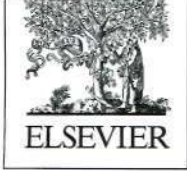


111  
J80/PP



Volume 170, issue 1, 1 January 2013, ISSN 0176-1617

Volume 170

**1**  
2013

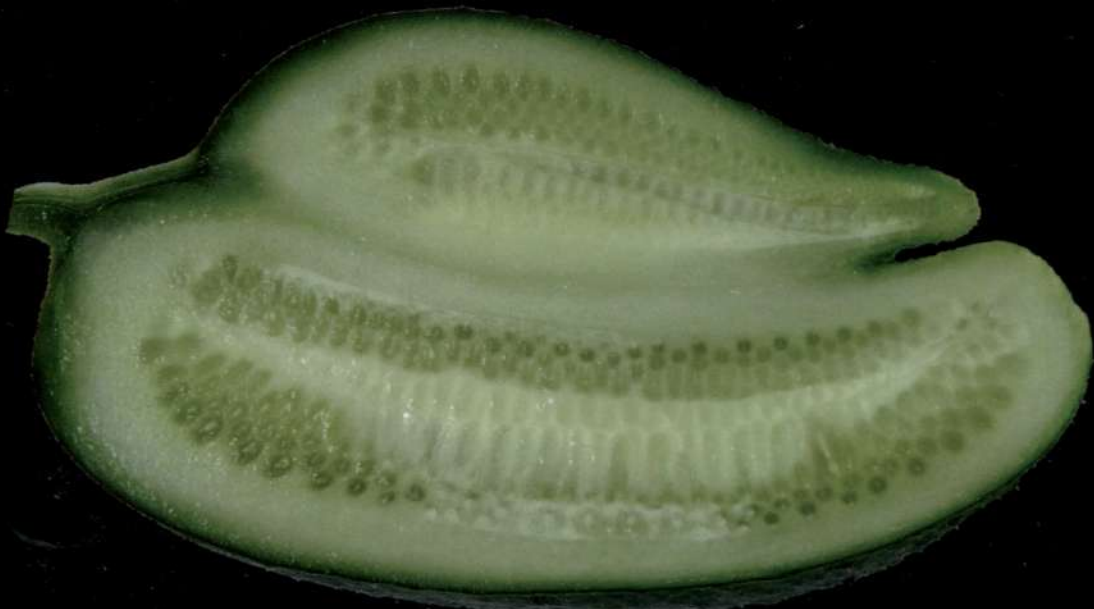
# JOURNAL OF PLANT PHYSIOLOGY

Biochemistry, Physiology, Molecular Biology and Functional Biotechnology of Plants



In Affiliation with FESPB

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



# Journal of Plant Physiology

Volume 170, Issue 1, Pages 1-120 (1 January 2013)

## Editorial Board

Page ii

### PHYSIOLOGY

#### **A novel allelopathic substance, 13-*epi*-orthosiphol N, in *Orthosiphon stamineus***

Original Research Article

Pages 1-5

Hisashi Kato-Noguchi, Naoko Hamada, Maho Morita, Kiyotake Suenaga

#### **Redox changes accompanying storage protein mobilization in moist chilled and warm incubated walnut kernels prior to germination**

Original Research Article

Pages 6-17

Zeynab Shahmoradi, Fatemeh Tamaskani, Hamid Reza Sadeghipour, Ahmad Abdolzadeh

#### **Separation of abscission zone cells in detached *Azolla* roots depends on apoplastic pH**

Original Research Article

Pages 18-24

Kazuma Fukuda, Yoshiya Yamada, Kensuke Miyamoto, Junichi Ueda, Eiji Uheda

#### **Venus flytrap biomechanics: Forces in the *Dionaea muscipula* trap**

Original Research Article

Pages 25-32

Alexander G. Volkov, Shawn L. Harris II, Chrystelle L. Vilfranc, Veronica A. Murphy, Joseph D. Wooten, Henoc Paulicin, Maia I. Volkova, Vladislav S. Markin

#### **A novel C–S lyase from the latex-producing plant *Taraxacum brevicorniculatum* displays alanine aminotransferase and L-cystine lyase activity**

Original Research Article

Pages 33-40

Oliver Munt, Dirk Prüfer, Christian Schulze Gronover

## **Phytosiderophore release by wheat genotypes differing in zinc deficiency tolerance grown with Zn-free nutrient solution as affected by salinity**

Original Research Article

Pages 41-46

Bahareh Daneshbakhsh, Amir Hossein Khoshgoftarmanesh, Hossein Shariatmadari, Ismail Cakmak

## **Arbuscular mycorrhizal symbiosis influences strigolactone production under salinity and alleviates salt stress in lettuce plants**

Original Research Article

Pages 47-55

Ricardo Aroca, Juan Manuel Ruiz-Lozano, Ángel María Zamarreño, José Antonio Paz, José María García-Mina, María José Pozo, Juan Antonio López-Ráez

## **Ethylene-induced overproduction of reactive oxygen species is responsible for the development of watersoaking in immature cucumber fruit**

Original Research Article

Pages 56-62

Brandon M. Hurr, Donald J. Huber, C. Eduardo Vallejos, Eunkyung Lee, Steven A. Sargent

## **Methyl jasmonate-induced lateral root formation in rice: The role of heme oxygenase and calcium**

Original Research Article

Pages 63-69

Yun Yen Hsu, Yun-Yang Chao, Ching Huei Kao

## **Responses of epidermal cell turgor pressure and photosynthetic activity of leaves of the atmospheric epiphyte *Tillandsia usneoides* (Bromeliaceae) after exposure to high humidity**

Original Research Article

Pages 70-73

Craig E. Martin, Guido Rux, Werner B. Herppich

## **Arbuscular mycorrhizal fungal inoculation increases phenolic synthesis in clover roots via hydrogen peroxide, salicylic acid and nitric oxide signaling pathways**

Original Research Article

Pages 74-79

Rui-Qin Zhang, Hong-Hui Zhu, Hai-Quan Zhao, Qing Yao

MOLECULAR BIOLOGY

## **Bioinformatics prediction of miRNAs in the *Prunus persica* genome with**

## **validation of their precise sequences by miR-RACE**

Original Research Article

*Pages 80-92*

Yanping Zhang, Youhuang Bai, Jian Han, Ming Chen, Emrul Kayesh, Weibing Jiang, Jingui Fang

## **Overexpression of OrbHLH001, a putative helix–loop–helix transcription factor, causes increased expression of *AKT1* and maintains ionic balance under salt stress in rice**

Original Research Article

*Pages 93-100*

Yuan Chen, Fei Li, Yan Ma, Kang Chong, Yunyuan Xu

---

### SHORT COMMUNICATIONS

## **The GmCLC1 protein from soybean functions as a chloride ion transporter**

*Pages 101-104*

Tak-Hong Wong, Man-Wah Li, Xiao-Qiang Yao, Hon-Ming Lam

## **Dimerization and protease resistance: New insight into the function of PR-1**

*Pages 105-110*

Shunwen Lu, Justin D. Faris, Robert Sherwood, Michael C. Edwards

## **Alternative oxidase 1 (*Aox1*) gene expression in roots of *Medicago truncatula* is a genotype-specific component of salt stress tolerance**

*Pages 111-114*

Haythem Mhadhbi, Vasileios Fotopoulos, Photini V. Mylona, Moez Jebara, Mohamed Elarbi Aouani, Alexios N. Polidoros

## **Molecular cloning and characterization of cDNAs encoding carotenoid cleavage dioxygenase in bitter melon (*Momordica charantia*)**

*Pages 115-120*

Pham Anh Tuan, Sang Un Park