



Cover: Tokay gecko (*Gekko gecko*) clinging to a tree branch. Garner et al. (jeb241240) examined the substrate use, adhesive performance and vertical clinging behaviour of this gecko in captivity to investigate whether adhesive performance influences patterns of substrate use. Geckos were observed significantly more often on substrates that elicited maximal adhesive performance. Photo credit: Austin M. Garner.

INSIDE JEB

Wing damage no obstacle for hummingbird hawkmoths
Knight, K.
jeb242392

Lifestyle difference gives female yellow-billed hornbills the edge
Knight, K.
jeb242286

High-voltage catfish immune to their own shocks
Knight, K.
jeb242243

REVIEW

Stark trade-offs and elegant solutions in arthropod visual systems
Meece, M., Rathore, S. and Buschbeck, E. K.
jeb215541

SHORT COMMUNICATIONS

Tokay geckos (Gekkonidae: *Gekko gecko*) preferentially use substrates that elicit maximal adhesive performance
Garner, A. M., Pamfilie, A. M., Dhinojwala, A. and Niewiarowski, P. H.
jeb241240

High carbohydrate diet ingestion increases post-meal lipid synthesis and drives respiratory exchange ratios above 1
Talal, S., Cease, A., Farington, R., Medina, H. E., Rojas, J. and Harrison, J.
jeb240010

RESEARCH ARTICLES

Early-life effects of juvenile Western diet and exercise on adult gut microbiome composition in mice
McNamara, M. P., Singleton, J. M., Cadney, M. D., Ruegger, P. M., Borneman, J. and Garland, T.
jeb239699

Wing damage affects flight kinematics but not flower tracking performance in hummingbird hawkmoths
Kihlström, K., Aiello, B., Warrant, E., Sponberg, S. and Stöckl, A.
jeb236240

Different protein metabolic strategies for growth during food-induced physiological plasticity in echinoid larvae
Ellison, A., Pouv, A. and Pace, D. A.
jeb230748

How hornbills handle heat: sex-specific thermoregulation in the southern yellow-billed hornbill
van Jaarsveld, B., Bennett, N. C., Czenze, Z. J., Kemp, R., van de Ven, T. M. F. N., Cunningham, S. J. and McKechnie, A. E.
jeb232777

Omega-3 fatty acids accelerate fledging in an avian marine predator: a potential role of cognition
Lamarre, J., Cheema, S. K., Robertson, G. J. and Wilson, D. R.
jeb235929

Tactile active sensing in an insect plant pollinator
Deora, T., Ahmed, M. A., Daniel, T. L. and Brunton, B. W.
jeb239442

Angling gear avoidance learning in juvenile red sea bream: evidence from individual-based experiments
Takahashi, K. and Masuda, R.
jeb239533

Efficient high-voltage protection in the electric catfish
Welzel, G. and Schuster, S.
jeb239855

Breaking free from thermodynamic constraints: thermal acclimation and metabolic compensation in a freshwater zooplankton species
Coggins, B. L., Anderson, C. E., Hasan, R., Pearson, A. C., Ekwudo, M. N., Bidwell, J. R. and Yampolsky, L. Y.
jeb237727

High spatial resolution mapping of the mucosal proteome of the gills of *Crassostrea virginica*: implication in particle processing
Pales Espinosa, E. and Allam, B.
jeb233361

Olfactory tracking strategies in a neotropical fruit bat
Brokaw, A. F. and Smotherman, M.
jeb231829

Transgenic expression of late embryogenesis abundant proteins improves tolerance to water stress in *Drosophila melanogaster*
Anderson, J. M. and Hand, S. C.
jeb238204

Effects of variable oxygen regimes on mitochondrial bioenergetics and reactive oxygen species production in a marine bivalve, *Mya arenaria*
Ouillon, N., Sokolov, E. P., Otto, S., Rehder, G. and Sokolova, I. M.
jeb237156

Analysis of why sea turtles swim slowly: a metabolic and mechanical approach
Kinoshita, C., Fukuoka, T., Narazaki, T., Niizuma, Y. and Sato, K.
jeb236216

Acclimation of intestinal morphology and function in Djungarian hamsters (*Phodopus sungorus*) related to seasonal and acute energy balance

Piscitiello, E., Herwig, A., Hagg, E., Schröder, B., Breves, G., Steinlechner, S. and Diedrich, V.

jeb232876

Effects of early-life exposure to sublethal levels of a common neonicotinoid insecticide on the orientation and migration of monarch butterflies (*Danaus plexippus*)

Wilcox, A. A. E., Newman, A. E. M., Raine, N. E., Mitchell, G. W. and Norris, D. R.

jeb230870

CORRECTIONS

Correction: Optic flow stabilizes flight in ruby-throated hummingbirds

Ros, I. G. and Biewener, A. A.

jeb242423

Correction: The biomechanics of knuckle-walking: 3-D kinematics of the chimpanzee and macaque wrist, hand and fingers

Thompson, N. E.

jeb242409