



- Animal behaviour**
- 481 **The influence of social affiliation on individual vocal signatures of northern resident killer whales (*Orcinus orca*)**  
A. E. Nousek, P. J. B. Slater, C. Wang & P. J. O. Miller
- 485 **Rotational feeding in caecilians: putting a spin on the evolution of cranial design**  
G. J. Measey & A. Herrel
- 488 **Avian predators attack aposematic prey more forcefully when they are part of an aggregation**  
J. Skelhorn & G. D. Ruxton
- 491 **Sex-role reversed nuptial feeding reduces male kleptoparasitism of females in Zeus bugs (Heteroptera; Veliidae)**  
G. Arnqvist, T. M. Jones & M. A. Elgar
- 494 **Anatomical basis for camouflaged polarized light communication in squid**  
L. M. Mäthger & R. T. Hanlon
- 497 **A killer whale social network is vulnerable to targeted removals**  
R. Williams & D. Lusseau
- 501 **Parent–offspring conflict and motivational control of brooding in an amphipod (Crustacea)**  
J. T. A. Dick & R. W. Elwood
- 505 **Chimpanzee and felid diet composition is influenced by prey brain size**  
S. Shultz & R. I. M. Dunbar
- 509 **Killer whales are capable of vocal learning**  
A. D. Foote, R. M. Griffin, D. Howitt, L. Larsson, P. J. O. Miller & A. R. Hoelzel
- 513 **Paternity loss in contrasting mammalian societies**  
T. H. Clutton-Brock & K. Isvaran
- 517 **Consistent annual schedules in a migratory shorebird**  
P. F. Battley
- 521 **Silent night: adaptive disappearance of a sexual signal in a parasitized population of field crickets**  
M. Zuk, J. T. Rotenberry & R. M. Tinghitella
- 525 **The courtship-inhibiting pheromone is ignored by female-deprived gregarious desert locust males**  
K. Seidelmann
- Community ecology**
- 528 **Connecting the dots: an invariant migration corridor links the Holocene to the present**  
J. Berger, S. L. Cain & K. Murray Berger
- 532 **Niche breadth and geographical range: ecological compensation for geographical rarity in rainforest frogs**  
Y. M. Williams, S. E. Williams, R. A. Alford, M. Waycott & C. N. Johnson
- Evolutionary biology**
- 536 **Sexual selection and its effect on the fixation of an asexual clone**  
M. Salathé
- 539 **Adaptive divergence of scaling relationships mediates the arms race between a weevil and its host plant**  
H. Toju & T. Sota
- 543 **Diversification of Neoaves: integration of molecular sequence data and fossils**  
P. G. P. Ericson, C. L. Anderson, T. Britton, A. Elzanowski, U. S. Johansson, M. Källersjö, J. I. Ohlson, T. J. Parsons, D. Zuccon & G. Mayr
- 548 **On the origin of the *Synodontis* catfish species flock from Lake Tanganyika**  
J. J. Day & M. Wilkinson
- 553 **Mate choice assays and mating propensity differences in natural yeast populations**  
H. A. Murphy, H. A. Kuehne, C. A. Francis & P. D. Sniegowski
- 557 **Metabolic costs of brain size evolution**  
K. Isler & C. P. van Schaik
- 561 **Correlated evolution between hearing sensitivity and social calls in bats**  
K. M. Bohn, C. F. Moss & G. S. Wilkinson
- 565 **Insects from the grazing food web favoured the evolutionary habitat shift to bright environments in araneoid spiders**  
T. Miyashita & A. Shimazaki
- 569 **Consistent sex ratio bias of individual female dragon lizards**  
T. Uller, B. Mott, G. Odierna & M. Olsson
- 573 **Long-term maternal effect on offspring immune response in song sparrows *Melospiza melodia***  
J. M. Reid, P. Arcese, L. F. Keller & D. Hasselquist
- 577 **Nepotism and brood reliability in the suppression of worker reproduction in the eusocial Hymenoptera**  
P. Nonacs
- Evolutionary developmental biology**
- 580 **Gut reaction by heartless shrimps: experimental evidence for the role of the gut in generating circulation before cardiac ontogeny**  
J. I. Spicer
- 583 **Extrafloral nectary phenotypic plasticity is damage- and resource-dependent in *Vicia faba***  
E. B. Mondor, M. N. Tremblay & R. H. Messing
- 586 **Where do all the maternal effects go? Variation in offspring body size through ontogeny in the live-bearing fish *Poecilia parae***  
A. K. Lindholm, J. Hunt & R. Brooks
- Marine biology**
- 590 **Muscle fibre number varies with haemoglobin phenotype in Atlantic cod as predicted by the optimal fibre number hypothesis**  
I. A. Johnston, M. Abercromby & Ø. Andersen
- 593 **A novel obligate cultivation mutualism between damselfish and *Polysiphonia* algae**  
H. Hata & M. Kato
- 597 **Fathers in hot water: rising sea temperatures and a Northeastern Atlantic pipefish baby boom**  
R. R. Kirby, D. G. Johns & J. A. Lindley
- Molecular evolution**
- 601 **Typing single polymorphic nucleotides in mitochondrial DNA as a way to access Middle Pleistocene DNA**  
C. Valdiosera, N. García, L. Dalén, C. Smith, R.-D. Kahlke, K. Lidén, A. Angerbjörn, J. L. Arsuaga & A. Götherström
- 604 **Contrasting patterns of sequence divergence and base composition between *Drosophila* introns and intergenic regions**  
L. Ometto, D. De Lorenzo & W. Stephan
- Neurobiology**
- 608 **Olfactory memory capacity of the cricket *Gryllus bimaculatus***  
Y. Matsumoto & M. Mizunami
- Palaeontology**
- 611 **Prey choice and cannibalistic behaviour in the theropod *Coelophysis***  
S. J. Nesbitt, A. H. Turner, G. M. Erickson & M. A. Norell
- 615 **An archaic crested plesiosaur in opal from the Lower Cretaceous high-latitude deposits of Australia**  
B. P. Kear, N. I. Schroeder & M. S. Y. Lee
- Pathogen biology**
- 620 **Endophytic fungus decreases plant virus infections in meadow ryegrass (*Lolium pratense*)**  
P. T. Lehtonen, M. Helander, S. A. Siddiqui, K. Lehto & K. Saikkonen
- Population ecology**
- 624 **Linking ecology, behaviour and conservation: does habitat saturation change the mating system of bearded vultures?**  
M. Carrete, J. A. Donazar, A. Margalida & J. Bertran
- 628 **Ocean climate prior to breeding affects the duration of the nesting period in the Atlantic puffin**  
J. M. Durant, T. Anker-Nilssen & N. Chr. Stenseth
- 632 **Selectivity of harvesting differs between local and foreign roe deer hunters: trophy stalkers have the first shot at the right place**  
A. Mysterud, P. Tryjanowski & M. Panek
- 636 **Low intensity, mixed livestock grazing improves the breeding abundance of a common insectivorous passerine**  
D. M. Evans, S. M. Redpath, S. A. Evans, D. A. Elston, C. J. Gardner, P. Dennis & R. J. Pakeman
- Population genetics**
- 639 **Low worldwide genetic diversity in the basking shark (*Cetorhinus maximus*)**  
A. R. Hoelzel, M. S. Shivji, J. Magnussen & M. P. Francis
- 643 **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



FirstCite®  
e-publishing

[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