Review articles
Refugia revisited: individualistic responses of species in space and time 661
J. R. Stewart, A. M. Lister, I. Barnes & L. Dalén

Comments and invited replies
Assortment, Hamilton’s rule and multilevel selection 673
P. Bijma & D. K. Aanen
Assortment is a more fundamental explanation for the evolution of altruism than inclusive fitness or multilevel selection: reply to Bijma and Aanen 677
J. A. Fletcher & M. Doebeli

Research articles
Philanthropy and migration of Pacific white sharks 679

Multiple speciation events in an arthropod with divergent evolution in sexual morphology 689
T. Tosa & T. Tanaka

Genetic analyses of historic and modern marbled murrelets suggest decoupling of migration and gene flow after habitat fragmentation 697

Scaling of swim speed and stroke frequency in geometrically similar penguins: they swim optimally to minimize cost of transport 707
R. van Woesik

Personality matters: individual variation in reactions of naive bird predators to aposematic prey 723
A. Exnerová, K. H. Svádová, E. Fucíková, P. Drent & P. Štys

Local extinction synchronizes population dynamics in spatial networks 729
S. F. Matter & J. Roland

Ineffective crypsis in a crab spider: a prey community perspective 739
R. Brechbühl, J. Cane & S. Bacher

Inhospitable sweetness: nectar filtering of pollinator-borne inocula leads to impoverished, phylogenetically clustered yeast communities 747
C. M. Herrera, A. Castro, M. I. Pozo & P. Bazaga

Colony fusion and worker reproduction after queen loss in army ants 755
D. J. C. Kronauer, C. Schöning, P. d’Ettorre & J. J. Boomsma

A single wind-mediated mechanism explains high-altitude ‘non-goal oriented’ headings and layering of nocturnally migrating insects 765
A. M. Reynolds, D. R. Reynolds, A. D. Smith & J. W. Chapman

Damped trophic cascades driven by fishing in model marine ecosystems 795
K. H. Andersen & M. Pedersen

The highly efficient holding function of the mollusc ‘catch’ muscle is not based on decelerated myosin head cross-bridge cycles 803
S. Galler, J. Litzlbauer, M. Kröss & H. Grassberger

The relationship between mutation frequency and replication strategy in positive-sense single-stranded RNA viruses 809
G. Thébaud, J. Chadœuf, M. J. Morelli, J. W. McCauley & D. T. Haydon