BULGARIAN ACADEMY OF SCIENCES
INSTITUTE OF BOTANY

PHYTOLOGIA BALCANICA



Vol. 15(3) • DECEMBER 2009

PHYTOLOGIA BALCANICA International Journal of Balkan Flora and Vegetation

Volume 15 (3), Sofia, December 2009

EDITORIAL BOARD

Editor-in-Chief:

Ana Petrova Institute of Botany, Bulgarian Academy of Sciences, Sofia, Bulgaria

Secretary:

Vladimir Vladimirov Institute of Botany, Bulgarian Academy of Sciences, Sofia, Bulgaria

EDITORS:

Mincho Anchev Institute of Botany, Bulgarian Academy of Sciences, Sofia, Bulgaria

Hans-Jürgen Beug Institute of Ecology, University of Göttingen, Germany

Elissaveta Bozhilova Biological Faculty, Sofia University, Bulgaria

Carles Codina Faculty of Pharmacy, University of Barcelona, Spain

Gheorghe Dihoru Institute of Biology, Romanian Academy, Bucharest, **Romania** Anna Ganeva Institute of Botany, Bulgarian Academy of Sciences, Sofia, **Bulgaria**

Werner Greuter Herbarium Mediterraneum, Orto Botanico, Palermo, Italy

Dimiter Ivanov Institute of Botany, Bulgarian Academy of Sciences, Sofia, **Bulgaria**

Nejc Jogan Department of Biology, University of Ljubljana, Slovenia

Tenyo Meshinev Institute of Botany, Bulgarian Academy of Sciences, Sofia, **Bulgaria Zdenka Neuhauslova** Institute of Botany, Czech Academy of Sciences, Prague, **Czech Republic**

Neriman Özhatay Pharmaceutical Faculty, University of Istanbul, Turkey

Dimiter Peev Institute of Botany, Bulgarian Academy of Sciences, Sofia, **Bulgaria**

Dimitrios Phitos Botanical Institute, University of Patras, **Greece**

Vladimir Stevanović Institute of Botany and Botanical Garden, University of Belgrade, Serbia

Arne Strid Botanical Museum, University of Lund, **Sweden**

Tod Stuessy Faculty Center Botany, Institute of Botany, University of Vienna, **Austria**

Kit Tan Institute of Biology, University of Copenhagen, **Denmark**

Dimiter Terziisky Department of Botany, Agricultural University, Plovdiv, **Bulgaria**

Pertti Uotila Botanical Museum, University of Helsinki, Finland Dimiter Vodenicharov Department of Botany, University of Plovdiy, Bulgaria

Jerzy Zieliński Institute of Dendrology, Polish Academy of Sciences, Poznan, Poland

Address:

Phytologia Balcanica Bulgarian Academy of Sciences Institute of Botany Acad. G. Bonchev St., bl. 23 1113 Sofia, Bulgaria

Internet Addresses:

e-mail: phytobalcanica@abv.bg phytolbalcan@gmail.com http://www.bio.bas.bg/~phytolbalcan/

ISSN 1310-7771 ©Institute of Botany Bulgarian Academy of Sciences Sofia 2009

Printed by:

Prof. Marin Drinov Academic Publishing House Acad. G. Bonchev St., bl. 6, 1113 Sofia, Bulgaria

Translation in English:

Lydia Shvedova

Design of the cover page:

Krassimir Apostolov

Print design: Simeon Simeonov

Cover illustrations:

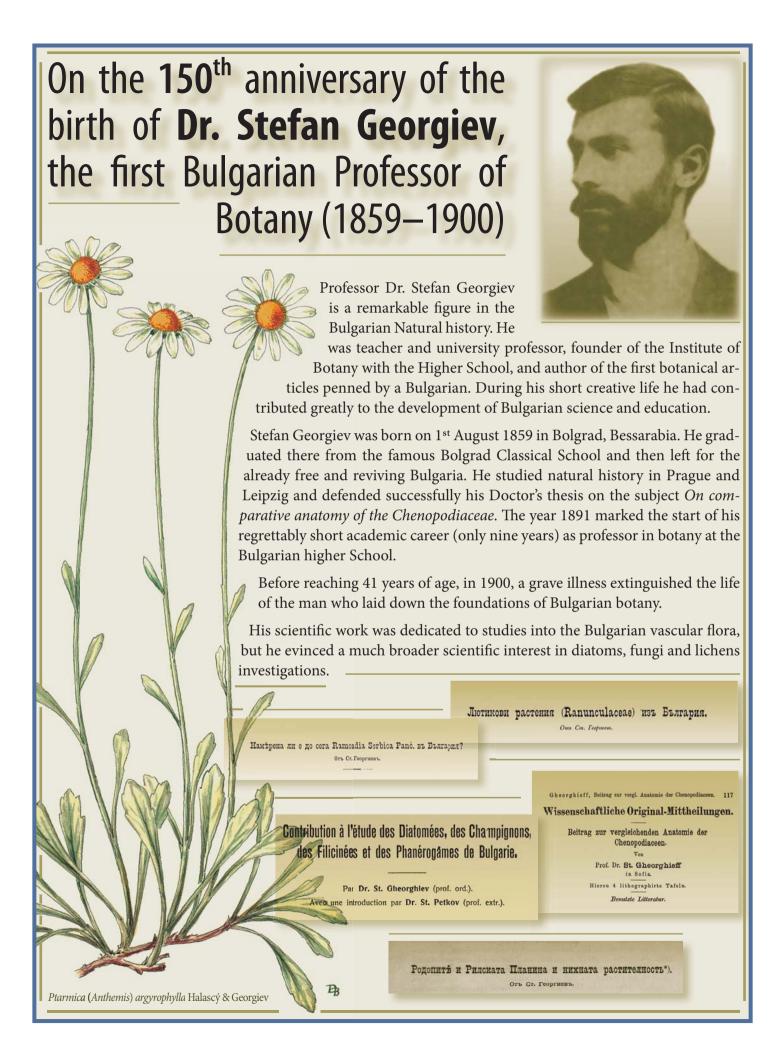
Allium phthioticum (left)

Photo: Yulian Marinov, Gabrovo

Astragalus wilmottianus (right top)
Photo: Stoyan Stoyanov, Sofia
Rhododendron hirsutum (right bottom)
Photo: Đorđije Milanović, Belgrade

This issue is financially supported by the







PHYTOLOGIA BALCANICA

VOL. 15(3) • DECEMBER 2009

www.bio.bas.bg/~phytolbalcan/

CONTENTS

298 New taxa & Errata

Venturella, G.

299 Recording and mapping the Mediterranean mycota: the case of Sicily (S Italy)

Hristova, V. & Ivanov, D.

305 Palynological analysis of the Late Miocene sediments from the Sofia Basin (SW Bulgaria)

Abay, G., Uyar, G., Keçeli, T. & Çetin, B.

317 Contributions to the bryoflora of the Kaçkar Mts (NE Anatolia, Turkey)

Tonkov, S., Stoyanova, N. & Bozilova, E.

Pollen monitoring experiment in the coniferous forests of NW Rila Mts (Bulgaria)

Karl, R. & Strid, A.

337 Bongardia chrysogonum (Berberidaceae) rediscovered on the East Aegean island of Chios

Vladimirov, V. & Petrova, A.S.

343 A new alien species of *Euphorbia (Euphorbiaceae)* to the Bulgarian flora

Shuka, L. & Kit Tan

347 On the distribution of *Cerastium smolikanum* (*Caryophyllaceae*) and *Centaurea vlachorum* (*Asteraceae*) in the Balkan Peninsula

Stoyanov, K.H.

351 Chorology and critical notes on *Orobanche* subsect. *Minores* in Bulgaria

Vladimirov, V.

361 *Erigeron sumatrensis* (*Asteraceae*): a recently recognised alien species in the Bulgarian flora

Petrova, A.S. & Vladimirov, V.

367 Two alien species of *Bidens* (*Asteraceae*) new to the Bulgarian flora

Vladimirov, V. & Petrova, A.

373 Senecio inaequidens (Asteraceae): a new alien species for the Bulgarian flora

Krahulcová, A., Vladimirov, V., Krahulec, F. & Bräutigam, S.

377 The agamic complex of *Pilosella* (*Asteraceae*) in Bulgaria and SW Romania: variation in ploidy level and breading systems

Cheshmedzhiev, I. & Marinov, Yu.

385 *Allium phthioticum*: new species for the Bulgarian flora

Petrova, A.S., Vladimirov, V. & Stoyanov, Ya.

389 Dactylorhiza maculata subsp. transsilvanica (Orchidaceae): new for the Bulgarian flora

Cabi, E., Doğan, M., Başer, B., Ebru Us & Pehlivan, S.

393 Morphological and palynological features of the genus *Dasypyrum* (*Poaceae*) in Turkey

Apostolova-Stoyanova, N. & Stoyanov, S.

401 Systematical and phytogeographical analysis of the flora on Mt Golo Bardo

Vladimirov, V. & al.

431 New floristic records in the Balkans: 12

453 Book reviews and announcements

455 List of the reviewers