



**Cover:** *Boa constrictor* are ambush-hunting snakes that feed infrequently, eliciting transition from fasting to fed states and drastic energetic adjustments to sustain the increased postprandial metabolic rate. Da Mota Araujo et al. (jeb243142) demonstrated that fed boas exhibited increased liver mitochondrial respiration rates and H<sub>2</sub>O<sub>2</sub> release but no evidence of compromised mitochondrial redox balance compared with fasting individuals. Mitochondrial function plasticity of boas might play a vital role in the fasting to feeding transition and be pivotal in organism fitness by affecting animal performance. Photo credit: José Eduardo de Carvalho.

## INSIDE JEB

Learning lessons about muscle wasting from insect larvae

**Knight, K.**

jeb243675

Sea lions switch whisker manoeuvres to sense tactile differences

**Knight, K.**

jeb243634

Diet alters how opaleyes cope with heat

**Knight, K.**

jeb243659

Flexible wings take the effort out of swimming for diving penguins

**Knight, K.**

jeb243603

## OUTSIDE JEB

Tuna keep their cool during heatwaves

**Harter, T.**

jeb237420

Gliding geckos snap their tail to stick the landing

**Stenum, J.**

jeb237388

Cockatoos know a thing or two about weight

**Palavalli-Nettimi, R.**

jeb237396

Tenrecs: freaks we can all learn from

**Breit, A. M.**

jeb237404

Hypoxic hagfish gills binge calcium

**Borowiec, B. G.**

jeb237412

## COMMENTARY

A connectome is not enough – what is still needed to understand the brain of *Drosophila*?

**Scheffer, L. K. and Meinertzhagen, I. A.**

jeb242740

## SHORT COMMUNICATIONS

Tadpole-transporting frogs use stagnant water odor to find pools in the rainforest

**Serrano-Rojas, S. J. and Pašukonis, A.**

jeb243122

Anatomical and physiological variation of the hyoid musculature during swallowing in infant pigs

**Mayerl, C. J., Steer, K. E., Chava, A. M., Bond, L. E., Edmonds, C. E., Gould, F. D. H., Hieronymous, T. L., Vinyard, C. J. and German, R. Z.**

jeb243075

## RESEARCH ARTICLES

Flight training and dietary antioxidants have mixed effects on the oxidative status of multiple tissues in a female migratory songbird

**Frawley, A. E., DeMoranville, K. J., Carbeck, K. M., Trost, L., Bryła, A., Działo, M., Sadowska, E. T., Bauchinger, U., Pierce, B. J. and McWilliams, S. R.**

jeb243158

Great power comes at a high (locomotor) cost: the role of muscle fascicle length in the power versus economy performance trade-off

**Cooper, A. N., McDermott, W. J., Martin, J. C., Dulaney, S. O. and Carrier, D. R.**

jeb236679

Plasticity of the gastrocnemius elastic system in response to decreased work and power demand during growth

**Cox, S. M., DeBoef, A., Salzano, M. Q., Katugam, K., Piazza, S. J. and Rubenson, J.**

jeb242694

Mitochondrial capacity and reactive oxygen species production during hypoxia and reoxygenation in the ocean quahog,

*Arctica islandica*

**Steffen, J. B. M., Haider, F., Sokolov, E. P., Bock, C. and Sokolova, I. M.**

jeb243082

Feeding effects on liver mitochondrial bioenergetics of *Boa constrictor* (Serpentes: Boidae)

**da Mota Araujo, H. R., Sartori, M. R., Navarro, C. D. C., de Carvalho, J. E. and Luis da Cruz, A.**

jeb243142

California sea lions employ task-specific strategies for active touch sensing

**Milne, A. O., Orton, L., Black, C. H., Jones, G. C., Sullivan, M. and Grant, R. A.**

jeb243085

Depth- and temperature-specific fatty acid adaptations in ctenophores from extreme habitats

**Winnikoff, J. R., Haddock, S. H. D. and Budin, I.**

jeb242800

Swimming kinematics and performance of spinal transected lampreys with different levels of axon regeneration

**Fies, J., Gemmell, B. J., Fogerson, S. M., Morgan, J. R., Tytell, E. D. and Colin, S. P.**

jeb242639

Integration of proteomic and genetic approaches to assess developmental muscle atrophy

**Brooks, D. S., Vishal, K., Bawa, S., Alder, A. and Geisbrecht, E. R.**

jeb242698

Diet mediates thermal performance traits: implications for marine ectotherms

**Hardison, E. A., Kraskura, K., Van Wert, J., Nguyen, T. and Eliason, E. J.**

jeb242846

Kinematics and hydrodynamics analyses of swimming penguins: wing bending improves propulsion performance

**Harada, N., Oura, T., Maeda, M., Shen, Y., Kikuchi, D. M. and Tanaka, H.**

jeb242140

Motor control in the epaxial musculature of bluegill sunfish in feeding and locomotion

**Jimenez, Y. E. and Brainerd, E. L.**

jeb242903