

# GENERAL AND APPLIED PLANT PHYSIOLOGY



Year 2009 | Volume XXXV | Issue 3-4 | Pages 93-196

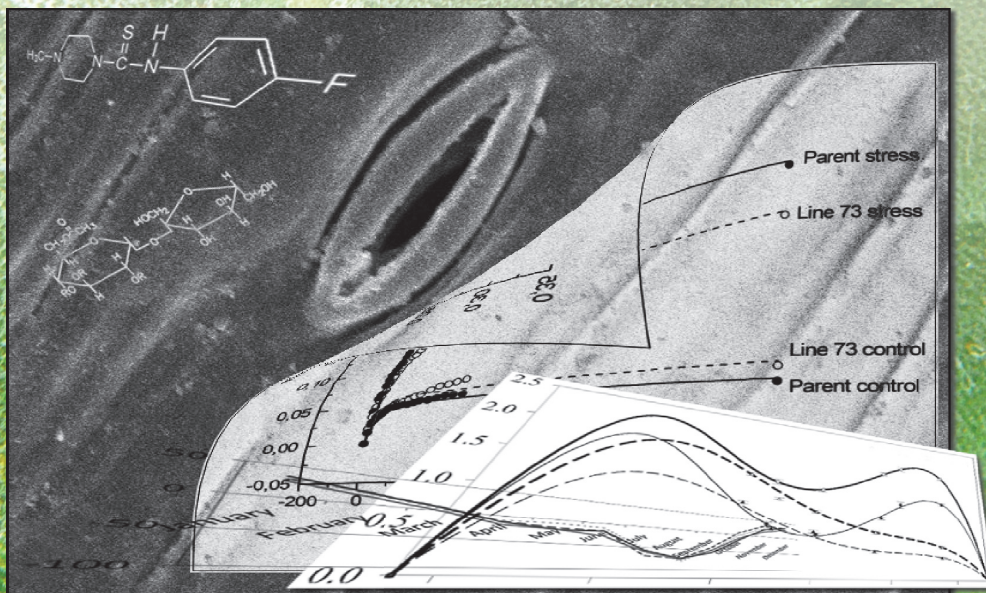
Special Issue (Part I)

PROCEEDINGS OF THE XI NATIONAL CONFERENCE ON  
PLANT PHYSIOLOGY

18-19 November 2009, Sofia, Bulgaria



60 YEARS  
ACAD. M. POPOV INSTITUTE  
OF PLANT PHYSIOLOGY



Published by the Institute of Plant Physiology  
Bulgarian Academy of Sciences

ISSN 1312-8183 (PRINT)  
ISSN 1312-8221 (ONLINE)

Prof. Marin Drinov  
Academic Publishing House

# GENERAL AND APPLIED PLANT PHYSIOLOGY

An International Journal  
(formerly Bulgarian Journal of Plant Physiology)

**Year 2009, Volume XXXV, Issue 3–4, Pages 93–196**

Published by the Institute of Plant Physiology  
Bulgarian Academy of Sciences

---

---

## Editor-in-Chief

Lozanka Popova-Staevska (Bulgaria)

### Editorial Board

Evgueni Ananiev (Bulgaria)  
Aglika Edreva (Bulgaria)  
Georgi I. Georgiev (Bulgaria)  
Hachadur Chuldjian (Bulgaria)  
Ivanka Fedina (Bulgaria)  
Magdalena Chorbadjieva (Bulgaria)  
Katya Georgieva (Bulgaria)

*Language Editor* Kalina Ananieva  
*Managing Editor* Konstantina Kocheva  
*Print Design* Iskren Sergiev

### Advisory Board

Atanas Atanasov (Bulgaria)  
Craig Atkins (Australia)  
Claus Buschman (Germany)  
Amarendra Misra (India)  
Mike Hall (United Kingdom)  
Vladimir Kuznetsov (Russia)  
Jaromir Lukavsky (Czech Republic)  
Ivan Minkov (Bulgaria)  
Vladimir Shuvalov (Russia)  
Reto Strasser (Switzerland)

**General and Applied Plant Physiology** publishes original scientific and methodological papers, brief communications and reviews on special topics in the field of plant physiology and biochemistry. The papers should not be published or intended for publication elsewhere.

The Journal "General and Applied Plant Physiology" covers a large thematical scope relevant to basic physiological processes in plants, such as photosynthesis, mineral nutrition, water relations, growth and development, dark- and photorespiration in normal and stress conditions. The recent research area of genomics and proteomics is also concerned. Studies can be at submolecular, molecular, cellular, subcellular, organ and whole plant levels. Applied studies contributing to the solution of practical problems will be largely considered.

To the readers' attention:

Since 2005 the Journal has been renamed to "General and Applied Plant Physiology", given the ambition to cover a larger scientific area. Thus, we hope to encourage the participation of authors with various research scope and interests in plant physiology and biochemistry in both fundamental and applied area. Welcome to the pages of "General and Applied Plant Physiology"!

---

---

### Contacts

Institute of Plant Physiology  
Acad. G. Bonchev Street, Bl. 21, 1113 Sofia, Bulgaria  
Web: <http://www.bio21.bas.bg/ipp/>  
E-mail: [gapp@bio21.bas.bg](mailto:gapp@bio21.bas.bg)