



Cover: A female grey-backed mining bee (*Andrena vaga*) visiting a willow catkin. This bee species is strictly oligolectic and collects pollen only from flowers of the genus *Salix*. Burger et al. (jeb242166) studied the host-finding behaviour of *A. vaga* and recorded physiological responses of the antennae and brain to host and non-host odours. Olfactory cues were the key attractants for *A. vaga*, and 4-oxoisophorone - a component of *Salix* scents - evoked strong responses in the antennal lobe glomeruli. A high sensitivity to floral scents enables the specialized bees to effectively find flowers. Photo credit: M. Kaminski.

INSIDE JEB

Humans didn't trade efficiency when they descended from the trees

Knight, K.
jeb243071

Grey-backed mining bees home in on willow signature scent

Knight, K.
jeb243024

Freshwater methamphetamine pollution turns brown trout into addicts

Knight, K.
jeb242971

OUTSIDE JEB

The ants go marching one for all

Lesser, E.
jeb236869

Baby fish with sticky heads

Palecek, A.
jeb236844

The bony tale of the bonytail's bony tail

Bressman, N.
jeb236877

Sea signals supper for flying foragers

Olberding, J.
jeb236851

CONVERSATION

In the field: an interview with Wendy Hood
jeb242998

COMMENTARY

Is hypoxia vulnerability in fishes a by-product of maximum metabolic rate?

Esbaugh, A. J., Ackerly, K. L., Dichiera, A. M. and Negrete, Jr, B.
jeb232520

REVIEW

Too big to study? The biologging approach to understanding the behavioural energetics of ocean giants

Watanabe, Y. Y. and Goldbogen, J. A.
jeb202747

SHORT COMMUNICATIONS

Generation of propulsive force via vertical undulations in snakes

Jurestovsky, D. J., Usher, L. R. and Astley, H. C.
jeb239020

Methamphetamine pollution elicits addiction in wild fish

Horký, P., Grabic, R., Grabicová, K., Brooks, B. W., Douda, K., Slavík, O., Hubená, P., Sancho Santos, E. M. and Randák, T.
jeb242145

RESEARCH ARTICLES

Dental microwear texture gradients in guinea pigs reveal that material properties of the diet affect chewing behaviour

Winkler, D. E., Clauss, M., Rölle, M., Schulz-Kornas, E., Codron, D., Kaiser, T. M. and Tütken, T.
jeb242446

The energetic function of the human foot and its muscles during accelerations and decelerations

Smith, R. E., Lichtwark, G. A. and Kelly, L. A.
jeb242263

Hemolymph supply to locomotor muscles of the ghost crab
Ocyroide quadrate

Yang, S., Douglas, T. D., Ruia, R. and Medler, S.
jeb241901

Scaling of oscillatory kinematics and Froude efficiency in baleen whales

Gough, W. T., Smith, H. J., Savoca, M. S., Czapanskiy, M. F., Fish, F. E., Potvin, J., Bierlich, K. C., Cade, D. E., Di Clemente, J., Kennedy, J., Segre, P., Stanworth, A., Weir, C. and Goldbogen, J. A.
jeb237586

Body size affects immune cell proportions in birds and non-volant mammals, but not bats

Cornelius Ruhs, E., Becker, D. J., Oakey, S. J., Ogunsina, O., Fenton, M. B., Simmons, N. B., Martin, L. B. and Downs, C. J.
jeb241109

Evidence for the use of a high-resolution magnetic map by a short-distance migrant, the Alpine newt (*Ichthyosaura alpestris*)

Diego-Rasilla, F. J. and Phillips, J. B.
jeb238345

The role of ligand-gated chloride channels in behavioural alterations at elevated CO₂ in a cephalopod

Thomas, J. T., Spady, B. L., Munday, P. L. and Watson, S.-A.
jeb242335

Neural and behavioural responses of the pollen-specialist bee *Andrena vaga* to *Salix* odours

Burger, H., Marquardt, M., Babucke, K., Heuel, K. C., Ayasse, M., Dötterl, S. and Galizia, C. G.
jeb242166

Juvenile hormone affects age polyethism, ovarian status and cuticular hydrocarbon profile in workers of the wasp *Polybia occidentalis*

Prato, A., da Silva, R. C., Assis, D. S., Mateus, S., Hartfelder, K. and do Nascimento, F. S.

jeb240200

Determinants of climbing energetic costs in humans

Kozma, E. E. and Pontzer, H.

jeb234567

Proleg retractor muscles in *Manduca sexta* larvae are segmentally different, suggesting anteroposterior specialization

Scibelli, A. E., Caron, D. P., Aonuma, H. and Trimmer, B. A.

jeb242508

Cubam receptor-mediated endocytosis in hindgut-derived pseudoplacenta of a viviparous teleost (*Xenotoca eiseni*)

Iida, A., Sano, K., Inokuchi, M., Nomura, J., Suzuki, T., Kuriki, M., Sogabe, M., Susaki, D., Tonosaki, K., Kinoshita, T. and Hondo, E.

jeb242613

Role of the G protein-coupled receptors GPR84 and GPR119 in the central regulation of food intake in rainbow trout

Velasco, C., Conde-Sieira, M., Comesaña, S., Chivite, M., Míguez, J. M. and Soengas, J. L.

jeb242360

Limited heat tolerance in a cold-adapted seabird: implications of a warming Arctic

Choy, E. S., O'Connor, R. S., Gilchrist, H. G., Hargreaves, A. L., Love, O. P., Vézina, F. and Elliott, K. H.

jeb242168

Elevated cortisol lowers thermal tolerance but results in limited cardiac remodelling in rainbow trout (*Oncorhynchus mykiss*) experiencing chronic social stress

Bard, B., Dodge, A., Joyce, W., Lawrence, M., Cooke, S. J. and Gilmour, K. M.

jeb238683

Repeat exposure to hypercapnic seawater modifies growth and oxidative status in a tolerant burrowing clam

Gurr, S. J., Trigg, S. A., Vadopalas, B., Roberts, S. B. and Putnam, H. M.

jeb233932

Long-term memory of configural learning is enhanced via CREB upregulation by the flavonoid quercetin in *Lymnaea stagnalis*

Batabyal, A., Rivi, V., Benatti, C., Blom, J. M. C. and Lukowiak, K.

jeb242761

CORRECTION

Correction: Boat noise interferes with Lusitanian toadfish acoustic communication

Alves, D., Vieira, M., Amorim, M. C. P. and Fonseca, P. J.

jeb243046