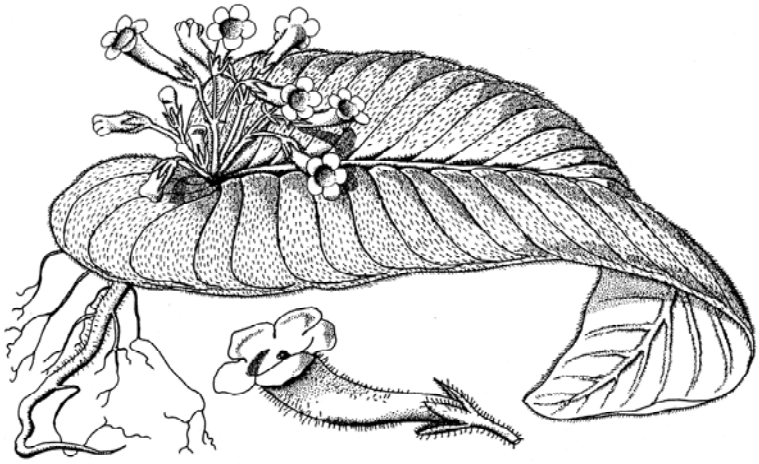
FRITSCHIANA

63



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

Christian SCHEUER
Mycotheca Graecensis, Fasc. 22 (Nos 421–440)

Uwe BRAUN & Christian SCHEUER
***Ramularia gratiolae* sp. nov. (Hyphomycetes)**

Graz, 17. Dezember 2008

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

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

Nachrufe: KNOLL F. 1934, 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 Pflanzenwissenschaften, Bereich Systematische Botanik und Geobotanik (vormals Institut für Botanik), der Karl-Franzens-Universität Graz (GZU) gegründet. Vor allem Schedae-Hefte der von den Mitarbeitern herausgegebenen Exsiccatenwerke sollten hier erscheinen, aber auch Exkursionsberichte sowie Listen und Indices besonders wertvoller Bestände in GZU. Das Spektrum wurde mittlerweile auf floristische und kleinere taxonomische Arbeiten (zwischenzeitlich auch auf das Samentauschverzeichnis des Botanischen Gartens) ausgeweitet. Die Schedae-Hefte des von Prof. Dr. Josef POELT begründeten, inzwischen abgeschlossenen Exsiccatenwerkes Plantae Graecenses sind die Vorläufer dieser Schriftenreihe.

Gesamtredaktion:

Dr. Christian SCHEUER, Mag. Dr. Walter OBERMAYER
Karl-Franzens-Universität Graz, Institut für Pflanzenwissenschaften
Bereich Systematische Botanik und Geobotanik, Holteigasse 6
A-8010 Graz, Österreich/Austria

ISSN 1024-0306
Key title = Abbreviated title: Fritschiana (Graz)

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

FRITSCHIANA

Veröffentlichungen aus dem
Institut für Pflanzenwissenschaften
(Bereich Systematische Botanik und Geobotanik)
der Karl-Franzens-Universität Graz

63

Christian SCHEUER
Mycotheca Graecensis, Fasc. 22 (Nos 421–440)
pp. 1–9

Uwe BRAUN & Christian SCHEUER
***Ramularia gratiolae* sp. nov. (Hyphomycetes)**
pp. 11–13

Graz, 17. Dezember 2008

In diesem Heft neu beschriebenes Taxon (p 12):
New taxon described in this issue (p 12):

***Ramularia gratiolae* U.Braun & Scheuer sp. nov.**

ISSN 1024-0306
Key title = Abbreviated title: Fritschiana (Graz)

© 2008 by the authors. All rights reserved.
Date of publication: 17.XII.2008
Printed by: Druckerei Khil Ges.m.b.H., Neutorgasse 26, 8010 Graz, Austria

Mycotheca Graecensis, Fasc. 22 (Nos 421–440)

Christian SCHEUER*

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana (Graz) 63: 1–9. - ISSN 1024-0306.

Mycotheca Graecensis is the successor of the mycological part of Plantae Graecenses. It is distributed to 20 institutions world-wide (AD, B, BPI, DAOM, E, GZU, H, HAL, HMAS, K, KRAM, L, LE, M, NY, PDD, S, SOMF, TNS, W).
The material for the present fascicle was collected in Styria (Steiermark), Austria. Two collections originate from a recent project of the Botanical Garden, the "country garden", where various vegetables and ornamental plants are grown. The most remarkable collection distributed in Fasc. 22 is *Pseudocercospora sambucigena*. It represents the third record world-wide and the first one in Austria.

*Karl-Franzens-Universität Graz, Institut für Pflanzenwissenschaften,
Holteigasse 6, A-8010 Graz, Austria
E-mail: christian.scheuer@uni-graz.at

The present fascicle of Mycotheca Graecensis contains twenty collections of fungi of various taxonomic groups, predominantly parasitic higher fungi. The material was collected in Graz and in the area of Mariazell (Styria, Austria). Two collections originate from a recent project in the Botanical Garden of the Karl-Franzens-University, the "country garden", where various vegetables and ornamental plants are grown, including a number of traditional local cultivars. The most remarkable collection distributed in Fasc. 22 is *Pseudocercospora sambucigena*. It represents the third record world-wide and the first one in Austria (see BRAUN & CROUS 2005).

The grid reference preceded by the abbreviation MTB refers to the grid used by the project "Floristic Mapping of Middle Europe" (e.g., EHRENDORFER & HAMANN 1965).

Mycotheca Graecensis is currently distributed to 20 institutions world-wide (official abbreviations for public herbaria according to HOLMGREN & al. 1990, online under http://sweetgum.nybg.org/ih/):

AD (Adelaide, Australia)
B (Berlin, Germany)
BPI (Beltsville Md, U.S.A.)
DAOM (Ottawa, Canada)
E (Edinburgh, Scotland, U.K.)
GZU (Graz, Austria)
H (Helsinki, Finland)
HAL (Halle/Saale, Germany)
HMAS (Beijing, China)
K (Kew, England, U.K.)
KRAM (Kraków, Poland)
L (Leiden, The Netherlands)
LE (St. Petersburg, Russia)
M (München, Germany)
NY (New York, U.S.A.)
PDD (Auckland, New Zealand)
S (Stockholm, Sweden)
SOMF (Sofia, Bulgaria)
TNS (Tsukuba, Japan)
W (Wien, Austria)

Sincere thanks are due to Uwe Braun (Halle/S.) for several identifications, Waltraud Hollerer (Graz) for her support during the collecting trips around Mariazell, René Michalski (Graz) for his assistance in the "country garden" of our Botanical Garden, and Walter Obermayer (Graz) for the collection of *Ustilago avenae*.

References

BRAUN U. & CROUS P.W. 2005: Additions and corrections to names published in *Cercospora* and *Passalora*. - Mycotaxon 92: 395–416.

EHRENDORFER F. & HAMANN U. 1965: Vorschläge zu einer floristischen Kartierung von Mitteleuropa. - Berichte der deutschen botanischen Gesellschaft 78(1): 35–50.

HOLMGREN P.K., HOLMGREN N.H. & BARNETT L.C. 1990: Index Herbariorum. Part I: The Herbaria of the World. - Regnum Vegetabile 120, X+693 pp. New York Botanical Garden.

The schedae are also published in the www on the Fritschiana website:
http://www.uni-graz.at/botwww/journals/fritschiana/fritschiana.html

Fasc. 22

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Hyphomycetes

421. **Alternaria brassicae** (Berk.) Sacc.

on *Brassica rapa* subsp. *pekinensis* (Lour.) Hanelt ex Mansf., in necrotic leaf spots

AUSTRIA, Styria, Graz, distr. Geidorf, Botanical Garden of the Karl-Franzens-University, 47°04'58"N, 15°27'30"E, 380 m alt., MTB 8958/2; "country garden".

20 September 2008 leg. & det. C. Scheuer (# 5535)
conf. U. Braun (Halle/S.)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Hyphomycetes

422. **Cercospora beticola** Sacc.

on *Beta vulgaris* subsp. *cicla* (L.) W.D.J. Koch, in necrotic leaf spots

AUSTRIA, Styria, Graz, distr. Geidorf, Botanical Garden of the Karl-Franzens-University, 47°04'58"N, 15°27'30"E, 380 m alt., MTB 8958/2; "country garden".

20 September 2008 leg. & det. C. Scheuer (# 5534)
conf. U. Braun (Halle/S.)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Ascomycetes

423. **Erysiphe adunca var. regularis** (R.Y.Zheng & G.Q.Chen) U.Braun & S.Takam.

Syn.: *Uncinula adunca* var. *regularis* (R.Y.Zheng & G.Q.Chen) U.Braun
on *Salix caprea* L.

AUSTRIA, Styria, Graz, distr. Waltendorf, close to the observatory "Lustbühel", 47°04'01''N, 15°29'45''E, 465 m alt., MTB 8958/2; shrubs along a forest edge.

21 October 2008 leg. C. Scheuer (# 5506)
det. U. Braun (Halle/S.)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Ascomycetes

424. **Erysiphe alphitoides** (Griffon & Maubl.) U.Braun & S.Takam.

Syn.: *Microsphaera alphitoides* Griffon & Maubl.
on *Quercus robur* L. (young plants, 10–30 cm high)

AUSTRIA, Styria, Graz, distr. Geidorf, Botanical Garden of the Karl-Franzens-University, 47°04'58''N, 15°27'30''E, MTB 8958/2, *c.* 380 m alt.; Arboretum.

22 October 2008 leg. & det. C. Scheuer (# 5531)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Ascomycetes

425. **Erysiphe aquilegiae var. ranunculi** (Grev.) R.Y.Zheng & G.Q.Chen

on *Aconitum variegatum* agg.

AUSTRIA, Styria, Türnitzer Alpen, ENE of Mariazell, Halltal, valley of the stream Walster (Rechengraben), 47°47'10''N, 15°21'03''E, 800 m alt., MTB 8258/1; tall herbs along the road.

18 August 2008 leg. & det. C. Scheuer (# 5515)
conf. U. Braun (Halle/S.)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Ascomycetes

426. **Erysiphe flexuosa** (Peck) U.Braun & S.Takam.

Syn.: *Uncinuliella flexuosa* (Grev.) (Peck) U.Braun
on *Aesculus hippocastanum* L.

AUSTRIA, Styria, Graz, distr. Innere Stadt, south-eastern slopes of the Schlossberg, 47°04'40''N, 15°26'23''E, *c.* 420 m alt., MTB 8958/2; park trees.

27 August 2008 leg. & det. C. Scheuer (# 5504)
conf. U. Braun (Halle/S.)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Ascomycetes

427. **Melogramma campylosporum** Fr.

Syn.: *Melogramma bulliardii* Tul. & C.Tul.
on dead shoots of *Carpinus betulus* L.

AUSTRIA, Styria, Graz, distr. Mariatrost, on the north-facing hillside below the church, 47°06'29''N, 15°29'32''E, MTB 8858/4, *c.* 440 m alt.; clearing.

5 November 2006 leg. & det. C. Scheuer (# 5321)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Hyphomycetes

428. **Passalora circumscissa** (Sacc.) U.Braun

Syn.: *Cercospora circumscissa* Sacc., Tel.: *Mycosphaerella cerasella* Aderh.
on *Prunus avium* L., in necrotic leaf spots

AUSTRIA, Styria, Graz, distr. Waltendorf, Pointnergasse, 47°04'28''N, 15°29'19''E, 410 m alt., MTB 8958/2; ornamental tree.

21 September 2008 leg. & det. C. Scheuer (# 5496)
conf. U. Braun (Halle/S.)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Hyphomycetes

429. **Passalora ferruginea** (Fuckel) U.Braun & Crous

Syn.: *Mycovellosiella ferruginea* (Fuckel) Deighton

on *Artemisia vulgaris* L., in leaf spots (hypophyllous)

AUSTRIA, Styria, Graz, distr. Mariatrost, along the Wenisbucher Straße, 47°06'42''N, 15°29'18''E, 460 m alt., MTB 8858/4; sun-exposed roadside with shrubs.

14 October 2008 leg. & det. C. Scheuer (# 5491)
conf. U. Braun (Halle/S.)

Annot.: These plants were growing side by side with other individuals heavily infected by *Puccinia artemisiella* P.Syd. & Syd. (see No. 434 in this issue), but no plants infected by both fungal parasites could be found in this locality.

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Uredinales

430. **Phragmidium mucronatum** (Pers.) Schltdl.

(II), III on *Rosa* sp.

AUSTRIA, Styria, Graz, distr. Waltendorf, Pointnergasse, 47°04'31''N, 15°29'21''E, 405 m alt., MTB 8958/2; abandoned garden hedge.

21 September, 25 October 2008 leg. & det. C. Scheuer (# 5498)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Uredinales

431. **Phragmidium rubi-idaei** (DC.) P.Karst.

(II), III on *Rubus idaeus* L.

AUSTRIA, Styria, Graz, distr. Waltendorf, Innere Ragnitz, northern foot of the ridge Ruckerlberg, 47°04'37''N, 15°28'43''E, 380 m alt., MTB 8958/2; shaded forest edge along the path.

5 November 2008 leg. & det. C. Scheuer (# 5553)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Uredinales

432. **Phragmidium violaceum** (Schultz) G.Winter

III on *Rubus* cf. *bifrons* Vest

AUSTRIA, Styria, Graz, distr. Waltendorf, close to the observatory "Lustbühel", 47°04'03"N, 15°29'38"E, 470 m alt., MTB 8958/2; *Rubus* thicket along the roadside.

22 October 2008 leg. & det. C. Scheuer (# 5509)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Hyphomycetes

433. **Pseudocercospora sambucigena** U.Braun, Crous & K.Schub.

on *Sambucus nigra* L., in necrotic leaf spots

AUSTRIA, Styria, Graz, distr. Waltendorf, Innere Ragnitz, northern foot of the ridge Ruckerlberg, 47°04'38"N, 15°28'35"E, 380 m alt., MTB 8958/2; shaded forest edge along the path.

19 September 2008 leg. C. Scheuer (# 5492)
det. U. Braun (Halle/S.)

Annot. (U. BRAUN): This collection represents the third record world-wide and the first one for Austria. The two earlier records originate from the U.S.A. and from Italy, the latter collection also on *Sambucus nigra* (see BRAUN & CROUS 2005).

BRAUN U. & CROUS P.W. 2005: Additions and corrections to names published in *Cercospora* and *Passalora*. - Mycotaxon 92: 395–416.

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Uredinales

434. **Puccinia artemisiella** P.Syd. & Syd.

II, III on *Artemisia vulgaris* L.

AUSTRIA, Styria, Graz, distr. Mariatrost, along the Wenisbucher Straße, 47°06'42''N, 15°29'18''E, 460 m alt., MTB 8858/4; sun-exposed roadside with shrubs.

14 October 2008 leg. & det. C. Scheuer (# 5490)

Annot.: These plants were growing side by side with other individuals heavily infected by *Passalora ferruginea* (Fuckel) U.Braun & Crous (see No. 429 in this issue), but no plants infected by both fungal parasites could be found in this locality.

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Uredinales

435. **Puccinia jaceae** G.H.Otth

II, III on *Centaurea jacea* L.

AUSTRIA, Styria, Türnitzer Alpen, ENE of Mariazell, Halltal, valley of the stream Walster (Rechengraben), 47°46'55''N, 15°20'59''E, 800 m alt., MTB 8258/1; tall herbs along the road.

18 August 2008 leg. & det. C. Scheuer (# 5514)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Hyphomycetes

436. **Ramularia coleosporii** Sacc.

on *Coleosporium tussilaginis* (Pers.) Lév. s.lat., incl. *C. senecionis* (Pers.) Fr.
on *Senecio ovatus* (G.Gaertner, B.Meyer & Scherb.) Willd.

AUSTRIA, Styria, Türnitzer Alpen, ENE of Mariazell, Halltal, valley of the stream Walster (Rechengraben), 47°47'13''N, 15°21'09''E, 800 m alt., MTB 8258/1; tall herbs along the road.

18 August 2008 leg. C. Scheuer & W. Hollerer
det. C. Scheuer (# 5516)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Coelomycetes

437. **Septoria castaneicola** Desm.

Syn.: *Phloeospora castaneicola* (Desm.) D.Sacc.

on *Castanea sativa* Mill., on senescent leaves (acervuli mostly hypophyllous)

AUSTRIA, Styria, Graz, distr. Waltendorf, close to the observatory "Lustbühel", 47°04'04''N, 15°29'38''E, 470 m alt., MTB 8958/2; forest edge along the road.

22 October 2008 leg. & det. C. Scheuer (# 5510)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Coelomycetes

438. **Septoria ulmi** Fr.

Syn.: *Phloeospora ulmi* (Fr.) Wallr., Tel.: *Mycosphaerella ulmi* Kleb.

on *Ulmus glabra* Huds., on living leaves (acervuli hypophyllous)

AUSTRIA, Styria, Türnitzer Alpen, ENE of Mariazell, Halltal, valley of the stream Walster (Rechengraben), 47°46'45''N, 15°20'53''E, 800 m alt., MTB 8258/1; shrubs along the roadside.

18 August 2008 leg. C. Scheuer & W. Hollerer
det. C. Scheuer (# 5517)

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

Uredinales

439. **Uromyces geranii** Speg.

II, III on *Geranium sibiricum* L.

AUSTRIA, Styria, Graz, distr. Waltendorf, Macherstraße, 47°04'32''N, 15°29'22''E, *c.* 400 m alt., MTB 8958/2; roadside.

19 August 2008 leg. & det. C. Scheuer (# 5501)

Annot.: This is the first record on *Geranium sibiricum* in Austria. — The uredinia (II) are often infected by *Sphaerellopsis filum* (Biv.) B.Sutton (Tel.: *Eudarluca caricis* (Biv.) O.E.Erikss.).

SCHEUER C. 2008: Mycotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana 63: 1–9.
Distributed by the *Institut für Pflanzenwissenschaften*, *Karl-Franzens-Universität*, Graz (GZU)

440. **Ustilago avenae** (Pers.) Rostr.

Syn.: *Ustilago perennans* Rostr.

in spikelets of *Arrhenatherum elatius* (L.) J.Presl & C.Presl

AUSTRIA, Styria, Graz, Mariatrost distr., 200 m SSE of the church of Mariatrost, 47°06'20"N, 15°29'43"E, *c.* 480 m alt., MTB 8858/4; meadow on the talus of a road.

21 May 2007 leg. W. Obermayer (# 11370)
det. C. Scheuer

Ramularia gratiolae sp. nov. (Hyphomycetes)

Uwe BRAUN* & Christian SCHEUER**

BRAUN U. & SCHEUER C. 2008: *Ramularia gratiolae* sp. nov. (Hyphomycetes). – Fritschiana (Graz) 63: 11–13. - ISSN 1024-0306.

Ramularia gratiolae sp. nov. is described, illustrated and discussed. This inconspicuous species was found on necrotic leaves of *Gratiola officinalis* in the Botanical Garden of the Karl-Franzens-University in Graz (Styria, Austria).

Ramularia gratiolae sp. nov. wird beschrieben, abgebildet und diskutiert. Diese unauffällige Art wurde auf nekrotischen Blättern von *Gratiola officinalis* im Botanischen Garten der Karl-Franzens-Universität Graz (Steiermark, Österreich) entdeckt.

Key words: *Ramularia*, *Mycosphaerella* anamorph, new species.

*Martin-Luther-Universität, Institut für Biologie, Bereich Geobotanik und Botanischer Garten, Herbarium, Neuwerk 21, D-06099 Halle (Saale), Germany
E-mail: uwe.braun@botanik.uni-halle.de

**Karl-Franzens-Universität, Institut für Pflanzenwissenschaften, Holteigasse 6, A-8010 Graz, Austria
E-Mail: christian.scheuer@uni-graz.at

1. Introduction

A hyphomycete recently found on *Gratiola officinalis* in the Botanical Garden of the Karl-Franzens-University in Graz proved to be an undescribed species of the genus *Ramularia* Unger. The lesions caused by this fungus are rather unspecific. Genuine leaf spots are lacking. Inconspicuous hypophyllous caespituli are formed on necrotic leaves. Furthermore, long, cylindrical, aseptate conidia are formed in unbranched chains. In this respect, there are only few comparable species on hosts of the family Scrophulariaceae.

2. Material and methods

Caespituli of the hyphomycete on *Gratiola* leaves have been removed by means of a razor blade and mounted in a drop of distilled water, pure lactic acid and lactic acid stained with analine for microscopic examination using standard light microscopy (Olympus BX50).

3. Results

A detailed examination of the *Ramularia* on *Gratiola officinalis* and a comparison with other *Ramularia* spp. on hosts of the family Scrophulariaceae revealed obvious differences that warrant the introduction of a new species:

Ramularia gratiolae U.Braun & Scheuer, **sp. nov.** (MB 512677)
Fig. 1

Diagnosis: *Ramulariae obducenti* affinis, a qua imprimis differt conidiophoris brevioribus, 5–25 × 1.5–3.5 µm, conidiis angustioribus, 2–3 µm latis, et hyphis interdum superficialibus.

Holotype: On leaves of *Gratiola officinalis* L. (Scrophulariaceae), Austria, Styria (Steiermark), Graz, distr. Geidorf, Botanical Garden of the Karl-Franzens-University, 47°04'54''N, 15°27'26''E, *c.* 380 m alt., 12 September 2008, leg. C. Scheuer 5450 (HAL 2294 F).

Lesions on living leaves, at first forming small yellowish to brown discolorations, often lateral or terminal, later entire leaves turning brown, necrotic. Caespituli hypophyllous, inconspicuous. Mycelium internal, partly with some superficial hyphae emerging through stomata; superficial hyphae branched, (1–)1.5–3(–3.5) µm wide, septate, hyaline, thin-walled, smooth to faintly rough-walled. Stromata lacking or small, stromatic hyphal aggregations substomatal to intraepidermal, 10–25(–30) µm diam., at first hyaline, later olivaceous to olivaceous-brown. Conidiophores in small to moderately large fascicles, loose to moderately dense, arising from internal hyphae or stromata, emerging through stomata or erumpent, erect, usually geniculate-sinuous, simple or often with short lateral or terminal branchlets, 5–25 × 1.5–3.5 µm, 0–1(–2)-septate, hyaline or subhyaline, thin-walled, smooth; conidiogenous cells integrated, terminal, or conidiophores aseptate, i.e. reduced to conidiogenous cells; conidiogenous loci solitary or several, conspicuous, ca. 1 µm diam., slightly thickened and darkened-refractive. Conidia in unbranched chains, cylindrical to subcylindrical-fusiform, (3–)10–30(–40) × 2–3 µm, aseptate, hyaline, thin-walled, almost smooth to faintly verruculose, ends somewhat attenuated, hila *c.* 1 µm diam., slightly thickened and darkened-refractive.

4. Discussion

There are only few comparable *Ramularia* species on hosts of the family Scrophulariaceae. *Ramularia obducens* Thüm. on *Pedicularis* spp. in Asia, Europe and North America (Braun 1998) is similar to the fungus on *Gratiola*. Leaf spots are lacking and the conidia are one-celled as well, but the conidiophores are much longer, 15–60 × 2–4.5 µm (50–100 µm long in var. *filiformis* (Lindr.) U.Braun), and the conidia are more ellipsoid-fusiform and broader, 3–6(–7) µm (Braun 1998). *R. chamaedryos* (Lindr.) Gunnerb. on *Veronica chamaedrys* in Europe differs from the *Ramularia* on *Gratiola* in having much longer conidiophores, up to 70 µm, and smaller, ellipsoid-ovoid conidia, 8–18 × 2–7 µm (Braun 1998). *R. bartsiae* Johanson on *Bartsia alpina* in Europe, Iceland and North America is quite distinct by its broadly obovoid-ellipsoid conidia, (6–)10–20(–24) × (4–)5–8(–9) µm (Braun 1998). Furthermore, the mycelium of the *Ramularia* on *Gratiola* is internal as well as superficial. Due to these obvious differences, the *Ramularia* on *Gratiola* has to be considered a new species.

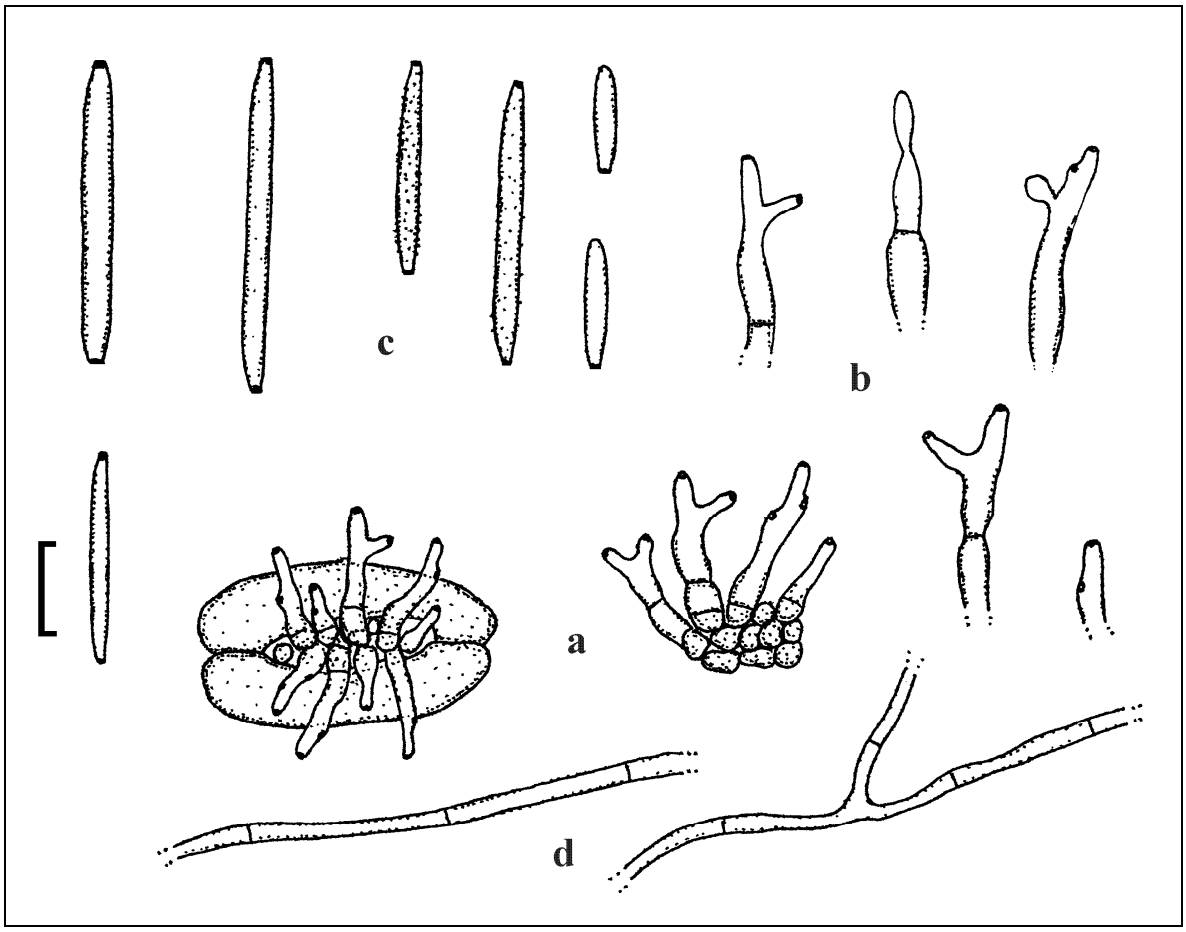


Fig. 1. *Ramularia gratiolae* on *Gratiola officinalis*: (a) fascicle of conidiophores, (b) conidiophores, (c) conidia, (d) superfical hyphae (bar = 10 µm, U. BRAUN del.).

5. Reference

BRAUN U. 1998: A monograph of *Cercosporella*, *Ramularia* and allied genera (phytopathogenic hyphomycetes). Vol. 2. - Eching: IHW-Verlag.

Bisher erschienen - hitherto published

(for contents of Fritschiana 1–55: see earlier issues of Fritschiana; a complete table of contents is available under http://www.uni-graz.at/botwww/journals/fritschiana/fritschiana.html)

VONDRAK J. 2007: Selected exsiccates of *Caloplaca*. – Fritschiana (Graz) 56: 1–10.

DRESCHER A. & GIGERL P. 2007: Samentauschverzeichnis 2007. – Fritschiana (Graz) 57: 1–45.

SCHEUER C. 2007: Dupla Graecensia Fungorum (2007, Nos 41–100). – Fritschiana (Graz) 58: 1–25.

SCHEUER C. 2007: Schedae emendatae for fungal collections published and distriuted in Dupla Graecensia Fungorum and Reliquiae Petrakianae. – Fritschiana (Graz) 58: 26–27.

BRAUN U. & SCHEUER C. 2007: *Colletogloeum veratri-albi* – a new acervular coelomycete on *Veratrum album*. – Fritschiana (Graz) 58: 28–34.

ZWETKO P. 2007: Notes on two collections of *Puccinia caricina* s.l. on *Carex hordeistichos* from Austria. – Fritschiana (Graz) 58: 35–38.

HAFELLNER J. 2007: Checklist and bibliography of lichenized and lichenicolous fungi so far reported from Albania (version 05-2007). – Fritschiana (Graz) 59: 1–18.

OBERMAYER W. 2007: Lichenotheca Graecensis, Fasc. 16 (Nos 301–320). – Fritschiana (Graz) 60: 1–6.

OBERMAYER W. 2007: Dupla Graecensia Lichenum (2007, nos 481–580). – Fritschiana (Graz) 60: 7–34.

HAFELLNER J. 2007: Lichenicolous Biota (Nos 1–20). – Fritschiana (Graz) 60: 35–49.

HAFELLNER J. 2008: Lichenicolous Biota (Nos 21–60). – Fritschiana (Graz) 61: 1–28.

BILOVITZ P.O., DRAGIĆEVIĆ S., KNEŽEVIĆ B., STEŠEVIĆ D., VITIKAINEN O. & MAYRHOFER H. 2008: New or otherwise interesting lichenized and lichenicolous fungi from Montenegro. – Fritschiana (Graz) 62: 1–44.

ISSN 1024-0306