

BULGARIAN ACADEMY OF SCIENCES  
INSTITUTE OF BOTANY

# PHYTOLOGIA BALCANICA



VOL. 12(1) • APRIL 2006

PHYTOLOGIA BALCANICA  
International Journal of Balkan Flora and Vegetation

Volume 12 (1), Sofia, April 2006

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** University of Göttingen, Institute of Ecology, **Germany**  
**Elissaveta Bozhilova** Biological Faculty, Sofia University, **Bulgaria**  
**Carles Codina** Faculty of Pharmacy, University of Barcelona, **Spain**  
**Gheorghe Dihoru** Institute of Biology, Romanian Academy of Sciences, Bucharest, **Romania**  
**Anna Ganeva** Institute of Botany, Bulgarian Academy of Sciences, Sofia, **Bulgaria**  
**Werner Greuter** Botanical Garden, Berlin-Dahlem, **Germany**  
**Dimiter Ivanov** Institute of Botany, Bulgarian Academy of Sciences, Sofia, **Bulgaria**  
**Tenyo Meshinev** Institute of Botany, Bulgarian Academy of Sciences, Sofia, **Bulgaria**  
**Zdenka Neuhauslova** Department 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 and Montenegro**  
**Arne Strid** Botanical Garden, Göteborg, **Sweden**  
**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 Plovdiv, **Bulgaria**  
**Tone Wraber** Department of Biology, University of Ljubljana, **Slovenia**  
**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: [phytolbalcan@bio.bas.bg](mailto:phytolbalcan@bio.bas.bg);  
[phytobalcanica@abv.bg](mailto:phytobalcanica@abv.bg)  
WWW: <http://www.bio.bas.bg/~phytolbalcan/>

ISSN 1310-7771

©Institute of Botany  
Bulgarian Academy of Sciences  
Sofia 2006

**Printed by:**

Marin Drinov Academic Publishing House  
Acad. G. Bonchev St., bl. 5, 1113 Sofia, Bulgaria

**Translation in English:**

Lydia Shvedova

**Design of the cover page:**

Krassimir Apostolov

**Print design:**

Simeon Simeonov

**Cover illustration:**

*Ophrys apifera* Huds. (left)  
Photo: V. Vladimirov, Sofia  
*Gladiolus attilae* Kit Tan, B. Mathew & A. Baytop (top right)  
Photo: T. Baytop, Istanbul  
*Hieracium flexuosum* Willd. (bottom right)  
Photo: M. Niketić, Belgrade

This issue is financially supported by the



**National Science Fund,  
Ministry of Education and Science,  
R Bulgaria**

[www.infocus.com](http://www.infocus.com)

# InFocus®

C O R P O R A T I O N



[www.prestige-bg.com](http://www.prestige-bg.com)  
0700 10 110

**Престиж** БИЗНЕС

Исключителен представител на InFocus за България

**Sponsor of IV Balkan Botanical Congress, 20–26 June 2006, Sofia**