

Animal behaviour

- 319 **A quick guide to video-tracking birds**
L. A. Bluff & C. Rutz
- 323 **Successful same-sex pairing in Laysan albatross**
L. C. Young, B. J. Zaun & E. A. VanderWerf
- 326 **Predator-specific camouflage in chameleons**
D. Stuart-Fox, A. Moussalli & M. J. Whiting
- 330 **Sensitivity to reward loss as an indicator of animal emotion and welfare**
O. H. P. Burman, R. M. A. Parker, E. S. Paul & M. Mendl
- 334 **Sex differences in responsiveness to begging in a cooperative mammal**
S. English, H. P. Kunc, J. R. Madden & T. H. Clutton-Brock
- 338 **Aggression, sex and individual differences in cerebral lateralization in a cichlid fish**
A. R. Reddon & P. L. Hurd

Biomechanics

- 341 **Fluttering wing feathers produce the flight sounds of male streamertail hummingbirds**
C. J. Clark

Community ecology

- 345 **Plant community composition, not diversity, regulates soil respiration in grasslands**
D. Johnson, G. K. Phoenix & J. P. Grime

Evolutionary biology

- 349 **Comment. Males, females and the value of toy models: a commentary on Bookstein *et al.* (2008)**
H. Kokko
- 351 **Fowl play and the price of petrel: long-living Procellariiformes have peroxidation-resistant membrane composition compared with short-living Galliformes**
W. A. Buttemer, H. Battam & A. J. Hulbert
- 355 **Concealed weapons: erectile claws in African frogs**
D. C. Blackburn, J. Hanken & F. A. Jenkins Jr
- 358 **One hundred million years of skin feeding? Extended parental care in a Neotropical caecilian (Amphibia: Gymnophiona)**
M. Wilkinson, A. Kupfer, R. Marques-Porto, H. Jeffkins, M. M. Antoniazzi & C. Jared
- 362 **A monogamous pipefish has the same type of ovary as observed in monogamous seahorses**
A. Sogabe, K. Matsumoto, M. Ohashi, A. Watanabe, H. Takata, Y. Murakami, K. Omori & Y. Yanagisawa
- 366 **Phylogenomics reveals a new 'megagroup' including most photosynthetic eukaryotes**
F. Burki, K. Shalchian-Tabrizi & J. Pawlowski
- 370 **Correlating Bayesian date estimates with climatic events and domestication using a bovine case study**
S. Y. W. Ho, G. Larson, C. J. Edwards, T. H. Heupink, K. E. Lakin, P. W. H. Holland & B. Shapiro
- 375 **Mating system and *avpr1a* promoter variation in primates**
L. Rosso, L. Keller, H. Kaessmann & R. L. Hammond
- 379 **A label of health: a previous immune challenge is reflected in the expression of a female plumage trait**
S. A. Hanssen, D. Hasselquist, I. Folstad & K. E. Erikstad
- 382 **Population divergence in plant species reflects latitudinal biodiversity gradients**
S. H. Eo, J. P. Wares & J. P. Carroll
- 385 **Experimental evidence for latent developmental plasticity: intertidal whelks respond to a native but not an introduced predator**
T. C. Edgell & C. J. Neufeld

Global change biology

- 388 **Delayed phenological timing of dragonfly emergence in Japan over five decades**
H. Doi
- 392 **Environmental deterioration increases tadpole vulnerability to predation**
Z. E. Squires, P. C. E. Bailey, R. D. Reina & B. B. M. Wong

Marine biology

- 395 **Transatlantic migration and deep mid-ocean diving by basking shark**
M. A. Gore, D. Rowat, J. Hall, F. R. Gell & R. F. Ormond

Molecular evolution

- 399 **Body temperature predicts maximum microsatellite length in mammals**
W. Amos & A. Clarke

Neurobiology

- 402 **Sleeping outside the box: electroencephalographic measures of sleep in sloths inhabiting a rainforest**
N. C. Rattenborg, B. Voirin, A. L. Vyssotski, R. W. Kays, K. Spoelstra, F. Kuemmeth, W. Heidrich & M. Wikelski

Palaeontology

- 406 **Three-dimensional molar enamel distribution and thickness in *Australopithecus* and *Paranthropus***
A. J. Olejniczak, T. M. Smith, M. M. Skinner, F. E. Grine, R. N. M. Feeney, J. F. Thackeray & J.-J. Hublin
- 411 **Salamander-like development in a seymouriamorph revealed by palaeohistology**
S. Sanchez, J. Klembara, J. Castanet & J. S. Steyer

Physiology

- 415 **The carotid rete and artiodactyl success**
G. Mitchell & A. Lust

Population ecology

- 419 **Are silica defences in grasses driving vole population cycles?**
F. P. Massey, M. J. Smith, X. Lambin & S. E. Hartley

Population genetics

- 423 **Species detection using environmental DNA from water samples**
G. F. Ficetola, C. Miaud, F. Pompanon & P. Taberlet
- 426 **Mitochondrial sequence divergence among Antarctic killer whale ecotypes is consistent with multiple species**
R. G. LeDuc, K. M. Robertson & R. L. Pitman
- 430 **A coalescent framework for comparing alternative models of population structure with genetic data: evolution of *Celebes* toads**
B. J. Evans, J. A. McGuire, R. M. Brown, N. Andayani & J. Supriatna
- 434 **Admixture determines genetic diversity and population differentiation in the biological invasion of a lizard species**
J. J. Kolbe, A. Larson, J. B. Losos & K. de Queiroz
- 438 **Non-neutral processes drive the nucleotide composition of non-coding sequences in *Drosophila***
P. R. Haddrill & B. Charlesworth



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

Registered Charity No 207043



journals.royalsociety.org

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