Editorial
Looking forward to another successful year 1
M. Hassell
Research articles
Balance between maternal and paternal alleles sets the timing of resource accumulation in the maize endosperm 3
N. Li & H. G. Dickinson
Mechanical implications of pneumatic neck vertebrae in sauropod dinosaurs 11
A kinetic model that explains the effect of inorganic phosphate on the mechanics and energetics of isometric contraction of fast skeletal muscle 19
M. Linari, M. Caremani & V. Lombardi
Attention focusing in a sit-and-wait forager: a spider controls its prey-detection ability in different web sectors by adjusting thread tension 29
K. Nakata
Sigma viruses from three species of *Drosophila* form a major new clade in the rhabdovirus phylogeny 35
B. Longdon, D. J. Clibbon & E. M. Lyons
Activational effects of odours on avian navigation 45
P. E. Jorge, P. A. M. Marques & J. B. Phillips
Tuberculosis in Dr Granville’s mummy: a molecular re-examination of the earliest known Egyptian mummy to be scientifically examined and given a medical diagnosis 51
Androgen receptor gene sequence and basal cortisol concentrations predict men’s hormonal responses to potential mates 57
J. R. Roney, Z. L. Simmons & A. W. Lucaszenko
*Drosophila* male sex peptide inhibits siesta sleep and promotes locomotor activity in the post-mated female 65
R. E. Isaac, C. Li, A. E. Leadbeater & A. D. Sheras
Small within-day increases in temperature affects boldness and alters personality in coral reef fish 71
P. A. Bro, C. Beckmann & J. A. Stamps
Both population size and patch quality affect local extinctions and colonizations 79
M. Frati & S. C. Nelson
Symbiosis-dependent gene expression in coral–dinoflagellate association: cloning and characterization of a P-type *H*-ATPase gene 87
A. Bertucci, É. Tambutté, S. Tambutté, D. Allemand & D. Zoccola
Phylogenetic structure of angiosperm communities during tropical forest succession 97
S. G. Letcher
Female reproductive strategies in orangutans, evidence for female choice and counterstrategies to infanticide in a species with frequent sexual coercion 105
C. D. Knott, M. E. Thompson, R. M. Stumpf & M. H. McIntyre
The unexpected but understandable dynamics of mating, patriarchy and paternal care in the ocellated wrasse 115
S. H. Akre & R. L. Hedman
Antimicrobial chemicals in hoopoe preen secretions are produced by symbiotic bacteria 123
Evidence that two main bottleneck events shaped modern human genetic diversity 131
W. Amos & J. I. Hoffman
Long-term changes in metapopulation genetic structure: a quarter-century retrospective study on low-Arctic rock pool *Daphnia* 139
L. J. Weider, D. Frisch & P. D. N. Hebert
Rooks perceive support relations similar to six-month-old babies 147
C. D. Red & N. J. Emery
Low-quality females prefer low-quality males when choosing a mate 153
M.-J. Holveck & K. Riebel