



Animal behaviour

- 113 Learning influences host choice in tsetse**
J. Bouyer, M. Pruvot, Z. Bengaly, P. M. Guerin & R. Lancelot
- 117 Malagasy birds as hosts for eye-frequenting moths**
R. Hilgartner, M. Raoilison, W. Büttiker, D. C. Lees & H. W. Krenn
- 121 Precopulatory stabbing, hypodermic injections and unilateral copulations in a hermaphroditic sea slug**
N. Anthes & N. K. Michiels
- 125 Scent may signal fighting ability in male Iberian rock lizards**
J. Martín & P. López
- 128 Stress impacts telomere dynamics**
A. Kotrschal, P. Ilmonen & D. J. Penn
- 131 Like mother, like daughter: inheritance of nest-site location in snakes**
G. P. Brown & R. Shine
- 134 Early learning influences species assortative mating preferences in Lake Victoria cichlid fish**
M. N. Verzijden & C. ten Cate
- 137 When to use social information: the advantage of large group size in individual decision making**
A. J. King & G. Cowlishaw
- 140 Making good choices with variable information: a stochastic model for nest-site selection by honeybees**
B. S. Perdriau & M. R. Myerscough
- 144 Green swordtails alter their age at maturation in response to the population level of male ornamentation**
C. A. Walling, N. J. Royle, N. B. Metcalfe & J. Lindström
- 147 Aggression and conflict management at fusion in spider monkeys**
F. Aureli & C. M. Schaffner
- 150 Host finding in aphids and the handicaps of trapping methods**
T. F. Döring & J. Hardie
- 152 How to investigate a putative signal? Stick to the right method when assessing the response of a receiver**
H. M. Schaefer & G. Rolshausen

Evolutionary biology

- 154 Disrupting the timing of *Wolbachia*-induced male-killing**
S. Charlat, N. Davies, G. K. Roderick & G. D. D. Hurst
- 157 No evidence that polymorphisms of brain regulator genes *Microcephalin* and *ASPM* are associated with general mental ability, head circumference or altruism**
J. P. Rushton, P. A. Vernon & T. A. Bons
- 161 Nematode parasites reduce carotenoid-based signalling in male red grouse**
J. Martínez-Padilla, F. Mougeot, L. Pérez-Rodríguez & G. R. Bortolotti
- 165 Genetically enhanced growth causes increased mortality in hypoxic environments**
L. Sundt-Hansen, L. F. Sundström, S. Einum, K. Hindar, I. A. Fleming & R. H. Devlin
- 169 Right-handed snakes: convergent evolution of asymmetry for functional specialization**
M. Hoso, T. Asami & M. Hori

- 173 Parallel tool industries in New Caledonian crows**
G. R. Hunt & R. D. Gray

- 176 Social common mole-rats enhance outbreeding via extra-pair mating**
J. M. Bishop, C. O'Ryan & J. U. M. Jarvis

Genome biology

- 180 The origin of mitochondria in light of a fluid prokaryotic chromosome model**
C. Esser, W. Martin & T. Dagan

Marine biology

- 185 Linking sandeel consumption and the likelihood of starvation in harbour porpoises in the Scottish North Sea: could climate change mean more starving porpoises?**
C. D. MacLeod, M. B. Santos, R. J. Reid, B. E. Scott & G. J. Pierce

Molecular evolution

- 189 Mitochondrial DNA recombination in a free-ranging Australian lizard**
B. Ujvari, M. Dowton & T. Madsen

Palaeontology

- 193 Late Holocene extinction of Puerto Rican native land mammals**
S. T. Turvey, J. R. Oliver, Y. M. Narganes Storde & P. Rye
- 197 Exceptional preservation of nerve and muscle tissues in Late Devonian placoderm fish and their evolutionary implications**
K. Trinajstić, C. Marshall, J. Long & K. Bifield
- 201 Using ghost lineages to identify diversification events in the fossil record**
L. Cavin & P. L. Forey

Phylogeny

- 205 Phylogenetic relationships and divergence times of Charadriiformes genera: multigene evidence for the Cretaceous origin of at least 14 clades of shorebirds**
A. J. Baker, S. L. Pereira & T. A. Paton

Population ecology

- 210 Interaction between host genotype and environmental conditions affects bacterial density in *Wolbachia* symbiosis**
L. Mouton, H. Henri, D. Charif, M. Boulétreau & F. Vavre
- 214 Tyrannosaur ageing**
R. E. Ricklefs

Population genetics

- 218 A private allele ubiquitous in the Americas**
K. B. Schroeder, T. G. Schurr, J. C. Long, N. A. Rosenberg, M. H. Crawford, L. A. Tarskaia, L. P. Osipova, S. I. Zhadanov & D. G. Smith



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

Registered Charity No 207043



FirstCite®
e-publishing

www.journals.royalsoc.ac.uk

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