



Cover: Vibrissae or whiskers are a characteristic feature of most mammalian species and provide the animals with mechanosensory information. Crucial for this perception process is the number and arrangement of the mystacial vibrissae in the muzzle area in particular, which differs considerably across species. Graff et al. ([jeb247545](#)) present a method by which the 3D geometry of the mystacial vibrissae fields of such diverse mammals as harbor seals (*Phoca vitulina*; shown here), house mice (*Mus musculus*) and Norway rats (*Rattus norvegicus*) can be quantified, and common features and differences determined. These data help us to understand the tactile sensing process provided by vibrissae and offer new possibilities for its simulation, as well as for robotics. Photo credit: Marine Science Center, Rostock ([www.msc-mv.de](#)).

INSIDE JEB

Motion-sensitive neurons help mudflat crabs decide to freeze or flee

Knight, K.

[jeb249744](#)

Small-spotted catsharks cope with marine heatwaves, for now

Knight, K.

[jeb249712](#)

COMMENTARIES

Bridging the divide in organismal physiology: a case for the integration of behaviour as a physiological process

Debaere, S. F., Opinion, A. G. R., Allan, B. J. M., Rummer, J. L. and De Boeck, G.

[jeb247685](#)

Termites and other social insects as emerging model organisms of ageing research: how to achieve a long lifespan and a high fecundity

Korb, J.

[jeb246497](#)

SHORT COMMUNICATIONS

Temperature and water availability induce chronic stress responses in zebra finches (*Taeniopygia guttata*)

Colominas-Ciuró, R., Kowalczywska, A., Jefimow, M. and Wojciechowski, M. S.

[jeb247743](#)

Near-maximally swimming schoolmaster snapper (*Lutjanus apodus*) have a greater metabolic capacity, and only a slightly lower thermal tolerance, than when tested at rest

Nati, J. J. H., Malorey, P. and Gamperl, A. K.

[jeb249273](#)

Skittering locomotion in cricket frogs: a form of porpoising

Weiss, T., Gillis, G. B., Van Mullekom, J. and Socha, J. J.

[jeb249403](#)

How do fish miss? Attack strategies of threespine stickleback capturing non-evasive prey

Shirazi, S. and Higham, T. E.

[jeb247814](#)

METHODS & TECHNIQUES

Spatial arrangement of the whiskers of harbor seals (*Phoca vitulina*) compared with whisker arrangements of house mice (*Mus musculus*) and brown rats (*Rattus norvegicus*)

Graff, M. M., Belli, H. M., Wieskotten, S., Bresee, C. S., Krüger, Y., Janssen, T. L., Dehnhardt, G. and Hartmann, M. J. Z.

[jeb247545](#)

Detecting subtle subterranean movement via laser speckle imaging

Bagheri, H., Goodisman, M. A. D. and Goldman, D. I.

[jeb247267](#)

RESEARCH ARTICLES

Glucocorticoid and glycemic responses to immune challenge in a viviparous snake afflicted with an emerging mycosis

Lind, C. M., Agugliaro, J., Ortega, J., Palmisano, J. N., Lorch, J. M., Truong, T. B. and Farrell, T. M.

[jeb247962](#)

Socially induced plasticity of the posterior tuberculum and motor behavior in zebrafish (*Danio rerio*)

Heagy, F. K., Clements, K. N., Adams, C. L., Blain, E. and Issa, F. A.

[jeb248148](#)

Freezing of movements and its correspondence with MLG1 neuron response to looming stimuli in the crab *Neohelice*

Oliva, D., Gültig, M., Cámara, A. and Tomsic, D.

[jeb248124](#)

Natural variability and individuality of walking behavior in *Drosophila*

Godesberg, V., Bockemühl, T. and Büschges, A.

[jeb247878](#)

Plunge-diving into dynamic body acceleration and energy expenditure in the Peruvian booby

van Oordt, F., Silva, J., Patterson, A. and Elliott, K. H.

[jeb249555](#)

Immunological resilience of a temperate catshark to a simulated marine heatwave

Martins, S., Ferreira, C., Mateus, A. P., Santos, C. P., Fonseca, J., Rosa, R. and Power, D. M.

[jeb247684](#)

Hypertonic water reabsorption with a parallel-current system via the glandular and saccular renal tubules of *Ruditapes philippinarum*

Seo, E. and Seo, Y.

[jeb249533](#)

Investigating *in vivo* force and work production of rat medial gastrocnemius at varying locomotor speeds using a muscle avatar

Bemis, C., Konow, N., Daley, M. A. and Nishikawa, K.

[jeb248177](#)

ECR SPOTLIGHTS

ECR Spotlight – Hosain Bagheri

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ECR Spotlight – Sandra Martins

[jeb249671](#)

ECR Spotlight – Seth Shirazi

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