



**Cover:** Centipedes inhabit various terrains but are largely studied on flat surfaces. To gain insight into the mechanics and control of traversal on complex surfaces, Diaz et al. (jeb244688) studied how two centipede species negotiate laboratory model rugose terrains. The eastern red centipede (*Scolopocryptops sexspinosis*) changes its locomotor strategy (direct to retrograde limb-stepping pattern) with increasing terrain rugosity, whereas the tiger centipede (*Scolopendra polymorpha*) retains the same strategy (retrograde limb-stepping). When encountering detrimental limb–substrate interactions, both species fold their limbs towards the body, aiding limb–obstacle negotiation via passive limb gliding. Photo credit: Kenneth Wang.

## INSIDE JEB

Shags consume what comes along rather than foraging optimally  
**Knight, K.**

jeb245605

How mouthbrooding cichlid mothers avoid consuming their brood  
**Knight, K.**

jeb245577

Even the tiniest snapping shrimp claws make cracking pistol pops  
**Knight, K.**

jeb245565

Having eyes all over helps chitons see better  
**Kay, J.**

jeb245610

Night-time light pollution makes flightless crickets more drought resistant  
**Knight, K.**

jeb245452

## COMMENTARIES

From perplexing to predictive: are we ready to forecast insect disease susceptibility in a warming world?

**Ferguson, L. V. and Adamo, S. A.**

jeb244911

Insect diapause: from a rich history to an exciting future  
**Denlinger, D. L.**

jeb245329

## SHORT COMMUNICATIONS

Epaxial and hypaxial co-contraction: a mechanism for modulating strike pressure and accuracy during suction feeding in channel catfish

**Jimenez, Y. E., Parsons, J. W. and Brainerd, E. L.**

jeb244714

Weanling gut microbiota composition of a mouse model selectively bred for high voluntary wheel-running behavior

**McNamara, M. P., Venable, E. M., Cadney, M. D., Castro, A. A., Schmill, M. P., Kazzazi, L., Carmody, R. N. and Garland Jr, T.**

jeb245081

Stress tolerance is influenced by artificial light at night during development and life-history strategy

**Bonfoey, A. M., Chen, J. and Stahlschmidt, Z. R.**

jeb245195

## RESEARCH ARTICLES

Hoverfly (*Eristalis tenax*) pursuit of artificial targets  
**Thyselius, M., Ogawa, Y., Leibbrandt, R., Wardill, T. J., Gonzalez-Bellido, P. T. and Nordström, K.**

jeb244895

Foraging habitat and site selection do not affect feeding rates in European shags

**Watanuki, Y., Sato, K., Shiomi, K., Wanless, S. and Daunt, F.**

jeb244461

Multiple behaviors for turning performance of Pacific bluefin tuna (*Thunnus orientalis*)

**Downs, A. M., Kolpas, A., Block, B. A. and Fish, F. E.**

jeb244144

Taurine depletion impairs cardiac function and affects tolerance to hypoxia and high temperatures in brook char (*Salvelinus fontinalis*)

**Dixon, T.-A. M., Rhyno, E.-L. M., El, N., McGaw, S. P., Otley, N. A., Parker, K. S., Buldo, E. C., Pabody, C. M., Savoie, M., Cockshutt, A., Morash, A. J., Lamarre, S. G. and MacCormack, T. J.**

jeb245092

Transcriptomic changes associated with maternal care in the brain of mouthbrooding cichlid *Astatotilapia burtoni* reflect adaptation to self-induced metabolic stress

**Faber-Hammond, J. J. and Renn, S. C. P.**

jeb244734

Developing elastic mechanisms: ultrafast motion and cavitation emerge at the millimeter scale in juvenile snapping shrimp

**Harrison, J. S. and Patek, S. N.**

jeb244645

Active and passive mechanics for rugose terrain traversal in centipedes

**Diaz, K., Erickson, E., Chong, B., Soto, D. and Goldman, D. I.**

jeb244688

Why don't horseflies land on zebras?

**Caro, T., Fogg, E., Stephens-Collins, T., Santon, M. and How, M. J.**

jeb244778

Increased reliance on coronary perfusion for cardiorespiratory performance in seawater-acclimated rainbow trout

**Wallbom, N., Zena, L. A., McArley, T. J., Ekström, A., Axelsson, M., Gräns, A., Sandblom, E. and Morgenroth, D.**

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Polarization sensitivity and decentralized visual processing in an animal with a distributed visual system

**Chappell, D. R. and Speiser, D. I.**

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