



Cover: A gyrfalcon during an aerial chase. Brighton et al. (jeb238493) used GPS trackers to record the intercept flight trajectories of captive-bred gyrfalcons. Computer modelling revealed that these naive gyrfalcons, which had never previously hunted, followed the same proportional navigation guidance law as peregrine falcons, but with a lower navigation constant that promotes tail-chasing rather than efficient interception. Photo credit: International Wildlife Consultants UK Ltd.

INSIDE JEB

Touchy octopuses pull arms back when they feel light
Knight, K.
jeb242426

Novice gyrfalcons cut straight to the kill on maiden flight
Knight, K.
jeb242415

OUTSIDE JEB

Buzzing bees grab and go while leisurely hoverflies lunch
Basu, C.
jeb235168

Socialites boosted but loners set back in a crowd
Nadler, L.
jeb235200

Climate change may push zebrafish to the brink
Murillo, A.
jeb235192

Tool-shaped ladybird hairs guarded by protein
Kaimaki, D.-M.
jeb235184

Freshwater snails' stinky environment could kill their babies
Mantica, G.
jeb235176

OBITUARY

Michael Francis Land FRS, 1942–2020
Nilsson, D.-E.
jeb242427

COMMENTARY

Are mitochondria the main contributor of reactive oxygen species in cells?
Zhang, Y. and Wong, H. S.
jeb221606

SHORT COMMUNICATION

Thirst and drinking in North American watersnakes (*Nerodia* spp.)
Edwards, M., Sheehy, 3rd, C. M., Fedler, M. T. and Lillywhite, H. B.
jeb241414

METHODS & TECHNIQUES

Rhythmic auditory stimuli modulate movement recovery in response to perturbation during locomotion
Ravi, D. K., Bartholet, M., Skiadopoulou, A., Kent, J. A., Wickstrom, J., Taylor, W. R., Singh, N. B. and Stergiou, N.
jeb237073

RESEARCH ARTICLES

Plasticity in parental effects confers rapid larval thermal tolerance in the estuarine anemone *Nematostella vectensis*
Rivera, H. E., Chen, C.-Y., Gibson, M. C. and Tarrant, A. M.
jeb236745

Pendulum-based measurements reveal impact dynamics at the scale of a trap-jaw ant
Jorge, J. F., Bergbreiter, S. and Patek, S. N.
jeb232157

Comparative cranial biomechanics in two lizard species: impact of variation in cranial design
Dutel, H., Gröning, F., Sharp, A. C., Watson, P. J., Herrel, A., Ross, C. F., Jones, M. E. H., Evans, S. E. and Fagan, M. J.
jeb234831

The Murphy number: how pitch moment of inertia dictates quadrupedal walking and running energetics
Polet, D. T.
jeb228296

Feel the light: sight-independent negative phototactic response in octopus arms
Katz, I., Shomrat, T. and Neshet, N.
jeb237529

Early developmental stages of native populations of *Ciona intestinalis* under increased temperature are affected by local habitat history
Clutton, E. A., Alurralde, G. and Repolho, T.
jeb233403

Masticatory system integration in a commensal canid: interrelationships between bones, muscles and bite force in the red fox
Brassard, C., Merlin, M., Monchâtre-Leroy, E., Guintard, C., Barrat, J., Garès, H., Larralle, A., Triquet, R., Houssin, C., Callou, C., Cornette, R. and Herrel, A.
jeb224394

Testing the influence of crushing surface variation on seed-cracking performance among beak morphs of the African seedcracker *Pyrenestes ostrinus*
Heckeberg, N. S., Anderson, P. S. L. and Rayfield, E. J.
jeb230607

Attack behaviour in naive gyrfalcons is modelled by the same guidance law as in peregrine falcons, but at a lower guidance gain
Brighton, C. H., Chapman, K. E., Fox, N. C. and Taylor, G. K.
jeb238493

Cutaneous tactile sensitivity before and after tail loss and regeneration in the leopard gecko (*Eublepharis macularius*)
Bradley, S. S., Howe, E., Bent, L. R. and Vickaryous, M. K.
jeb234054

Maternal provisioning and fluctuating thermal regimes enhance immune response in a reptile with temperature-dependent sex determination

Leivesley, J. A. and Rollinson, N.

jeb237016

Intersection of motor volumes predicts the outcome of ambush predation of larval zebrafish

Bhattacharyya, K., McLean, D. L. and MacIver, M. A.

jeb235481