



Cover: After their first year of life in the colony, juvenile king penguins (*Aptenodytes patagonicus*; right) depart to sea, where they disperse for an extended period. At sea, they have to develop effective prey search patterns and physiological capacities that enable them to capture sufficient prey at great depth. Enstipp et al. (jeb242512) used subcutaneously implanted data-loggers to investigate the ontogeny of juvenile dive capacity and foraging performance in comparison with adult breeders (left). While juveniles were able to dive to considerable depth at colony departure, physiological maturation and the refinement of foraging skills required an extensive period at sea. Photo credit: Manfred Enstipp.

INSIDE JEB

Brachyhypopomus bennetti are simplifying their bolts of electricity

Knight, K.
jeb242965

Bumblebees feel bloom humidity when choosing where to sip

Knight, K.
jeb242890

Scales save bearded dragons from dehydration

Knight, K.
jeb242944

Glucose breakfast kickstarts grizzlies out of hibernation

Knight, K.
jeb242927

COMMENTARY

Avian color expression and perception: is there a carotenoid link?

Toomey, M. B. and Ronald, K. L.
jeb203844

REVIEW

Cool your jets: biological jet propulsion in marine invertebrates

Gemmell, B. J., Dabiri, J. O., Colin, S. P., Costello, J. H., Townsend, J. P. and Sutherland, K. R.
jeb222083

SHORT COMMUNICATIONS

Metal pollutants have additive negative effects on honey bee cognition

Monchanin, C., Drujont, E., Devaud, J.-M., Lihoreau, M. and Barron, A. B.
jeb241869

Telomerase activity can mediate the effects of growth on telomeres during post-natal development in a wild bird

Noguera, J. C. and Velando, A.
jeb242465

Effects of 12 weeks of resistance training on rat gut microbiota composition

Castro, A. P., Silva, K. K. S., Medeiros, C. S. A., Alves, F., Araujo, R. C. and Almeida, J. A.
jeb242543

Vacuolar H⁺-ATPase and Na⁺/K⁺-ATPase energize Na⁺ uptake mechanisms in the nuchal organ of the hyperregulating freshwater crustacean *Daphnia magna*

Morris, C. and O'Donnell, M. J.
jeb242205

METHODS & TECHNIQUES

Evaluating tank acclimation and trial length for dynamic shuttle box temperature preference assays in aquatic animals

Harman, A. A., Fuzzen, M., Stoa, L., Boreham, D., Manzon, R., Somers, C. M. and Wilson, J. Y.
jeb233205

RESEARCH ARTICLES

The influence of the post-pulmonary septum and submersion on the pulmonary mechanics of *Trachemys scripta* (Cryptodira: Emydidae)

de Souza, R. B. B. and Klein, W.
jeb242386

Does different activation between the medial and the lateral gastrocnemius during walking translate into different fascicle behavior?

Hamard, R., Aeles, J., Kelp, N. Y., Feigeane, R., Hug, F. and Dick, T. J. M.
jeb242626

Derived loss of signal complexity and plasticity in a genus of weakly electric fish

Saenz, D. E., Gu, T., Ban, Y., Winemiller, K. O. and Markham, M. R.
jeb242400

Bumblebees can detect floral humidity

Harrap, M. J. M., Hempel de Ibarra, N., Knowles, H. D., Whitney, H. M. and Rands, S. A.
jeb240861

Associative learning of non-sugar nectar components: amino acids modify nectar preference in a hawkmoth

Broadhead, G. T. and Raguso, R. A.
jeb234633

Transgenerational plasticity responses of oysters to ocean acidification differ with habitat

Parker, L. M., Scanes, E., O'Connor, W. A. and Ross, P. M.
jeb239269

Are individuals consistent? Endocrine reaction norms under different ecological challenges

Baldan, D., Negash, M. and Ouyang, J. Q.
jeb240499

Covariation among multimodal components in the courtship display of the túngara frog

James, L. S., Halfwerk, W., Hunter, K. L., Page, R. A., Taylor, R. C., Wilson, P. S. and Ryan, M. J.
jeb241661

Can offsetting the energetic cost of hibernation restore an active season phenotype in grizzly bears (*Ursus arctos horribilis*)?

Jansen, H. T., Evans Hutzenbiler, B., Hapner, H. R., McPhee, M. L., Carnahan, A. M., Kelley, J. L., Saxton, M. W. and Robbins, C. T.

jeb242560

Bearded dragons (*Pogona vitticeps*) with reduced scalation lose water faster but do not have substantially different thermal preferences

Sakich, N. B. and Tattersall, G. J.

jeb234427

The early life of king penguins: ontogeny of dive capacity and foraging behaviour in an expert diver

Enstipp, M. R., Bost, C.-A., Le Bohec, C., Chatelain, N., Weimerskirch, H. and Handrich, Y.

jeb242512

Opposing effects of dopamine on agonistic behaviour in crayfish
Ibuchi, K. and Nagayama, T.

jeb242057

Habituation in *Aedes aegypti* mosquito larvae is context specific
Pietrantuono, A. L., Aguirre, M. B., Bruzzone, O. A. and Guerrieri, F. J.

jeb242351

Disentangling the energetic costs of step time asymmetry and step length asymmetry in human walking

Stenum, J. and Choi, J. T.

jeb242258

CORRECTION

Correction: Mechanical behavior of shark vertebral centra at biologically relevant strains

Ingle, D. N., Natanson, L. J. and Porter, M. E.

jeb242902