



## Animal behaviour

- 589 Interspecific audience effects on the alarm-calling behaviour of a kleptoparasitic bird  
A. R. Ridley, M. F. Child & M. B. V. Bell
- 592 Complexity and variation in loggerhead sea turtle life history  
C. M. McClellan & A. J. Read
- 595 Re-plumbing in a Mediterranean sponge  
D. Mendola, J. G. M. van den Boogaart, J. L. van Leeuwen & R. H. Wijffels
- 599 Chimpanzees use self-distraction to cope with impulsivity  
T. A. Evans & M. J. Beran
- 603 On the use of cellular telephony for audio interaction with animals  
D. Joachim & E. Goodale
- 607 Larval rearing environment affects several post-copulatory traits in *Drosophila melanogaster*  
L. A. McGraw, A. C. Fiumera, M. Ramakrishnan, S. Madhavarapu, A. G. Clark & M. F. Wolfner
- 611 Four-legged friend or foe? Dog walking displaces native birds from natural areas  
P. B. Banks & J. V. Bryant
- 614 Extrinsic effects, estimating opponents' RHP, and the structure of dominance hierarchies  
L. A. Dugatkin & A. D. Dugatkin
- 617 Monogamy on the fast track  
E. Adkins-Regan & M. Tomaszycycki
- 620 Fear, human shields and the redistribution of prey and predators in protected areas  
J. Berger
- 624 Variable fledging age according to group size: trade-offs in a cooperatively breeding bird  
N. J. Raihani & A. R. Ridley
- 628 Steroid hormones in bluegill, a species with male alternative reproductive tactics including female mimicry  
R. Knapp & B. D. Neff
- 632 Heterospecific alarm call recognition in a non-vocal reptile  
M. N. Vitousek, J. S. Adelman, N. C. Gregory & J. J. H. St Clair
- 635 Receiver bias for exaggerated signals in honeybees and its implications for the evolution of floral displays  
D. Naug & H. S. Arathi

## Community ecology

- 638 Landscape context not patch size determines bumble-bee density on flower mixtures sown for agri-environment schemes  
M. S. Heard, C. Carvell, N. L. Carreck, P. Rothery, J. L. Osborne & A. F. G. Bourke
- 642 A multiple-site similarity measure independent of richness  
A. Baselga, A. Jiménez-Valverde & G. Niccolini

## Evolutionary biology

- 646 Two waves of diversification in mammals and reptiles of Baja California revealed by hierarchical Bayesian analysis  
A. D. Leaché, S. C. Crews & M. J. Hickerson
- 651 Function of weaponry in females: the use of horns in intrasexual competition for resources in female Soay sheep  
M. R. Robinson & L. E. B. Kruuk
- 655 Effects of metabolic rate on protein evolution  
J. F. Gillooly, M. W. McCoy & A. P. Allen
- 660 Genetic analysis of a wild-caught hybrid between non-sister *Heliconius* butterfly species  
K. K. Dasmahapatra, A. Silva-Vásquez, J.-W. Chung & J. Mallet
- 664 Genetic and environmental contributions to prosocial behaviour in 2- to 9-year-old South Korean twins  
Y.-M. Hur & J. P. Rushton
- 667 Strong parasitoid-mediated selection in experimental populations of aphids  
J. Herzog, C. B. Müller & C. Vorburger
- 670 Urban birds have broader environmental tolerance  
F. Bonier, P. R. Martin & J. C. Wingfield
- 674 Age-related shapes of the cost of reproduction in vertebrates  
G. Proaktor, E. J. Milner-Gulland & T. Coulson
- 678 Are we underestimating the diversity and incidence of insect bacterial symbionts? A case study in ladybird beetles  
L. A. Weinert, M. C. Tinsley, M. Temperley & F. M. Jiggins
- 682 Voice pitch predicts reproductive success in male hunter-gatherers  
C. L. Apicella, D. R. Feinberg & F. W. Marlowe

- 685 Context-dependent genetic benefits of polyandry in a marine hermaphrodite  
D. J. Marshall & J. P. Evans
- 689 Parental age difference and offspring count in humans  
M. Fieder & S. Huber
- 692 Rodent sociality and parasite diversity  
F. Bordes, D. T. Blumstein & S. Morand

## Global change biology

- 695 Interspecies physiological variation as a tool for cross-species assessments of global warming-induced endangerment: validation of an intrinsic determinant of macroecological and phylogeographic structure  
J. Bernardo, R. J. Ossola, J. Spotila & K. A. Crandall
- 699 Ocean acidification disrupts induced defences in the intertidal gastropod *Littorina littorea*  
R. Bibby, P. Cleall-Harding, S. Rundle, S. Widdicombe & J. Spicer

## Molecular evolution

- 702 Elevated substitution rates estimated from ancient DNA sequences  
S. Y. W. Ho, S.-O. Kolokotronis & R. G. Allaby

## Neurobiology

- 706 Absence of contagious yawning in children with autism spectrum disorder  
A. Senju, M. Maeda, Y. Kikuchi, T. Hasegawa, Y. Tojo & H. Osanai

## Palaeontology

- 709 Miocene whale-fall from California demonstrates that cetacean size did not determine the evolution of modern whale-fall communities  
N. D. Pyenson & D. M. Haasl

## Population ecology

- 712 The 'lost years' of green turtles: using stable isotopes to study cryptic lifestages  
K. J. Reich, K. A. Bjorndal & A. B. Bolten

## Population genetics

- 715 Comment. Virgin birth, genetic variation and inbreeding  
P. W. Hedrick
- 717 Indexes

Volume Title Page and Table of Contents



Founded in 1660, the Royal Society is the independent scientific academy of the UK, dedicated to promoting excellence in science

Registered Charity No 207043



[www.journals.royalsoc.ac.uk](http://www.journals.royalsoc.ac.uk)

Published in Great Britain by the Royal Society, 6–9 Carlton House Terrace, London SW1Y 5AG