

NU
A60/b

Highlight on
Clonal Plant Ecology

ANNALS OF BOTANY

Founded 1887

Volume 114

Number 2

August 2014



www.aob.oxfordjournals.org

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

ANNALS OF BOTANY

Founded 1887

Volume 114 Number 2 August 2014

Content *Snapshots* i

Plant Cuttings: news in botany iv

ORIGINAL ARTICLES

Šantrůček, J., Vráblová, M., Šimková, M., Hronková, M., Drtinová, M., Květoň, J., Vrábl, D., Kubásek, J., Macková, J., Wiesnerová, D., Neuwithová, J. and Schreiber, L. Stomatal and pavement cell density linked to leaf internal CO₂ concentration 191

Avital, A. and Paris, H. S. Cucurbits depicted in Byzantine mosaics from Israel, 350–600 CE 203

Arbellay, E., Stoffel, M., Sutherland, E. K., Smith, K. T. and Falk, D. A. Changes in tracheid and ray traits in fire scars of North American conifers and their ecophysiological implications 223

Nikolov, L. A., Tomlinson, P. B., Manickam, S., Endress, P. K., Kramer, E. M. and Davis, C. C. Holoparasitic Rafflesiaceae possess the most reduced endophytes and yet give rise to the world's largest flowers 233

Galián, J. A., Rosato, M. and Rosselló, J. A. Incomplete sequence homogenization in 45S rDNA multigene families: intermixed IGS heterogeneity within the single NOR locus of the polyploid species *Medicago arborea* (Fabaceae) 243

Zarrei, M., Stefanović, S. and Dickinson, T. A. Reticulate evolution in North American black-fruited hawthorns (*Crataegus* section *Douglasia*; Rosaceae): evidence from nuclear ITS2 and plastid sequences 253

Wang, X., Tam, N. F.-Y., Fu, S., Ametkhan, A., Ouyang, Y. and Ye, Z. Selenium addition alters mercury uptake, bioavailability in the rhizosphere and root anatomy of rice (*Oryza sativa*) 271

Gao, R., Yang, X., Yang, F., Wei, L., Huang, Z. and Walck, J. L. Aerial and soil seed banks enable populations of an annual species to cope with an unpredictable dune ecosystem 279

Mráz, P., Tarbush, E. and Müller-Schärer, H. Drought tolerance and plasticity in the invasive knapweed *Centaurea stoebe* s.l. (Asteraceae): effect of populations stronger than those of cytotype and range 289

Peguero-Pina, J. J., Sancho-Knapik, D., Barrón, E., Camarero, J. J., Vilagrosa, A. and Gil-Pelegrín, E. Morphological and physiological divergences within *Quercus ilex* support the existence of different ecotypes depending on climatic dryness 301

Contents continued on inside back cover



Scan to view this journal
on your mobile device

OXFORD  OPEN

OXFORD
UNIVERSITY PRESS



Tomlinson, K. W., Poorter, L., Bongers, F., Borghetti, F., Jacobs, L. and van Langevelde, F. Relative growth rate variation of evergreen and deciduous savanna tree species is driven by different traits	315
Tixier, A., Herbette, S., Jansen, S., Capron, M., Tordjeman, P., Cochard, H. and Badel, E. Modelling the mechanical behaviour of pit membranes in bordered pits with respect to cavitation resistance in angiosperms	325
Deslauriers, A., Beaulieu, M., Balducci, L., Giovannelli, A., Gagnon, M. J. and Rossi, S. Impact of warming and drought on carbon balance related to wood formation in black spruce	335
White, A. C., Colmer, T. D., Cawthray, G. R. and Hanley, M. E. Variable response of three <i>Trifolium repens</i> ecotypes to soil flooding by seawater	347
Ballhorn, D. J. and Elias, J. D. Salinity-mediated cyanogenesis in white clover (<i>Trifolium repens</i>) affects trophic interactions	357
CLONAL PLANT ECOLOGY	
Dong, M., Yu, F.-H. and Alpert, P. Ecological consequences of plant clonality	367
Cornelissen, J. H. C., Song, Y.-B., Yu, F.-H. and Dong, M. Plant traits and ecosystem effects of clonality: a new research agenda	369
Herben, T., Nováková, Z. and Klimešová, J. Clonal growth and plant species abundance	377
Oborny, B. and Hubai, A. G. Patch size and distance: modelling habitat structure from the perspective of clonal growth	389
Roiloa, S. R., Antelo, B. and Retuerto, R. Physiological integration modifies $\delta^{15}\text{N}$ in the clonal plant <i>Fragaria vesca</i> , suggesting preferential transport of nitrogen to water-stressed offspring	399
James, E. A. and McDougall, K. L. Spatial genetic structure reflects extensive clonality, low genotypic diversity and habitat fragmentation in <i>Grevillea renwickiana</i> (Proteaceae), a rare, sterile shrub from south-eastern Australia	413
Qi, S.-S., Dai, Z.-C., Miao, S.-L., Zhai, D.-L., Si, C.-C., Huang, P., Wang, R.-P. and Du, D.-L. Light limitation and litter of an invasive clonal plant, <i>Wedelia trilobata</i> , inhibit its seedling recruitment	425

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.