



**Cover:** A Weddell seal pup rests on the ice, its lanugo still wet from a recent swim. Pups begin swimming with their mothers during the dependency period. The brown natal lanugo indicates the pup has not begun molting. Pearson et al. (jeb242773) found pre-molt and molting pups have higher resting metabolic rates in water than post-molt pups and incur additional costs in water compared with air. Despite the increased costs, molting pups spend the most time in the water, indicating an energetic trade-off between expending energy in the water and developing physiological and behavioral capabilities associated with diving. Photo credit: Linnea Pearson, NMFS Permit # 21006-01, ACA Permit 2018-013 M#1.

## INSIDE JEB

Warm skins choose to keep cooler in the wind

**Knight, K.**

jeb244193

Weddell seal pups keep swimming when trading in fluff to cut costs

**Knight, K.**

jeb244221

Dopamine 1-like receptor in the brain holds key to zombie cockroach transformation

**Knight, K.**

jeb244141

Boas shift breathing to avoid suffocation when constricting and digesting dinner

**Knight, K.**

jeb244170

Noises heard in egg mould quail chick personality

**Knight, K.**

jeb244217

## COMMENTARY

Biological constraints on configural odour mixture perception

**Coureaud, G., Thomas-Danguin, T., Sandoz, J.-C. and Wilson, D. A.**

jeb242274

## METHODS & TECHNIQUES

Micro-biopsies: a less invasive technique for investigating human muscle fiber mechanics

**Rice, P. E., Nimphius, S., Abbiss, C., Zwetsloot, K. A. and Nishikawa, K.**

jeb243643

## RESEARCH ARTICLES

Wind of change: a diurnal skink thermoregulates between cooler set-points and for an increased amount of time in the presence of wind

**Virens, E. and Cree, A.**

jeb244038

Breathing versus feeding in the Pacific hagfish

**Eom, J., Lauridsen, H. and Wood, C. M.**

jeb243989

Effects of neurotransmitter receptor antagonists on sea urchin righting behavior and tube foot motility

**McDonald, M., Griffin, N. P., Howell, E., Li, D., Harnew-Spradley, S., Rodriguez, P., Lancaster, A., Umutoni, F., Besh, J. and Shelley, C.**

jeb243076

Context-dependent influence of threat on honey bee social network dynamics and brain gene expression

**Traniello, I. M., Hamilton, A. R., Gernat, T., Cash-Ahmed, A. C., Harwood, G. P., Ray, A. M., Glavin, A., Torres, J., Goldenfeld, N. and Robinson, G. E.**

jeb243738

Colour vision in stomatopod crustaceans: more questions than answers

**Streets, A., England, H. and Marshall, J.**

jeb243699

How octopus arm muscle contractile properties and anatomical organization contribute to arm functional specialization

**Zullo, L., Di Clemente, A. and Maiole, F.**

jeb243163

They like to move it (move it): walking kinematics of balitorid loaches of Thailand

**Crawford, C. H., Webber-Schultz, A., Hart, P. B., Randall, Z. S., Cerrato-Morales, C., Kellogg, A. B., Amplo, H. E., Suvarnaraksha, A., Page, L. M., Chakrabarty, P. and Flammang, B. E.**

jeb242906

TRPM2 causes sensitization to oxidative stress but attenuates high-temperature injury in the sea anemone *Nematostella vectensis*

**Ehrlich, W., Gahan, J. M., Rentzsch, F. and Kühn, F. J. P.**

jeb243717

Parasitoid wasp venom manipulates host innate behavior via subtype-specific dopamine receptor activation

**Nordio, S., Kaiser, M., Adams, M. E. and Libersat, F.**

jeb243674

Metabolic cost of thermoregulation decreases after the molt in developing Weddell seal pups

**Pearson, L. E., Weitzner, E. L., Tomanek, L. and Liwanag, H. E. M.**

jeb242773

Modular lung ventilation in *Boa constrictor*

**Capano, J. G., Boback, S. M., Weller, H. I., Cieri, R. L., Zwemer, C. F. and Brainerd, E. L.**

jeb243119

Energy expenditure does not solely explain step length–width choices during walking

**Antos, S. A., Kording, K. P. and Gordon, K. E.**

jeb243104

Rates of warming impact oxidative stress in zebrafish (*Danio rerio*)

**Loughland, I., Lau, G. Y., Jolly, J. and Seebacher, F.**

jeb243740

*Arapaima gigas* maintains gas exchange separation in severe aquatic hypoxia but does not suffer branchial oxygen loss  
**Aaskov, M. L., Jensen, R. J., Skov, P. V., Wood, C. M., Wang, T., Malte, H. and Bayley, M.**  
jeb243672

Impact of natural and artificial prenatal stimulation on the behavioural profile of Japanese quail  
**Mezrai, N., Houdelier, C., Bertin, A., Calandreau, L., Arnould, C., Darmaillacq, A.-S., Dickel, L. and Lumineau, S.**  
jeb243175

A test of context- and sex-dependent dopaminergic effects on the behavior of a gregarious bird, the common waxbill, *Estrilda astrild*  
**Trigo, S., Silva, P. A., Cardoso, G. C. and Soares, M. C.**  
jeb243861

Microinjection-based CRISPR/Cas9 mutagenesis in the decapoda crustaceans *Neocaridina heteropoda* and *Eriocheir sinensis*  
**Li, R., Meng, Q., Qi, J., Hu, L., Huang, J., Zhang, Y., Yang, J. and Sun, J.**  
jeb243702

#### CORRECTION

Correction: Thermal performance curves for aerobic scope in a tropical fish (*Lates calcarifer*): flexible in amplitude but not breadth  
**Scheuffele, H., Rubio-Gracia, F. and Clark, T. D.**  
jeb244278