Review articles
Mimics without models: causes and consequences of allopatry in Batesian mimicry complexes
D. W. Pfennig & S. P. Mullen

Research articles
Global drivers of human pathogen richness and prevalence
R. B. Dunn, T. J. Davies, N. C. Harris & M. C. Castrici
Calcification provides mechanical reinforcement to whale baleen α-keratin
L. J. Sze, D. C. de Kerckhove, C. W. Grime & D. S. Fudge
A splitting image: specializations in archeopteryx eyes for vision at the interface between air and water
Excavated substrate modulates growth instability during nest building in ants
E. Toffin, J. Kindekens & J.-L. Deneubourg
To eat or not to eat: egg-based assessment of paternity triggers fine-tuned decisions about filial cannibalism
M. Mehlis, T. C. M. Bakker, L. Engqvist & S. C. Frommen
Complex cognition and behavioural innovation in New Caledonian crows
Evolutionary speed limited by water in arid Australia
X. Goldie, L. Confer, M. Crisp & S. Wright
Trisomy and triploidy are sources of embryo mortality in the zebra finch
W. Forstmann & E. Hegel
Social vocalizations can release oxytocin in humans
L. J. Seltzer, T. E. Ziegler & S. D. Pollak
Inbreeding tolerance and fitness costs in wild bottlenose dolphins
C. H. Fire, M. Kristian, A. M. Kopp, P. Ward, J. Mann & W. B. Sherwin
Two pulses of diversification across the Isthmus of Tehuantepec in a montane Mexican bird fauna
R. R. Barber & J. Klicka
The molecular physiology of increased egg desiccation resistance during diapause in the invasive mosquito, Aedes albopictus
Fronts, jumps and secondary introductions suggested as different invasion patterns in marine species, with an increase in spread rates over time
F. Mineur, A. J. Davies, C. A. Maggs, M. Verlaque & M. P. Johnson
Divergence in behaviour between the European corn borer, Ostrinia nubilalis, and its sibling species, Ostrinia scapulalis: adaptation to human harvesting?
V. Calcagno, V. Bonhomme, V. Thomas, M. C. Singer & D. Bourguet
The evolution of migration in a seasonal environment
C. K. Griswold, C. M. Taylor & D. R. Norris
Diversity dynamics of Miocene mammals in relation to the history of tectonism and climate
J. A. Finarelli & C. Badgley
The evolution of sex-specific grandparental harm
W. R. Rice, S. Gavrilets & U. Friberg

See further with the Royal Society in 2010 – celebrate 350 years
rspb.royalsocietypublishing.org
Published in Great Britain by the Royal Society, 6–9 Carlton House Terrace, London SW1Y 5AG

Founded in 1660, the Royal Society is the independent scientific academy of the UK, dedicated to promoting excellence in science.
Registered Charity No 207043

ISSN 0962-8452
volume 277
number 1694
pages 2577–2735
7 September 2010