Review articles
The function of the aerenchyma in arborescent lycopsids: evidence of an unfamiliar metabolic strategy
W. A. Green

Comments and invited replies
Are participation rates sufficient to explain gender differences in chess performance?
M. Knapp

Research articles
Projected impacts of climate change on regional capacities for global plant species richness
J. M. Sommer, H. Kreft, G. Kier, W. Jetz, J. Mutke & W. Barthlott

A common perceptual temporal limit of binding synchronous inputs across different sensory attributes and modalities
W. Fujisaki & S. Nishida

Recovery of mechano-electrical transduction in rat cochlear hair bundles after postnatal destruction of the stereociliar cross-links
J. Ebert, S. Fink, A. Koitschev, P. Walther, M. G. Langer & F. Lehmann-Horn

Nanostructure and mechanics of mammified type I collagen from the 5300-year-old Tyrolean Iceman
M. Janko, A. Zink, A. M. Gigler, W. M. Heckl & R. W. Stark

Plant green-island phenotype induced by leaf-miners is mediated by bacterial symbionts
W. Kaiser, E. Huguet, J. Casas, C. Commin & D. Giron

Chaotic Red Queen coevolution in three-species food chains
F. Dercole, R. Ferriere & S. Rinaldi

Temporal genetic change in the last remaining population of woolly mammoth
V. Nyström, L. Dalén, S. Vartanyan, K. Lidén, N. Ryman & A. Angerbjörn

Dispersal scales up the biodiversity–productivity relationship in an experimental source–sink metacommunity
P. A. Venail, R. C. Maclean, C. N. Meynard & N. Mouquet

Mating tactics determine patterns of condition dependence in a dimorphic horned beetle
R. J. Knell & L. W. Simmons

Impacts of poor food availability on positive density dependence in a highly colonial seabird
K. Asfawberhan, S. Wandle, M. P. Harris & K. C. Hamer

A strong quantitative trait locus for wing length on chromosome 2 in a wild population of great reed warblers

Antagonistic effects of floral scent in an insect–plant interaction
C. E. Reisenman, J. A. Riffel, E. A. Bernays & J. C. Hildebrand

DNA transposon dynamics in populations of Daphnia pulex with and without sex
S. Schaack, E. J. Pritham, A. Wolf & M. Lynch

Nutrient provisioning facilitates homeostasis between tsetse fly (Diptera: Glossinidae) symbionts

Under a neighbour's influence: public information affects stress hormones and behaviour of a songbird
J. M. Cornelius, C. W. Breuner & T. P. Hahn

The health of a nation predicts their mate preferences: cross-cultural variation in women's preferences for masculinized male faces
L. M. DeBruine, B. C. Jones, J. R. Crawford, L. L. M. Welling & A. C. Little

A rift between implicit and explicit conditioned valence in human pain relief learning
M. Andreatta, A. Mühlberger, A. Yarali, B. Gerber & P. Pauli