

180 / pp Volume 171, issue 16, 15 October 2014, ISSN 0176-1617

Volume 171

16  
2014

# JOURNAL OF PLANT PHYSIOLOGY

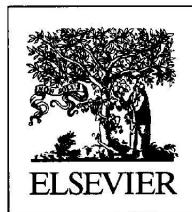
Biochemistry, Physiology, Molecular Biology and Functional Biotechnology of Plants



In Affiliation with FESPB

◆ [www.elsevier.com/locate/jplph](http://www.elsevier.com/locate/jplph)





## Contents

### BIOCHEMISTRY

**Characterization of antioxidant enzymes and peroxisomes of olive (*Olea europaea* L.) fruits**

E. Lopez-Huertas, L.A. del Rio 1463

**Responses of a rice-field cyanobacterium *Anabaena siamensis* TISTR-8012 upon exposure to PAR and UV radiation**

R.P. Rastogi, A. Incharoensakdi, D. Madamwar 1545

### PHYSIOLOGY

**Enzymatic activity and substrate specificity of the recombinant tomato  $\beta$ -galactosidase 1**

M. Eda, M. Ishimaru, T. Tada, T. Sakamoto, T. Kotake, Y. Tsumuraya, A.J. Mort, K.C. Gross 1454

**Cytokinin-induced changes in the chlorophyll content and fluorescence of *in vitro* apple leaves**

J. Dobránszki, N. Mendler-Drienyovszki 1472

**Plant maturity and nitrogen fertilization affected fructan metabolism in harvestable tissues of timothy (*Phleum pratense* L.)**

M. Ould-Ahmed, M.-L. Decau, A. Morvan-Bertrand, M.-P. Prud'homme, C. Lafrenière, P. Drouin 1479

**Spectral effects of supplementary lighting on the secondary metabolites in roses, chrysanthemums, and campanulas**

T. Ouzounis, X. Fretté, E. Rosengqvist, C.-O. Ottosen 1491

**Increasing water stress negatively affects pear fruit growth by reducing first its xylem and then its phloem inflow**

B. Morandi, P. Losciale, L. Manfrini, M. Zibordi, S. Anconelli, F. Galli, E. Pierpaoli, L. Corelli Grappadelli 1500

**Ozone tolerance in lichens: A possible explanation from biochemical to physiological level using *Flavoparmelia caperata* as test organism**

E. Pellegrini, S. Bertuzzi, F. CandottoCarniel, G. Lorenzini, C. Nali, M. Tretiach 1514

**Absence of endo-1,4- $\beta$ -glucanase KOR1 alters the Jasmonate-dependent defence response to *Pseudomonas syringae* in *Arabidopsis***

J. López-Cruz, I. Finiti, E. Fernández-Crespo, O. Crespo-Salvador, P. García-Agustín, C. González-Bosch 1524

### MOLECULAR BIOLOGY

**Different tobacco retrotransposons are specifically modulated by the elicitor cryptogein and reactive oxygen species**

I.-A. Anca, J. Fromentin, Q.T. Bui, C. Mhiri, M.-A. Grandbastien, F. Simon-Plas 1533

### SHORT COMMUNICATIONS

**ZCT1 and ZCT2 transcription factors repress the activity of a gene promoter from the methyl erythritol phosphate pathway in Madagascar periwinkle cells**

M. Chebbi, O. Ginis, V. Courdavault, G. Glévarec, A. Lanoue, M. Clastre, N. Papon, C. Gaillard, R. Atanassova, B. St-Pierre, N. Giglioli-Guivarc'h, M. Courtois, A. Oudin 1510

**Assessment of candidate reference genes for the expression studies with brassinosteroids in *Lolium perenne* and *Triticum aestivum***

B. Jurczyk, E. Pociecha, A. Janeczko, R. Paczyński, M. Rapacz 1541

### BOOK REVIEWS

**The Cell Biology of Cyanobacteria**

S. Dunker 1453

**Plant Cell Morphogenesis: Methods and Protocols**

K.R. Konrad 1461

**Table of Contents** also available via e-mail by free-of-charge ToC Alert Service.Register: [www.elsevier.com/locate/jplph](http://www.elsevier.com/locate/jplph)**Abstracted/Index in**

Biochemistry &amp; Biophysics Citation Index; Bioscience Information System (BIOSIS); CAB Abstracts; Cambridge Scientific Abstracts (CSA); Chemical Abstracts Service (CAS); Current Awareness in Biological Sciences (CABS); Current Contents/Life Sciences; Current Contents/Agriculture, Biology &amp; Environmental Sciences; Engineering Information/Compendex (CPX); Food Science and Technology Abstracts (FSTA); MEDLINE; Reference Update; Research Alert; Science Citation Index; SciExpanded; SciSearch. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®.