

TM
A60/8

ANNALS OF BOTANY

Founded 1887



Volume 114
Number 3
September 2014



www.aob.oxfordjournals.org

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

ANNALS OF BOTANY

Founded 1887

Volume 114 Number 3 September 2014

ContentSnapshots

i

Plant Cuttings: news in botany

iii

ORIGINAL ARTICLES

Blackman, C. J., Gleason, S. M., Chang, Y., Cook, A. M., Laws, C. and Westoby, M. Leaf hydraulic vulnerability to drought is linked to site water availability across a broad range of species and climates 435

Zhang, Z.-Q., Zhu, X.-F., Sun, H., Yang, Y.-P. and Barrett, S. C. H. Size-dependent gender modification in *Lilium apertum* (Liliaceae): does this species exhibit gender diphasy? 441

Hardion, L., Verlaque, R., Saltonstall, K., Leriche, A. and Vila, B. Origin of the invasive *Arundo donax* (Poaceae): a trans-Asian expedition in herbaria 455

Muggia, L., Pérez-Ortega, S., Kopun, T., Zellnig, G. and Grube, M. Photobiont selectivity leads to ecological tolerance and evolutionary divergence in a polymorphic complex of lichenized fungi 463

Yao, Z., Tian, J. and Liao, H. Comparative characterization of *GmSPX* members reveals that *GmSPX3* is involved in phosphate homeostasis in soybean 477

Dwivedi, K. K., Roche, D. J., Clemente, T. E., Ge, Z. and Carman, J. G. The *OCL3* promoter from *Sorghum bicolor* directs gene expression to abscission and nutrient-transfer zones at the bases of floral organs 489

Gu, J., Yin, X., Zhang, C., Wang, H. and Struik, P. C. Linking ecophysiological modelling with quantitative genetics to support marker-assisted crop design for improved yields of rice (*Oryza sativa*) under drought stress 499

Lohier, T., Jabot, F., Meziane, D., Shipley, B., Reich, P. B. and Deffuant, G. Explaining ontogenetic shifts in root-shoot scaling with transient dynamics 513

Fini, A., Guidi, L., Giordano, C., Baratto, M. C., Ferrini, F., Brunetti, C., Calamai, L. and Tattini, M. Salinity stress constrains photosynthesis in *Fraxinus ornus* more when growing in partial shading than in full sunlight: consequences for the antioxidant defence system 525

Dufay, M., Champelovier, P., Käfer, J., Henry, J. P., Mousset, S. and Marais, G. A. B. An angiosperm-wide analysis of the gynodioecy-dioecy pathway 539

Contents continued on inside back cover



Scan to view this journal
on your mobile device

OXFORD  OPEN

OXFORD
UNIVERSITY PRESS



Wang, G., Ding, G., Li, L., Cai, H., Ye, X., Zou, J. and Xu, F. Identification and characterization of improved nitrogen efficiency in interspecific hybridized new-type <i>Brassica napus</i>	549
Marks, T. R., Seaton, P. T. and Pritchard, H. W. Desiccation tolerance, longevity and seed-siring ability of entomophilous pollen from UK native orchid species	561
Hernández-Serrano, A., Verdú, M., Santos-del-Blanco, L., Climent, J., González-Martínez, S. C. and Pausas, J. G. Heritability and quantitative genetic divergence of serotiny, a fire-persistence plant trait	571
Tozer, M. G. and Ooi, M. K. J. Humidity-regulated dormancy onset in the Fabaceae: a conceptual model and its ecological implications for the Australian wattle <i>Acacia saligna</i>	579
Pagès, L. Branching patterns of root systems: quantitative analysis of the diversity among dicotyledonous species	591

For more information about *Annals of Botany* please visit our website at 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.