Research articles

Evolutionary position of breviate amoebae and the primary eukaryote divergence 597
M. A. Minge, J. D. Silberman, R. J. S. Ott, T. Cavalier-Smith, K. Schlüchtern-Tafuri, F. Buth, Å. Skjerve and K. S. Jakobsen

Evolution of trust and trustworthiness: social awareness favours personality differences 605
J. M. McNamara, P. A. Stephens, S. R. X. Dall and A. I. Houston

A 2000 km genetic wake yields evidence for northern glacial refugia and hybrid zone movement in a pair of songbirds 615
M. Krosby and S. Rohwer

Spatial and temporal pattern for the dentition in the Australian lungfish revealed with sonic hedgehog expression profile 623
M. M. Smith, M. Okabe and J. Joss

Insects had it first: surfactants as a defence against predators 633
M. Rostás and K. Blassmann

DNA barcoding insect-host plant associations 639
J. A. Juras-Rivers, A. P. Vogler, C. A. M. Reid, E. Petitpierre and J. Gómez-Zuniga

Infrared radiation from hot cones on cool conifers attracts seed-feeding insects 649
S. Takács, H. Bottomley, J. Andrén, T. Zaradnik, J. Schwarz, R. Bennett, W. Strung and G. Gries

A new theory of MHC evolution: beyond selection on the immune genes 657
C. van Oosterhout

Defrayacy acidity in theropods: palaeobiological and evolutionary implications 667
D. K. Zelenitsky, J. Themen and Y. Kobayashi

Testing the island rule: primates as a case study 675
J. J. Welch

Sprint and endurance power and ageing: an analysis of master athletic world records 683
R. Kihlström, P. E. di Prampero, N. Mathé and M. V. Narici

Interactions among co-infecting parasite species: a mechanism maintaining genetic variation in parasites? 691
S. Sepulveda, A. Karvonen, E. T. Vanonen and J. Jalila

Long-term reciprocation of grooming in wild African chimpanzees 699
C. M. Goodes, R. Murray and C. Beach

Compensatory investment in zebra finches: females lay larger eggs when paired to sexually unattractive males 707
E. Bolund, H. Schielzeth and W. Forstmeier

The ocean is not deep enough: pressure tolerances during early ontogeny of the blue mussel Mytilus edulis 717
N. C. Mestre, S. T Jalay and P. A. Tyler

Converging migration routes of Eurasian hobbies Falco subbuteo crossing the African equatorial rain forest 727
R. Strandberg, R. H. G. Klaassen, M. Hake, P. Olsson and T. Alenius

Mechanisms and evolution of hypoxia tolerance in fish 735
M. Marutz, A. E. Toddham and J. C. Richards

Adaptive plasticity of mammalian sperm production in response to social experience 745
S. A. Ram and P. Stockley

Disruptive selection in a bimodal population of Darwin’s finches 753
A. P. Hendry, S. K. Hander, L. T. de Leon, A. Hennis and J. Toates

Evidence for novel and specialized mycorrhizal parasitism: the orchid Gastrodia confusa gains carbon from saprotrophic Mycenae 761
Y. Ogura-Tsujita, G. Gebauer, T. Hashimoto, H. Horiguchi and T. Dukawa

Recognition of other species’ aerial alarm calls: speaking the same language or learning another? 769
R. D. Magrath, B. J. Pitcher and J. C. Choe

The strength of a female mate preference increases with predation risk 775
T. W. Kim, J. H. Christy, S. Dennenmoser and J. C. Cho

Outline and surface disruption in animal camouflage 781
M. Stevens, S. W. Senney, A. Cantor and J. Graham

Social personality trait and fitness 787
J. Cote, A. Dress and J. Cobert

Acoustic experience shapes female mate choice in field crickets 787
N. W. Bailey and M. Zuk

Disruptive selection in a bimodal population of Darwin’s finches 753
A. P. Hendry, S. K. Hander, L. T. de Leon, A. Hennis and J. Toates