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The validity and value of inclusive fitness theory
A. F. G. Bourke

Transitional forms between the three domains of life and evolutionary implications
E. G. Reynaud & D. P. Devos

Research articles
Extremely long-distance seed dispersal by an overfished Amazonian frugivore

Genomic sweep and potential genetic rescue during limiting environmental conditions in an isolated wolf population

Frugivore loss limits recruitment of large-seeded trees
O. M. Wotton & D. Kelly

Hibernation is associated with increased survival and the evolution of slow life histories among mammals
C. Turbill, C. Bieber & T. Ruf

Invasive predatory crayfish do not trigger inducible defences in tadpoles
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Sea urchin tube feet are photosensory organs that express a rhabdomeric-like opsin and PAX6
M. P. Lesser, K. L. Carleton, S. A. Böttger, T. M. Barry & C. W. Walker

Migration by soaring or flapping: numerical atmospheric simulations reveal that turbulence kinetic energy dictates bee-eater flight mode
N. Sapir, N. Horvitz, M. Wilkens, R. Avisar, Y. Mahrer & R. Nathan

Parasitoid diversity reduces the variability in pest control services across time on farms
S. Macfadyen, P. G. Craze, A. Polaszek, K. van Achterberg & J. Memmott

Comparison of cytotoxic T lymphocyte efficacy in acute and persistent lymphocytic choriomeningitis virus infection

Bell miner provisioning calls are more similar among relatives and are used by helpers at the nest to bias their effort towards kin
P. C. McDonald & J. Wright

Temporal variation in temperature determines disease spread and maintenance in Paramoecium microcosm populations
A. B. Duncan, S. Fellous & O. Katz

Natural ‘poor start’ does not increase mortality over the lifetime
H. Dreummond, C. Rodríguez & D. Oro

Costly punishment prevails in intergroup conflict
L. Saalwächter, T. Mappes & M. Pautz

Rainfall-induced changes in food availability modify the spring departure programme of a migratory bird
C. E. Studie & P. P. Marra

Expansion of mass-flowering crops leads to transient pollinator dilution and reduced wild plant pollination
A. Holzschuh, C. F. Dormann, T. Tscharntke & I. Steffan-Dewenter

Familiarity affects the assessment of female facial signals of fertility by free-ranging male rhesus macaques

A late-surviving basal theropod dinosaur from the latest Triassic of North America
H.-D. Sues, S. J. Nesbitt, D. S. Berman & A. C. Henrici