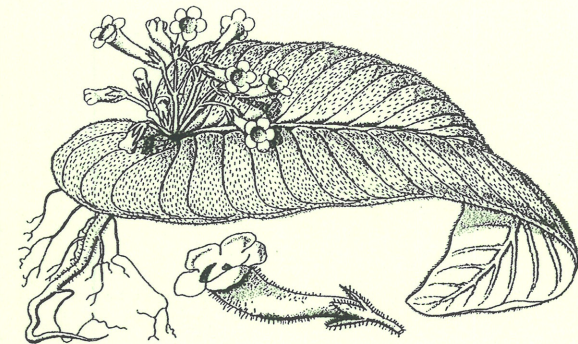


ISSN 1024-0306

# FRITSCHIANA

16



Veröffentlichungen aus dem Herbarium  
des Institutes für Botanik  
der Karl-Franzens-Universität Graz (GZU)

Walter OBERMAYER

**Lichenotheca Graecensis, Fasc. 6 (Nos 101 - 120)**

**Dupla Graecensia Lichenum (1998)**

Graz, 20. Dezember 1998

Accredited by the *INTERNATIONAL ASSOCIATION FOR PLANT TAXONOMY* (IAPT) for the purpose of registration of new names of vascular plants (excluding fossils), fungi (including fossils) and other plants (including fossils).

Diese Zeitschrift ist bei der *INTERNATIONAL ASSOCIATION FOR PLANT TAXONOMY* (IAPT) für die Registrierung neuer Namen nicht-fossiler Gefäßpflanzen, Pilze (inklusive Fossilien) und anderer Pflanzen (inklusive Fossilien) akkreditiert.

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

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

Nachrufe: KNOLL F. 1934, Ber. Deutsch. Bot. Ges. 51: (157) - (184) (mit Schriftenverzeichnis). - KUBART B. 1935, Mitt. Naturwiss. Ver. Steiermark 71: 5 - 15 (mit Porträt). - TEPPNER H. 1997, Mitt. Geol. Paläont. Landesmus. Joanneum (Graz) 55: 133 - 136. - Im übrigen vgl. STAFLEU F.A. & COWAN R.S. 1976, Tax. Lit. 1: 892 und BARNHART J.H. 1965, Biogr. Notes Botanists 2: 12.

Graz, November 1997

H. TEPPNER

Die Serie FRITSCHIANA wurde als Publikationsorgan für die zahlreichen Aktivitäten im Zusammenhang mit der botanischen Sammlung des Institutes für Botanik der Karl-Franzens-Universität Graz (GZU) gegründet. Vor allem zahlreiche Schedae-Hefte der von den Mitarbeitern herausgegebenen Exsiccatenwerke werden hier erscheinen, aber auch Listen und Indices besonders wertvoller Bestände in GZU sowie Exkursionsberichte. Die Schedae-Hefte des von Prof. Dr. Josef POELT begründeten, inzwischen abgeschlossenen Exsiccatenwerkes *Plantae Graecenses* sind die Vorläufer dieser Schriftenreihe.

Gesamtredaktion: Prof. Dr. Herwig TEPPNER  
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ISSN 1024-0306

Key title = Abbreviated title: Fritschiana (Graz)

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

# FRITSCHIANA

Veröffentlichungen aus dem Herbarium  
des Institutes für Botanik  
der Karl-Franzens-Universität Graz (GZU)

16

Walter OBERMAYER

**Lichenotheca Graecensis, Fasc. 6 (Nos 101 - 120)**

pp. 1 - 6

**Dupla Graecensia Lichenum (1998)**

pp. 7 - 14

Graz, 20. Dezember 1998

Accredited by the *INTERNATIONAL ASSOCIATION FOR PLANT TAXONOMY* (IAPT) for the purpose of registration of new names of vascular plants (excluding fossils), fungi (including fossils) and other plants (including fossils).

Diese Zeitschrift ist bei der *INTERNATIONAL ASSOCIATION FOR PLANT TAXONOMY* (IAPT) für die Registrierung neuer Namen nicht-fossiler Gefäßpflanzen, Pilze (inklusive Fossilien) und anderer Pflanzen (inklusive Fossilien) akkreditiert.

## Lichenotheca Graecensis, Fasc. 6 (Nos 101 - 120)

Walter OBERMAYER\*

OBERMAYER, W. 1998: Lichenotheca Graecensis. Fasc. 6 (Nos 101 - 120). - Fritschiana 16: 1 - 6. Graz. - ISSN 1024-0306

**Abstract:** Lichenotheca Graecensis (Fasc. 6) comprises 20 lichen collections from the following countries (and administrative subdivisions): Austria (Salzburg, Styria, Tirol, Upper Austria), Brazil (Santa Catarina), China (Tibet, prov. Xizang), Germany (Niedersachsen), Portugal (Madeira), Slovakia, Uruguay (Canelones). Noteworthy are fruiting material of *Lasallia pustulata* (from Upper Austria) and the unusual substrate of *Porina aenea* (stems of *Equisetum hyemale*). TLC-investigations have been carried out for *Oropogon orientalis*, *Rinodina atrocineria* and *R. olivaceobrunnea*. The issue of *Heterodermia hypoleuca* and *Oropogon orientalis* is 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  
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The exsiccata series Lichenotheca Graecensis is edited in 20 sets and distributed on an exchange basis to the following herbaria and private collections (herbarium abbreviations after HOLMGREN, P.K., HOLMGREN, N.H. & BARNETT, L.C. 1990: Index Herbariorum, Part I. The herbaria of the world, Ed. 8. Regnum Vegetabile Vol. 120): ASU, B, C, CANB (from now on all sets formerly sent to ANUC will be transmitted to herbarium CANB), CANL, E, ESS, G, GZU, H, HMAS, LE, M, MAF, MIN, O, TNS, UPS, Dr. K. Kalb, Dr. A. Vězda. Abbreviations of authors of plant names follows BRUMMITT, R. K. & POWELL, C. E. 1992: Authors of Plant Names. Kew, Royal Botanic Gardens. (Also available as internet database under: <http://django.harvard.edu/huh/author.html>). An internet-online version of Lichenotheca Graecensis is accessible under: <http://www-ang.kfunigraz.ac.at/~oberma/li-grz1.htm>.

I am very grateful to the following collectors who have contributed material to the sixth fascicle: Tassilo FEUERER, Erwin GRUBER, Angela & Josef HAFELLNER, Marietta KOCH, Zuzana KYSELOVA, Martin MAGNES, Helmut MAYRHOFER, Héctor S. OSORIO, Josef POELT (†), Robert REITER, Adolf SCHRÖPPEL (†), Eva B. TIMPE, Roman TÜRK. Special thanks are due to Ulf ARUP, Ulrik SØCHTING and Theodore L. ESSLINGER for determination and/or confirmation of doublets. The expedition of the author to southeastern Tibet in 1994 was kindly supported by the 'Fonds zur Förderung der wissenschaftlichen Forschung, Projekt P09663-BIO'.

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Key title = Abbreviated title: Fritschiana (Graz)

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Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**101. Bryoria bicolor (EHRH.) BRODO & D. HAWKSW.**

AUSTRIA, Steiermark (=Styria), Eisenerzer Alpen, Stadelstein SW of Eisenerz, N below the summit on the ridge between Stadelstein and Schwarzenstein, 47°29'35"N/14°51'30"E, MTB 8555/1, 1880 m alt., alpine meadows above paleozoic limestone-schist, on bryophytes and decaying plants.

5.IX.1997 leg. J. HAFELLNER (43286) & A. HAFELLNER, det. J. HAFELLNER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**102. Calicium lenticulare ACH.**

PORTUGAL, Ilhas da Madeira, Madeira, along the road from Ribeira Brava to São Vicente, 1 km N below the pass Boca da Encumeada, 32°45'N/ 17°01'W, 900 m alt., laurel forest, on *Erica arborea*.

12.II.1990 leg. J. HAFELLNER (27036) & A. HAFELLNER, det. J. HAFELLNER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**103. Caloplaca holocarpa (HOFFM. ex ACH.) A.E. WADE**

AUSTRIA, Steiermark (=Styria), 4 km E of the city-border of Graz, 2,5 km SW of Hönigtal, Äußere Ragnitz, 47°04'45"N/15°32'30"E, MTB 8959/1, 450 m alt., on cut down *Fraxinus excelsior* (at about 10 m stem height). - Note: Some samples show apothecia which are arranged in concentric rings. The only (p.p.) associated lichen is *Xanthoria parietina*.

21.III.1998 leg. & det. W. OBERMAYER (6856),  
dupl. confirm. U. ARUP & U. SØCHTING

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**104. Cladonia didyma (FÉE) VAIN.**

URUGUAY, Dpto. Canelones, Colinas de Solymar, along the L. Giannattasio Ave. (street-km 28), 34°48'S/55°52'W, *Pinus* plantation, on sandy soil.

10.I.1994 leg. & det. H.S. OSORIO (9342)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**105. Heterodermia hypoleuca (MUHL.) TREVIS.**

CHINA, Tibet, prov. Xizang, Nyainqentanglha Shan, 350 km E of Lhasa, SSW-branches of the mountain Gyala Peri, 29°36'N/94°44'E, 3650 - 3750 m alt., flood plain area along a small rivulet, on *Salix* spec.

24.VIII.1994 leg. & det. W. OBERMAYER (6759)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**106. Lasallia pustulata (L.) MÉRAT**

AUSTRIA, Oberösterreich (=Upper Austria), Mühlviertel, 12 km NW of Rohrbach, Kollerschlag, Hochstein, 48°36'N/13°51'E, MTB 7349, 820 m alt., on granite. - Note: all issued specimens bear fruiting bodies.

1.V.1997 leg. & det. R. TÜRK (22397)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**107. Lasallia pustulata (L.) MÉRAT**

AUSTRIA, Steiermark (=Styria), Stubalpe, Teigitschgraben S of Voitsberg, 2,5 km NE of Langmannsperre, 590 m alt., 46°59'45"N/15°07'30"E, MTB 9056/2, on steep, S-exposed rock surfaces.

3.IX.1997 leg. & det. H. MAYRHOFER (13600)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**108. Melanelia hepatizon (ACH.) THELL**

Syn.: *Cetraria hepatizon* (ACH.) VAIN.

AUSTRIA, Salzburg, Lungau, Schladminger Tauern, path from Prebersee to the Preberkessel, E of the Preberhalterhütte, 47°12'N/13°52'E, MTB 8749, 1810 m alt., on garnet-mica-schist. - Note: all specimens fertile.

21.VI.1997 leg. & det. R. TÜRK (23190)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**109. Micarea prasina FR.**

AUSTRIA, Steiermark (=Styria), 9 km WNW of Bruck an der Mur, Floning-Zug, Kotzgraben 4 km NW of St. Dionysen, end of a valley floor, NW below a farmstead called Brandner, 47°26'N/15°09'40"E, MTB 8556/4, 880 m alt., *Picea*-forest, on strongly decayed stumps.

28.V.1990 leg. J HAFELLNER (43132) & A. HAFELLNER, det. J. HAFELLNER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**110. Mycobilimbia sphaeroides (DICKS.) ined.**

AUSTRIA, Oberösterreich (=Upper Austria), 8.5 km S of Gosau, 200 m N of Hinterer Gosau-See, 47°30'30"N/13°32'30"E, 1130 m alt., MTB 8447, on bryophytes and bark of *Acer pseudoplatanus*.

13.V.1998 leg. & det. R. TÜRK (25361) & R. REITER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**111. Oropogon orientalis (GYELN.) ESSL.**

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 *Rhododendron* spec. – Note: all specimens are fertile and intermixed with *Usnea longissima*; - TLC: placodiolic acid (every single herbarium specimen tested; it is remarkable, that the spot-height of placodiolic acid in solvent system 'A' strongly depends on the concentration of the lichen substance).

9.VIII.1994 leg. W. OBERMAYER (5134), dupl. det. T. ESSLINGER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**112. Physconia enteroxantha (NYL.) POELT**

AUSTRIA, Steiermark (=Styria), Oststeirisches Hügelland, 1 km NW of Fürstenfeld, area of the open air swimming pool, 47°03'30"N/16°04'E, MTB 8962/1, 260 m alt., slope of river banks, on *Salix* spec. – Note: p.p. intermixed with *Physconia perisidiosa*.

15.VIII.1997 leg. & det. W. OBERMAYER (6532)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**113. Porina aenea (WALLR.) ZAHLBR.**

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Gleinalpe, 5 km SE of Leoben, Kleingößgraben, 47°21'15"N/15°08'33"E, MTB 8656/2, 750 m alt., bank of a rivulet, on (mostly) living stalks of *Equisetum hyemale*!

26.IV.1998 leg. & det. E. GRUBER (s.n.)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**114. Rinodina atrocinerea (HOOK.) KÖRB.**

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, Teigitschgraben S of Voitsberg, 2.5 km NE of the Langmannsperre, 46°59'45"N/15°07'30"E, MTB 9056/2, 580 m alt., on steep inclined rockface at about 15 m above ground. – Note: p.p. associated lichens: *Dimelaena oreina*, *Lasallia pustulata*, *Umbilicaria hirsuta*, *Xanthoparmelia conspersa*. HPTLC (ERTL & MAYRHOFER): atranorin, gyrophoric acid, lecanoric acid.

3.IX.1997 leg. & det. H. MAYRHOFER (13270)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**115. Rinodina olivaceobrunnea (C.W. DODGE) G.E. BAKER**

SLOVAKIA, Poprad, Vysoké Tatry, Zadná dolina, Sediello below Maly Ladový štít, W-exposed slopes below the ridge, 49°13'N/20°06'E, 2370 - 2390 m alt., on bryophytes and decaying plants. – Note: TLC (PUCHER & MAYRHOFER) Pannarin.

11.IX.1991 leg. H. MAYRHOFER (13699), M. KOCH, Z. KYSELOVA, M. MAGNES & E.B. TIMPE, det. E.B. TIMPE

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

**116. Steinia geophana (NYL.) STEIN**

GERMANY, Niedersachsen, Reg.-Bezirk Lüneburg, Kreis Harburg, Beckedorf, border of a sandpit, ~53°25'N/9°58'E, MTB 6221, 80 m alt., on clay ground (free of subsoil).

22.III.1998 leg. & det. T. FEUERER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

### 117. *Umbilicaria crustulosa* (ACH.) FREY

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 11 km SW of Judenburg, W of Winterleitenhütte, SE-facing slopes between Kreiskogel and Speikkogel, amphibolitic outcrops between tall forbs and *Alnus alnobetula*-shrubs, 47°05'30"N/14°33'30"E, MTB 8953/1, 1900 m alt., on leachate-wet rock, 50° - 70° inclined, p.p. shadowed by *Alnus alnobetula*. - Note: Associated macrolichens: *Umbilicaria cylindrica*, *U. hirsuta*.

10.VII.1998

leg. & det. W. OBERMAYER (7104)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

### 118. *Umbilicaria microphylla* (LAURER) A. MASSAL.

AUSTRIA, Salzburg, Hohe Tauern, Venediger-Gruppe, N of Kürsingerhütte, 47°07'30"N/12°18'E, MTB 8839, 2600 m alt., on gneissic boulders.

6.VIII.1997

leg. & det. R. TÜRK (23191) & R. REITER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

### 119. *Umbilicaria virginis* SCHAER.

AUSTRIA, Tirol, Ötztaler Alpen, 27 km S of Imst, Kaunergrat, summit of the Watzespitze, 46°59'30"N/10°47'40"E, MTB 9030, 3530 m alt., on north facing steep rocks. - Note: Exsiccata-material from the same locality has been collected 8 years later (VIII.1961) by T. SCHAUER and H. ULLRICH and has already been distributed in *Lichenes Alpium* 162.

19.VIII.1953

leg. J. POELT & A. SCHRÖPPEL (s.n.), det. J. POELT

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 6 (1998, in Fritschiana 16) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz* [GZU]

### 120. *Usnea densirostra* TAYLOR

BRAZIL, Santa Catarina State, Laguna, Praia do Gi, 100 m S of the Laguna Tourist Hotel, near the top of a small hill, ocean-faced E slope, ~28°29'S/48°45'W, 50 m alt., on flat stones. - Note: locally very common; all specimens fertile.

26.III.1997

leg. & det. H.S. OSORIO (9332)

## Dupla Graecensia Lichenum (1998)

Walter OBERMAYER\*

OBERMAYER, W. 1998: Dupla Graecensia Lichenum (1998). - Fritschiana 16: 7 - 14. Graz. - ISSN 1024-0306

**Abstract:** Thirty collections of lichen-doublets (including the paratypes of the lichenicolous fungus *Chaenothecopsis kalbii*) from Australia (Queensland), Austria (Lower Austria; Salzburg; Styria; Upper Austria), China (Tibet, prov. Xizang), Finland (Keski-Suomi, Uusimaa), France (Sarthe), Germany (Bavaria), Italy (Trentino-Alto-Adige), Mexico (Baja California), Mongolia (Govi Altai), Spain (Canary Islands), and U.S.A. (Arizona) are distributed in 'Dupla Graecensia Lichenum (1998)'. *Dimerella isidiata*, *Epilichen scabrosus*, *Hypogymnia hypotrypa*, *Megalospora sulphurata* var. *sulphurata* and *Sticta sublimbata* 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  
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'Dupla Graecensia Lichenum' is a series for the distribution and publication of lichen collections (including lichenicolous fungi) with small and irregular numbers of specimens (min: 5, max: 10). It will be issued by the herbarium of the Institute of Botany of the Karl-Franzens-University, Graz, Austria (internat. abbr.: GZU). Every institution receiving a duplicate is cited (at the bottom line of every label) with its international herbarium-abbreviation (see HOLMGREN, P.K., HOLMGREN, N.H. & BARNETT, L.C. 1990: Index Herbariorum, Part I. The herbaria of the world, Ed. 8. - Regnum Vegetabile Vol. 120). Five herbaria (CANB, GZU, M, NY, UPS) will get all distributed species continuously. To make every single specimen unique and thus easier to cite, the abbreviation of the herbarium, where the specimen should be housed, is underlined on the labels.

The main purposes of the new series are to publish noteworthy floristical data on lichens and lichenicolous fungi (from all over the world in general and from Austria in particular) as well as to accommodate duplicates of valuable collections in other herbaria, making them better accessible to scientists and protecting them from being entirely destroyed (e.g., in case of fire). A yearly issue of the collection of doublets (sorted in alphabetical order) is projected.

I am much indebted to the persons listed below, who have contributed collections for the first issue of 'Dupla Graecensia Lichenum': Thomas FEUERER, Josef HAFELLNER, Claudia MARTH, Helmut MAYRHOFER, Georg and Sabine MIEHE, Josef POELT (†), Franz PRIEMETZHOFFER, Adolf SCHRÖPPEL (†). Additional determinations or confirmations were kindly carried out by Franz BERGER, Josef HAFELLNER and Helmut MAYRHOFER. Tibetan collections of lichens have been made in 1994 on the occasion of the 'Sino-German-Joint-Expedition on Environmental and Climatic Changes and Mountain Hazards in Southeastern and Eastern Tibet', which partly has been sponsored by the 'Fonds zur Förderung der wissenschaftlichen Forschung, Projekt P09663-BIO'.

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

### 1. *Arthonia leucopellaea* (ACH.) ALMQ.

AUSTRIA, Steiermark (=Styria), Eisenerzer Alpen, Flitzenschlucht N of Gais-  
horn, near the Goldloch, 47°31'N/14°32'45"E, MTB 8453/3, 1000 m alt., *Fagus-  
Abies-Picea*-forest, on bark of *Abies alba*. – 1.V.1998, leg. & det. J. HAFELLNER  
(45149)

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

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

### 2. *Calicium viride* PERS.

AUSTRIA, Niederösterreich (=Lower Austria), Nördliche Kalkalpen, Göl-  
ler-Gruppe, southfacing slopes of Weißmauer E of the Lahnsattel, 47°46' 30"N/  
15°31'30"E, MTB 8259/1, 1000 m alt., *Fagus-Abies*-forest, on bark of *Abies  
alba*. – 22.V.1998, leg. & det. J. HAFELLNER (45300).

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

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 - Paratypes [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. HAFELL-  
NER (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.

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### 4. *Cyphelium lucidum* (Th.FR.) Th.FR.

GERMANY, Bayern (=Bavaria), Bayerische Alpen, Ammer Gebirge, 6.5 km SE  
of Füssen, valley of the rivulet Pöllat, near Bleckenau, 47°32'N/10°47'E, 1370 m  
alt., on *Abies*. – 28.VIII.1968, leg. A. SCHRÖPPEL, det. W. OBERMAYER.

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### 5. *Dendrographa leucophaea* (TUCK.) DARB.

MEXICO, Baja California, west coast between Guerrero Negro and Rosarito,  
Laguna Manuela, 12 km W of Villa Jesús María, hills NW above the beach,  
28°15'N/114°07'W, 20 - 50 m alt., on branches of *Jatropha*. – 21.II.1993, leg. J.  
HAFELLNER (44416) & A. HAFELLNER, det. J. HAFELLNER.

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### 6. *Dimelaena oreina* (ACH.) NORM.

chemotype V (= usnic acid, stictic acid, norstictic acid)

AUSTRIA, Steiermark (=Styria), Stubalpe, Teigitschgraben S of Voitsberg, 2.5  
km NE of the Langmannsperre, S-facing steep rocky slopes, 46°59'45"N/  
15°07'30"E, MTB 9056/2, 560 - 590 m alt., on rock. – 3.IX.1997, leg. & det. H.  
MAYRHOFER (13570).

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### 7. *Dimerella isidiata* THOR & VĚZDA

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 350 km E of Lhasa, SSW-  
branches of the mountain Gyala Peri, 29°36'N/94°44'E, 3650 - 3750 m alt., flood  
plain area along a small rivulet, on *Juniperus* spec. – 25.VIII.1994, leg. & det.  
W. OBERMAYER (6758).

Note: The development of isidia is rather variable (from strongly isidiata to almost not isidiata).

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### 8. *Epilichen scabrosus* (ACH.) CLEM.

[parasitic lichen on *Baeomyces rufus*]

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, 13 km  
WNW of Köflach, 700 m NNW of Altes Almhaus, 47°05'10"N/14°55'20"E, MTB  
8955/2, 1580 m alt., slope of a forestry road, on soil. – 10.X.1997, leg. & det.  
W. OBERMAYER (6527).

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**9. Epilichen scabrosus (ACH.) CLEM.**

[parasitic lichen on *Baeomyces cf. pachypus*]

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 (6834).

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**10. Heterodermia leucomelos (L.) POELT**

SPAIN, Islas Canarias, El Hierro, Mirador de Basco (Mirador de El Rincon), W above Sabinosa, upper edge of SW-exposed steep rocks, 27°45'10"N/18°07'W, 660 m alt., on basaltic outcrop. - 5.II.1995, leg. & det. J. HAFELLNER (45585).

Note: associated with *Teloschistes flavicans*.

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**11. Hypogymnia hypotrypa (NYL.) RASS.**

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 350 km E of Lhasa, 20 km E of Nyingchi, valley which drains in direction to the village Tongjug, forest area with *Picea-Abies*-forest, 29°36'N/94°44'E, 3800 m alt., on *Abies* spec. - 27.VIII.1994, leg. & det. W. OBERMAYER (6839).

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**12. Lecanactis abietina (ACH.) KÖRB.**

AUSTRIA, Niederösterreich (=Lower Austria), Nördliche Kalkalpen, Gölter-Gruppe, S-facing slopes of Weißmauer E of the Lahnsattel, 47°46'30"N/15°31'30"E, MTB 8259/1, 1000 m alt., *Fagus-Abies*-forest, on bark of *Abies alba*. - 22.V.1998, leg. & det. J. HAFELLNER (45301).

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**13. Lecanora frustulosa (DICKS.) ACH.**

ITALY, Trentino-Alto Adige, Val di Mazia, NE of Sluderno, 46°41'N/10°36'E, 1000 m alt., on rock. - 28.VIII.1954, leg. A. SCHRÖPPEL, det. W. OBERMAYER

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**14. Leprocaulon microscopicum (VILL.) GAMS**

FRANCE, Dept. Sarthë, Parc Naturel Régional Normandie Maine, Alpes Mancelles SW of Alençon, near St. Léonard-des-Bois, siliceous rocks at the orographically right bank of the river Sarthe, ~48°22'N/0°05'W, 100 m alt., on bryophytes, - 10.VII.1980, leg. & det. J. HAFELLNER (8846).

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**15. Megalospora sulphurata MEYEN & FLOTOW  
var. sulphurata**

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 360 km E of Lhasa, near the bend of the river Tsangpo, N-side of Gyala Peri, 6 km S of Dongjug village, 29°56'-58'N/94°53'-54'E, 2500 - 2700m alt., on *Populus* spec. - 21.VIII.1994, leg. & det. W. OBERMAYER (6754), confirm. J. HAFELLNER.

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**16. Mycobilimbia carnealbida (MÜLL.ARG.) ined.**

FINLAND, Keski-Suomi, Tavastia australis, Korpilahti, Päiväkunta, slopes above W-shore of lake Kivijärvi, 61°59'N/25°54'E, 130 - 140 m alt., boreal forest with large granodioritic boulders, on bark of *Populus tremula* and bryophytes. - 9.VIII.1997, leg. & det. H. MAYRHOFER (13714).

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**17. *Mycoblastus affinis* (SCHAER.) T. SCHAUER**

AUSTRIA, Salzburg, Radstädter Tauern, 8.5 km S of Radstadt, valley of the Zauchenbach, 47°18'20"N/13°27'E, MTB 8646, on bark and debarked twigs of *Picea abies*. – 7.X.1997, leg. & det. R. TÜRK (23090a).

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**18. *Omphalora arizonica* (TUCK. ex WILLEY) T.H.NASH & HAFELLNER**

U.S.A., Arizona, Apache Co., Apache National Forest, Mt. Baldy Wilderness, ridge NW above the valley of the East Fork of the Little Colorado River, 33°55'30"N/109°31'W, 2950 m alt., large cliffs of volcanic conglomerate, on NW-exposed rock faces. – 3.VII.1994, leg. & det. J. HAFELLNER (36705).

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**19. *Pannaria rubiginosa* (ACH.) BORY**

SPAIN, Islas Canarias, Tenerife, 5 km SE of La Matanza de Acentejo, near Laguneta Alta, road with avenue trees, 28°24'40"N/16°24'15"W, 1450 m alt., UTM CS6143, on *Eucalyptus* spec.. – 19.VII.1997, leg. T. FEUERER & C. MARTH, det. W. OBERMAYER.

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**20. *Placopsis lambii* HERTEL & V. WIRTH**

AUSTRIA, Oberösterreich (=Upper Austria), Mühlviertel, 17 km ESE of Freistadt, 1 km NE of Weitersfelden, Haid, 855 m alt., 48°29'N/14°44'E, MTB 7554/1, on granitic rock. – 13.XI.1996, leg. F. PRIEMETZHOFFER (s.n.), det. F. BERGER.

Note: All specimens with apothecia!

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**21. *Ramalina sinensis* JATTA**

MONGOLIA, Gobi Altai, S-Gobi Aimag, Dzuun Saikhan, Yoliin Am catchment, 43°29'N/104°06'E, 2520 m alt., *Salix* scrub with dwarf birches on N-facing, wind-sheltered slope, on *Salix*. – 8.II.1996, leg. G. & S. MIEHE (96-172-14.1), det. W. OBERMAYER.

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**22. *Rhizocarpon ridescens* (NYL.) ZAHLBR.**

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 11 km SW of Judenburg, 1 km SWS of Winterleitenhütte, SSE-exposed steep rocks between Kreiskogel and Speikkogel, 47°04'40"N/14°34'E, 1900 m alt., on strongly inclined (to vertical) iron-rich mica schist. – 10.VII.1998, leg. & det. W. OBERMAYER.

Note: parasitized by the lichenicolous fungus *Muellerella pygmaea*.

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**23. *Rinodina cacuminum* (Th.FR.) MALME**

FINLAND, Uusimaa (=Nylandia), Lovisa-Loviisa, beach of Lovisa, 60°27'N/26°14'30"E, 0 - 5 m alt., on granitic boulders. – 16.VIII.1997, leg. & det. H. MAYRHOFER (13711).

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**24. *Rinodina cacuminum* (Th.FR.) MALME**

FINLAND, Uusimaa (=Nylandia), Lovisa-Loviisa, Island Svartholm SE of Lovisa, 60°23'N/26°18'E, 10 m alt., on granite. – 16.VIII.1997, leg. & det. H. MAYRHOFER (13712).

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**25. *Rinodina milvina* (WAHLENB.) Th.FR.**

FINLAND, Uusimaa (=Nylandia), Lovisa-Loviisa, Island Svartholm SE of Lovisa, 60°23'N/26°18'E, 10 m alt., on granite. – 16.VIII.1997, leg. & det. H. MAYRHOFER (13713).

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**26. Rinodina orculata POELT & M. STEINER**

AUSTRIA, Niederösterreich (=Lower Austria), 5 km SE of Lunz am See, Scheiblingstein, 47°50'30"N/15°05'20"E, MTB 8156/4, 1400 m alt., on *Acer pseudo-platanus*. – 11.VIII.1995, leg. R. TÜRK (20256), det. H. MAYRHOFER.

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**27. Rinodina zwackhiana (KREMP.) KÖRB.**

AUSTRIA, Steiermark (=Styria), Murberge, 3 km W of Oberwölz-Stadt, near Winklern, cliffs of intermediate schist, 47°12'N/14°14'E, MTB 8751/3, 860 - 900 m alt., on rock. – 2.V.1994, leg. J. POELT (s.n.), det. H. MAYRHOFER.

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**28. Sticta sublimbata (J. STEINER) SWINSCOW & KROG**

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 275 km ENE of Lhasa, 70 km E of Gongbo Gyamda, mixed forest and shore area close to the lake Basum Tso, 30°00'N/93°56'-57'E, 3500 - 3600 m alt., over bryophytes covering shaded rocks. – 29.VIII.1994, leg. & det. W. OBERMAYER (7155).

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**29. Strigula stigmatella (ACH.) R.C. HARRIS**

AUSTRIA, Niederösterreich (=Lower Austria), Nördliche Kalkalpen, Gölter-Gruppe, southfacing slopes of Weißmauer E of the Lahnsattel, 47°46'30"N/15°31'30"E, MTB 8259/1, 1000 m alt., *Fagus-Abies*-forest, on bryophytes covering bark of *Fagus sylvatica*. – 22.V.1998, leg. & det. J. HAFELLNER (45279).

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**30. Teloschistes flavicans (SW.) NORMAN**

SPAIN, Islas Canarias, El Hierro, Mirador de Basco (Mirador de El Rincon), W above Sabinosa, upper edge of SW-exposed steep rocks, 27°45'10"N/18°07'W, 660 m alt., on basaltic outcrop. – 5.II.1995, leg. & det. J. HAFELLNER (45584).

Note: associated with *Heterodermia leucomelos*.

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OBERMAYER, W. 1997: *Lichenotheca Graecensis*, Fasc. 5 (Nos 81 - 100). – Fritschiana 11: 1 - 6.

HAFELLNER, J. 1997: Materialien zur Roten Liste gefährdeter Flechten Österreichs. – Fritschiana 12: 3 - 32.

STARMÜHLER, W. 1998: *Ranunculaceae subtrib. Delphiniinae exsiccatae*, Fasc. 3 (Nr. 41 - 60). – Fritschiana 13: 1 - 10.

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STARMÜHLER, W. 1998: *Delphinia rarissima selecta* (1998). – Fritschiana 13: 45 - 48.

DRESCHER, A. 1998: Exkursionen des Institutes für Botanik in Graz in die Karpaten im Sommer 1993. – Fritschiana 14: 1 - 54.

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