



**Cover:** White's tree frog, *Litoria caerulea*, climbing a 13 mm diameter Perspex cylinder. This species is a native of Australia, where it is often found inside houses. Hill et al. (jeb168179) examined the climbing abilities of this and another tree frog species on vertical cylinders of differing diameter and surface roughness, with the aim of elucidating the relative roles of adduction forces (gripping) and adhesion in climbing. They show that these forces combine to provide fast, efficient climbing on smooth, narrow substrates. Photo credit: Aihong Ji.

## INSIDE JEB

Pheromones fiddle with bee perception  
**Knight, K.**  
jeb178426

Mouse mums consider their futures  
**Gilman, C.**  
jeb177139

Sticky tree frogs can also get a grip  
**Knight, K.**  
jeb177642

## OUTSIDE JEB

An off-the-(nar)whal stress response  
**Regan, M. D.**  
jeb169904

Flying is not for the small-hearted  
**Joyce, W.**  
jeb169912

Slow swimming exhausts fish  
**Stenum, J.**  
jeb169854

Salmon nourish their children even after death  
**Stawski, C.**  
jeb169896

## NEWS

Farewell Steve and welcome Pat and Katie  
**Knight, K.**  
jeb180083

## CONVERSATION

Early career researchers: an interview with Yossi Yovel  
jeb179069

## REVIEW

Aquatic acidification: a mechanism underpinning maintained oxygen transport and performance in fish experiencing elevated carbon dioxide conditions  
**Hannan, K. D. and Rummer, J. L.**  
jeb154559

## SHORT COMMUNICATION

Lizards assess complex social signals by lateralizing colour but not motion detection  
**Batabyal, A. and Thaker, M.**  
jeb173252

## RESEARCH ARTICLES

Limits to sustained energy intake. XXVII. Trade-offs between first and second litters in lactating mice support the ecological context hypothesis

**Vaanholt, L. M., Duah, O. A., Balduci, S., Mitchell, S. E., Hambly, C. and Speakman, J. R.**  
jeb170902

Negligible differences in metabolism and thermal tolerance between diploid and triploid Atlantic salmon (*Salmo salar*)

**Bowden, A. J., Andrewartha, S. J., Elliott, N. G., Frappell, P. B. and Clark, T. D.**  
jeb166975

Pheromones modulate responsiveness to a noxious stimulus in honey bees

**Rossi, N., d'Ettorre, P. and Giurfa, M.**  
jeb172270

Cold temperature represses daily rhythms in the liver transcriptome of a stenothermal teleost under decreasing day length

**Prokkola, J. M., Nikinmaa, M., Lewis, M., Anttila, K., Kanerva, M., Ikkala, K., Seppänen, E., Kolari, I. and Leder, E. H.**  
jeb170670

The biomechanics of tree frogs climbing curved surfaces: a gripping problem

**Hill, I. D. C., Dong, B., Barnes, W. J. P., Ji, A. and Endlein, T.**  
jeb168179

Carbonic anhydrase expression in the branchial ionocytes of rainbow trout

**Brannen, M. and Gilmour, K. M.**  
jeb164582

Auditory neural networks involved in attention modulation prefer biologically significant sounds and exhibit sexual dimorphism in anurans

**Xue, F., Yue, X., Fan, Y., Cui, J., Brauth, S. E., Tang, Y. and Fang, G.**  
jeb167775

Disembodying the invisible: electrocommunication and social interactions by passive reception of a moving playback signal

**Worm, M., Kirschbaum, F. and von der Emde, G.**  
jeb172890

Through the eye of a lizard: hue discrimination in a lizard with ventral polymorphic coloration

**Pérez i de Lanuza, G., Ábalos, J., Bartolomé, A. and Font, E.**  
jeb169565

Benefits of hyperbaric oxygen pretreatment for decompression sickness in Bama pigs

**Qing, L., Yi, H.-j., Wang, Y.-w., Zhou, Q., Ariyadewa, D. K. and Xu, W.-g.**  
jeb171066

Cold tolerance is linked to osmoregulatory function of the hindgut in *Locusta migratoria*

**Gerber, L. and Overgaard, J.**  
jeb173930

Biomechanical mechanisms underlying exosuit-induced improvements in walking economy after stroke

**Bae, J., Awad, L. N., Long, A., O'Donnell, K., Hendron, K., Holt, K. G., Ellis, T. D. and Walsh, C. J.**  
jeb168815

Malpighian tubules of *Trichoplusia ni*: recycling ions via gap junctions and switching between secretion and reabsorption of  $\text{Na}^+$  and  $\text{K}^+$  in the distal ileac plexus

**Kolosov, D., Piermarini, P. M. and O'Donnell, M. J.**  
jeb172296

Size-dependent avoidance of a strong magnetic anomaly in Caribbean spiny lobsters

**Ernst, D. A. and Lohmann, K. J.**  
jeb172205

The reluctant visitor: an alkaloid in toxic nectar can reduce olfactory learning and memory in Asian honey bees

**Zhang, J., Wang, Z., Wen, P., Qu, Y., Tan, K. and Nieh, J. C.**  
jeb168344

The loss of hemoglobin and myoglobin does not minimize oxidative stress in Antarctic icefishes

**O'Brien, K. M., Crockett, E. L., Philip, J., Oldham, C. A., Hoffman, M., Kuhn, D. E., Barry, R. and McLaughlin, J.**  
jeb162503