



**Cover:** A female praying mantis (*Tenodera sinensis*) enjoys a meal. Bertsch and colleagues (jeb197673) investigated the effects of increasing satiety levels on hunting strategies. As the mantises fed on cockroach nymphs, they attended to a more restricted range of targets, ultimately switching to an ambush strategy. In order to obtain quantitative data, the team developed a virtual prey system that demonstrated reductions in both the distance and range of targets to which the praying mantis would attend. The same effects could be generated by injection of the satiety hormone, insulin. Photo credit: David Bertsch.

### INSIDE JEB

Insulin switches off praying mantis's urge to hunt when full  
**Knight, K.**  
jeb207191

Dragonfly males overshoot to herd intruders from their territory  
**Knight, K.**  
jeb207126

Poison frogs keep a mental map  
**Knight, K.**  
jeb206201

### OUTSIDE JEB

Kicking kangaroo rats deter rattlesnakes  
**Joyce, W.**  
jebjeb192831

Snakes diffract like a light ray to put them on the right track  
**Stenum, J.**  
jeb192807

Lice dodge death by going to the light  
**Rozen, D. E.**  
jeb192815

Egg temperature affects chicks' clumsiness  
**Mantica, G.**  
jeb192823

### REVIEW

Path integration: how details of the honeybee waggle dance and the foraging strategies of desert ants might help in understanding its mechanisms  
**Collett, T. S.**  
jeb205187

### SHORT COMMUNICATION

Turtles maintain mitochondrial integrity but reduce mitochondrial respiratory capacity in the heart after cold acclimation and anoxia  
**Bundgaard, A., Qvortrup, K., Rasmussen, L. J. and Fago, A.**  
jeb200410

### METHODS AND TECHNIQUES

Multichannel stroboscopic videography (MSV): a technique for visualizing multiple channels for behavioral measurements  
**Soto, A. P., Po, T. and McHenry, M. J.**  
jeb201749

### RESEARCH ARTICLES

Honey bees flexibly use two navigational memories when updating dance distance information  
**Chatterjee, A., George, E. A., Prabhudev, M. V., Basu, P. and Brockmann, A.**  
jeb195099

Body condition impacts blood and muscle oxygen storage capacity of free-living beluga whales (*Delphinapterus leucas*)  
**Choy, E. S., Campbell, K. L., Berenbrink, M., Roth, J. D. and Loseto, L. L.**  
jeb191916

Predatory behavior changes with satiety or increased insulin levels in the praying mantis (*Tenodera sinensis*)  
**Bertsch, D. J., Martin, J. P., Svenson, G. J. and Ritzmann, R. E.**  
jeb197673

Distinctive mechanisms underlie the emission of social electric signals of submission in *Gymnotus omarorum*  
**Comas, V., Langevin, K., Silva, A. and Borde, M.**  
jeb195354

Dragonflies use underdamped pursuit to chase conspecifics  
**Lohmann, A. C., Corcoran, A. J. and Hedrick, T. L.**  
jeb190884

Unique evolution of vitamin A as an external pigment in tropical starlings  
**Galván, I., Murtada, K., Jorge, A., Ríos, Á. and Zougagh, M.**  
jeb205229

Sea chordophones make the mysterious /Kwa/ sound: identification of the emitter of the dominant fish sound in Mediterranean seagrass meadows  
**Bolgan, M., Souldard, J., Di Iorio, L., Gervaise, C., Lejeune, P., Gobert, S. and Parmentier, E.**  
jeb196931

A cognitive map in a poison frog  
**Liu, Y., Day, L. B., Summers, K. and Burmeister, S. S.**  
jeb197467

Effects of early nutritional stress on physiology, life histories and their trade-offs in a model ectothermic vertebrate  
**Holden, K. G., Reding, D. M., Ford, N. B. and Bronikowski, A. M.**  
jeb200220

Comparing thermal performance curves across traits: how consistent are they?  
**Kellermann, V., Chown, S. L., Schou, M. F., Aitkenhead, I., Janion-Scheepers, C., Clemson, A., Scott, M. T. and Sgrò, C. M.**  
jeb193433

Selenoprotein T as a new positive inotrope in the goldfish, *Carassius auratus*  
**Mazza, R., Gattuso, A., Imbrogno, S., Boukhzar, L., Leo, S., Mallouki, B. Y., Filice, M., Rocca, C., Angelone, T., Anouar, Y. and Cerra, M. C.**  
jeb201202

Panorama similarity and navigational knowledge in the nocturnal bull ant *Myrmecia midas*  
**Freas, C. A. and Cheng, K.**  
jeb193201

Tibialis anterior tendinous tissue plays a key role in energy absorption during human walking  
**Maharaj, J. N., Cresswell, A. G. and Lichtwark, G. A.**  
jeb191247

Septate junction in the distal ileac plexus of larval lepidopteran *Trichoplusia ni*: alterations in paracellular permeability during ion transport reversal  
**Kolosov, D., Jonusaite, S., Donini, A., Kelly, S. P. and O'Donnell, M. J.**  
jeb204750

The mineralocorticoid receptor contributes to barrier function of a model fish gill epithelium  
**Kolosov, D. and Kelly, S. P.**  
jeb192096

Motion-in-depth perception and prey capture in the praying mantis *Sphodromantis lineola*  
**Nityananda, V., Joubier, C., Tan, J., Tarawneh, G. and Read, J. C. A.**  
jeb198614