Review articles
Developmental palaeontology in synapsids: the fossil record of ontogeny in mammals and their closest relatives
M. R. Sánchez-Villagra

Comments and invited replies
Bet-hedging as an evolutionary game: the trade-off between egg size and number
M. Rees, C. Jessica, E. Metcalf & D. Z. Childs
What is bet-hedging, really?
J. Ripa, R. Olsson & N. Jonzon

Research articles
A photoactivatable green-fluorescent protein from the phylum Ctenophora
S. H. D. Haddock, N. Mastroianni & L. M. Christianson
Selective biodegradation of keratin matrix in feather rachis reveals classic bioengineering
T. Lingham-Soliar, R. H. C. Bonser & J. Wesley-Smith

Climate change and spring-fruiting fungi
H. Kauserud, E. Freygang, M. A. Semenov, L. Chr. Stige, T. H. Sparks, A. C. Gange & N. Chr. Stenseth

Fitts’ law is not continuous in reciprocal aiming
R. Hoy, I. Fernandez, R. J. Boitom & V. K. Jina

Poverty trap formed by the ecology of Infectious diseases
M. H. Bons, D. C. Kienman, P. Rohani & J. D. Sachs

The dead do not lie: using skeletal remains for rapid assessment of historical small-mammal community baselines
R. C. Terry

Sex allocation in yellow-legged gulls (Larus michallevii) depends on nutritional constraints on production of large last eggs
W. Sano, M. Romanos, M. Caprimi, R. Andrade, D. Rubolini & M. Facula

Visual gaze control during peering flight manoeuvres in honeybees
N. Roddizelke, B. & J. immun

Inheritance of nesting behaviour across natural equal environmental variation in a turtle with temperature-dependent sex determination
S. E. Mckerlie, L. E. Schaan, R. M. Bonden, J. F.forcement & J. J. Jansen

Diversity trends and their ontogenetic basis: an exploration of allometric disparity in rodents
L. A. B. Wilson & M. R. Sánchez-Villagra

Implications of flexible-shelled eggs in a Cretaceous choristoderan reptile

Optic flow informs distance but not profitability for honeybees
S. Shafir & A. B. Barron

Multiple signals and male spacing affect female preference at cocktail parties in treefrogs
C. Richardson & T. Lengagne

Transverse stresses and modes of failure in tree branches and other beams
A. R. Ennos & A. van Casteren

Asian population consequences of climate change on more for long-distance migrants in seasonal habitats

Distributed leadership and adaptive decision-making in the ant Tetramorium caespitum
B. Collignon & C. Detrain

Vigilance against predators induced by eavesdropping on heterospecific alarm calls in a non-vocal lizard Oplurus cuvieri cuvier (Reptilia: Iguania)
R. Ito & A. Mori

Climatic warming increases volatinism in European butterflies and moths
I. Asterni

Atractiellomycetes belonging to the ‘rust’ lineage (Pucciniomycotina) form mycorrhizae with terrestrial and epiphytic neotropical orchids
I. Kottke, J. P. Suárez, P. Herrera, D. Cruz, R. Bauer, I. Haug & S. Garnica