

174 /  
A 60/8

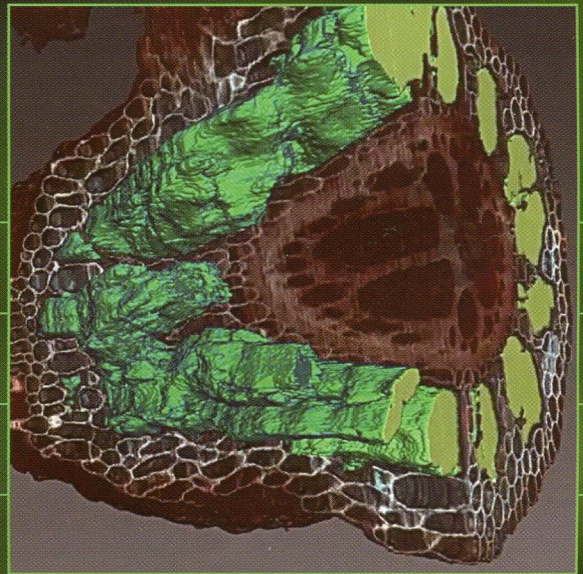
# ANNALS OF BOTANY

Founded 1887

Volume 113

Number 1

January 2014



[www.aob.oxfordjournals.org](http://www.aob.oxfordjournals.org)

ISSN 0305-7364 (PRINT)  
ISSN 1095-8290 (ONLINE)



---

# ANNALS OF BOTANY

Founded 1887

---

Volume 113 Number 1 January 2014

Content *Snapshots* i

Plant Cuttings: news in botany iv

## VIEWPOINT

---

Baudouin, L., Gunn, B. F. and Olsen, K. M. The presence of coconut in southern Panama in pre-Columbian times: clearing up the confusion 1

---

## REVIEWS

---

Jin, C. W., Ye, Y. Q. and Zheng, S. J. An underground tale: contribution of microbial activity to plant iron acquisition via ecological processes 7

---

Fusconi, A. Regulation of root morphogenesis in arbuscular mycorrhizae: what role do fungal exudates, phosphate, sugars and hormones play in lateral root formation? 19

---

## ORIGINAL ARTICLES

---

Sundue, M. A. and Rothfels, C. J. Stasis and convergence characterize morphological evolution in eupolypod II ferns 35

---

Nevill, P. G., Bradbury, D., Williams, A., Tomlinson, S. and Krauss, S. L. Genetic and palaeo-climatic evidence for widespread persistence of the coastal tree species *Eucalyptus gomphocephala* (Myrtaceae) during the Last Glacial Maximum 55

---

Pavlovič, A., Krausko, M., Libiaková, M. and Adamec, L. Feeding on prey increases photosynthetic efficiency in the carnivorous sundew *Drosera capensis* 69

---

Ye, Q., Tang, F., Wei, N. and Yao, X. Molecular and quantitative trait variation within and among small fragmented populations of the endangered plant species *Psilopogonum sinense* 79

---

Corpas, F. J. and Barroso, J. B. Peroxynitrite (ONOO<sup>-</sup>) is endogenously produced in arabidopsis peroxisomes and is overproduced under cadmium stress 87

---

Armbruster, W. S., Corbet, S. A., Vey, A. J. M., Liu, S.-J. and Huang, S.-O. In the right place at the right time: *Parnassia* resolves the herkogamy dilemma by accurate repositioning of stamens and stigmas 97

---

Horbens, M., Feldner, A., Höfer, M. and Neinhuis, C. Ontogenetic tissue modification in *Malus* fruit peduncles: the role of sclereids 105

---

Contents continued on inside back cover



Scan to view this journal  
on your mobile device

OXFORD  OPEN

OXFORD  
UNIVERSITY PRESS



<b>Barrett, C. F., Specht, C. D., Leebens-Mack, J., Stevenson, D. Wm., Zomlefer, W. B. and Davis, J. I.</b> Resolving ancient radiations: can complete plastid gene sets elucidate deep relationships among the tropical gingers (Zingiberales)?	119
<b>Koutsovoulou, K., Daws, M. I. and Thanos, C. A.</b> Campanulaceae: a family with small seeds that require light for germination	135
<b>Baldissera, T. C., Frak, E., Carvalho, P. C. D. F. and Louarn, G.</b> Plant development controls leaf area expansion in alfalfa plants competing for light	145
<b>Eliášová, A., Trávníček, P., Mandák, B. and Münzbergová, Z.</b> Autotetraploids of <i>Vicia cracca</i> show a higher allelic richness in natural populations and a higher seed set after artificial selfing than diploids	159
<b>Cao, D., Baskin, C. C., Baskin, J. M., Yang, F. and Huang, Z.</b> Dormancy cycling and persistence of seeds in soil of a cold desert halophyte shrub	171
<b>Hu, B., Henry, A., Brown, K. M. and Lynch, J. P.</b> Root cortical aerenchyma inhibits radial nutrient transport in maize ( <i>Zea mays</i> )	181
<b>TECHNICAL ARTICLE</b>	
<b>Kron, P., Kwok, A. and Husband, B. C.</b> Flow cytometric analysis of pollen grains collected from individual bees provides information about pollen load composition and foraging behaviour	191

For more information about *Annals of Botany* please visit our website at [www.aob.oxfordjournals.org](http://www.aob.oxfordjournals.org)

#### **Disclaimer**

Statements of fact and opinion in the articles in *Annals of Botany* are those of the respective authors and contributors and not of *Annals of Botany* Company or Oxford University Press. Neither Oxford University Press nor *Annals of Botany* Company make any representation, express or implied, in respect of the accuracy of the material in this journal and cannot accept any legal responsibility or liability for any errors or omissions that may be made. The reader should make his/her own evaluation as to the appropriateness or otherwise of any experimental technique described.