Review articles
The extended evolutionary synthesis and the role of soft inheritance in evolution 2913
T. E. Dickins & Q. Rahman

Antibiotic resistance in human Salmonella isolates are related to animal strains 2922
P. Collignon

The diversity of antimicrobial resistance is different in Salmonella Typhimurium DT104 from co-located animals and humans 2924
A. S. Mather, L. Matthews, D. J. Mellor, M. J. Denwood, P. Boerlin, R. J. Reid-Smith, D. J. Brown, J. E. Coia, L. M. Browning, D. T. Hopkins & S. W. J. Reid

Commentaries
BEC1/2 mutations, fertility and the grandmother effect 2926
J. da Silva

Research articles
Risk and the evolution of human exchange 2930
H. S. Kaplan, E. Schniter, V. L. Smith & B. J. Wilson

Modes and mechanisms of a Daphnia invasion 2936
F. Speak, J. Fox & N. C. Hamson

Uptake wing flexion and the inertial cost of fast flight 2940
D. K. Riskin, A. Bergou, K. S. Brown & L. M. Swartz

Effects of diurnally oscillating CO2 on the calcification and survival of coral recruits 2951
A. M. Dufault, R. E. Carter, T. F. Far & R. J. Edmunds

A size specific trade-off between mating preferences for genetic compatibility and body size in a cichlid fish with mutual male choice 2959
T. Tshikedi, D. Moufani, T. M. Baker & A. Babar

The central role of the host cell in symbiotic nitrogen metabolism 2965

Syntactic structure and geographical dialects in the songs of male rock hyraxes 2974
A. Kershenbaum, A. Ilany, L. Blaustein & E. Geffen

Host modulation of parasite competition in multiple infections 2982
Y. Ulrich & P. Schmid-Hempel

Life-history theory, chronic childhood illness and the timing of first reproduction in a British birth cohort 2998
D. Waynforth

Impaired immune evasion in HIV through intracellular delays and multiple infection of cells 3005
C. L. Althaus & R. J. De Boer

Intracellular community size structure and ecosystem functioning 3011

Plants-kill feedbacks provide an additional explanation for diversity-productivity relationships 3020
A. Kuchle, R. B. Ebel & J. Hauri

Cooperation and the evolution of intelligence 3027
L. Milinski, T. E. Bonn & A. Jackson

Dermal keratin in early tetrapods: a palaeophysiological hypothesis of adaptation for terrestrialization 3035
M. C. Janis, K. Delfin, C. D. Wiklund & B. Radwanska

Biomineral ultrastructure, elemental constitution and genomic analysis of biomineralization-related proteins in hemichordates 3041
C. B. Cameron & C. D. Bishop

The role of moulting in parasite defence 3049
D. Garaud & B. Oben

Speciation with gene flow in a heterogeneous virtual world: can physical obstacles accelerate speciation? 3055
A. Colotl, O. Cole & M. Cristescu

Olfactory shape and motion of undulatory swimming organisms 3065
C. Toell & D. K. P. Yue

Insertions and deletions trigger adaptive walks in Drosophila proteins 3075
T. V. Levesque, L. B. J. Burke & R. S. Kondrashov

A novel megalomorph using structure in Indo-Pacific bottlenose dolphins (Tursiops spp.): complex male alliances in an open social network 3083
S. Randic, R. C. Connor, W. B. Sherwin & M. Krützen

Spatiotopic perceptual maps in humans: evidence from motion adaptation 3091
O. Caram & D. Marinis

Species richness matters for the quality of ecosystem services: a test using seed dispersal by frugivorous birds 3106
D. García & D. Martínez

Historical pesticide applications coincided with an altered diet of aerially foraging insectivorous chimney swifts 3114