



Cover: A bright yellow lemon damselfish (*Pomacentrus moluccensis*) surrounded by the more inconspicuous cardinalfishes of the genus *Apogon*. While sharing the same habitat during the day, cardinalfish are mostly nocturnal feeders, whereas damselfish are generally diurnal. Both express several visual pigment genes, so-called opsins, in their photoreceptor cells, and Luehrmann et al. (jeb175281) show that both are able to modify the expression of these opsins to changing light environments. This may allow colour vision tuning throughout their lifetime as habitat light or tasks change, and builds on several recent studies suggesting that colour vision is more adaptable and plastic than previously thought. Photo credit: Justin Marshall.

INSIDE JEB

Ants swing and probe with antennae to stay on scent track
Knight, K.
jeb193664

How hawkmoths surf flower wakes on windy days
Knight, K.
jeb193672

Thin-blooded icefish relocate carbonic anhydrase to gill
Knight, K.
jeb193680

Free-loading swifts ride the air
Knight, K.
jeb192567

Mosquitoes not bothered that humans smell different from apes
Knight, K.
jeb193656

Algal oxygen boost could help hot rock pool dwellers on sunny days
Knight, K.
jeb193649

CONVERSATION

Early-career researchers: an interview with Chris Richards
jeb195958

COMMENTARY

The fallacy of the P_{crit} – are there more useful alternatives?
Wood, C. M.
jeb163717

REVIEW

Making a point: shared mechanics underlying the diversity of biological puncture
Anderson, P. S. L.
jeb187294

SHORT COMMUNICATIONS

Substantial heat tolerance acclimation capacity in tropical thermophilic snails, but to what benefit?
Marshall, D. J., Brahim, A., Mustapha, N., Dong, Y. and Sinclair, B. J.
jeb187476

Muscle fibers bear a larger fraction of passive muscle tension in frogs compared with mice
Meyer, G. and Lieber, R. L.
jeb182089

Reanalysis of an oft-cited paper on honeybee magnetoreception reveals random behavior
Baltzley, M. J. and Nabity, M. W.
jeb185454

RESEARCH ARTICLES

The yellow specialist: dronefly *Eristalis tenax* prefers different yellow colours for landing and proboscis extension
An, L., Neimann, A., Eberling, E., Algora, H., Brings, S. and Lunau, K.
jeb184788

Alligator mississippiensis sternal and shoulder girdle mobility increase stride length during high walks
Baier, D. B., Garrity, B. M., Moritz, S. and Carney, R. M.
jeb186791

Should I stay or should I go? The settlement-inducing protein complex guides barnacle settlement decisions
Kotsiri, M., Protopapa, M., Mouratidis, S., Zachariadis, M., Vassilakos, D., Kleidas, I., Samiotaki, M. and Dedos, S. G.
jeb185348

A solution to Nature's haemoglobin knockout: a plasma-accessible carbonic anhydrase catalyses CO₂ excretion in Antarctic icefish gills
Harter, T. S., Sackville, M. A., Wilson, J. M., Metzger, D. C. H., Egginton, S., Esbaugh, A. J., Farrell, A. P. and Brauner, C. J.
jeb190918

Carpenter ants use diverse antennae sampling strategies to track odor trails
Draft, R. W., McGill, M. R., Kapoor, V. and Murthy, V. N.
jeb185124

Hawkmoth flight in the unsteady wakes of flowers
Matthews, M. and Sponberg, S.
jeb179259

Gliding for a free lunch: biomechanics of foraging flight in common swifts (*Apus apus*)
Hedrick, T. L., Pichot, C. and de Margerie, E.
jeb186270

Do apes smell like humans? The role of skin bacteria and volatiles of primates in mosquito host selection
Verhulst, N. O., Umanets, A., Weldegergis, B. T., Maas, J. P. A., Visser, T. M., Dicke, M., Smidt, H. and Takken, W.
jeb185959

Short-term colour vision plasticity on the reef: changes in opsin expression under varying light conditions differ between ecologically distinct fish species
Luehrmann, M., Stieb, S. M., Carleton, K. L., Pietzker, A., Cheney, K. L. and Marshall, N. J.
jeb175281

Drosophila DNA/RNA methyltransferase contributes to robust host defense in aging animals by regulating sphingolipid metabolism

Abhyankar, V., Kaduskar, B., Kamat, S. S., Deobagkar, D. and Ratnaparkhi, G. S.

jeb187989

Acoustic communication in marine shallow waters: testing the acoustic adaptive hypothesis in sand gobies

Amorim, M. C. P., Vasconcelos, R. O., Bolgan, M., Pedroso, S. S. and Fonseca, P. J.

jeb183681

Biomechanical effects of augmented ankle power output during human walking

Fickey, S. N., Browne, M. G. and Franz, J. R.

jeb182113

Static stability predicts the continuum of interleg coordination patterns in *Drosophila*

Szczecinski, N. S., Bockemühl, T., Chockley, A. S. and Büschges, A.

jeb189142

Breathing with floating ribs: XROMM analysis of lung ventilation in savannah monitor lizards

Cieri, R. L., Moritz, S., Capano, J. G. and Brainerd, E. L.

jeb189449

Effects of experimental manipulation of hematocrit on avian flight performance in high- and low-altitude conditions

Yap, K. N., Dick, M. F., Guglielmo, C. G. and Williams, T. D.

jeb191056

Evidence of embryonic regulation of maternally derived yolk corticosterone

Wilson Carter, A., Bowden, R. M. and Paitz, R. T.

jeb182600

Hyperoxia increases maximum oxygen consumption and aerobic scope of intertidal fish facing acutely high temperatures

McArley, T. J., Hickey, A. J. R. and Herbert, N. A.

jeb189993

Jumping mechanics of desert kangaroo rats

Schwane, M. J., Lin, D. C. and McGowan, C. P.

jeb186700

Interaction between step-to-step variability and metabolic cost of transport during human walking

Rock, C. G., Marmelat, V., Yentes, J. M., Siu, K.-C. and Takahashi, K. Z.

jeb181834

Dietary canthaxanthin reduces xanthophyll uptake and red coloration in adult red-legged partridges

Alonso-Alvarez, C., García-de Blas, E. and Mateo, R.

jeb185074