



Cover: The British Journal of Experimental Biology was launched in October 1923 to capitalise on the increasing interest of biologists in the use of experimental approaches to study the physiology of animals. Fast-forward to 2023 and we are very proud to be celebrating '100 years of discovery' in JEB (jeb245455). See the centenary web page at <https://journals.biologists.com/jeb/pages/100> for further information.

INSIDE JEB

CO₂ bee anaesthetic can cause complications

Kay, J. and Knight, K.

jeb245431

Microbiome lodgers help protect tadpoles from climate change

Knight, K.

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OUTSIDE JEB

Hey bumble bee, did you have a good year?

Glass, J. R.

jeb244988

Ricefish plugs keep eggs snug

Palecek, A.

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Fertilizers disrupt the electric feel of flowers

Jung, J.

jeb244985

Does turning up the heat affect how salmon eat?

Hardison, E. A.

jeb244987

EDITORIAL

JEB centenary 1923–2023: celebrating 100 years of discovery

Franklin, C. E.

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PERSPECTIVE

Class of 1923: looking back at the authors of JEB's first issue

Hankins, L. E. and Rutledge, C. E.

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REVIEW

Behavioral algorithms and neural mechanisms underlying odor-modulated locomotion in insects

Wechsler, S. P. and Bhandawat, V.

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SHORT COMMUNICATION

Maintaining control: metabolism of molting Arctic seals in water and when hauled out

Thometz, N. M., Rosen, D. A. S., Hermann-Sorensen, H., Meranda, M., Pardini, M. and Reichmuth, C.

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RESEARCH ARTICLES

The microbiome buffers tadpole hosts from heat stress: a hologenomic approach to understand host–microbe interactions under warming

Fontaine, S. S. and Kohl, K. D.

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Frequency-dependent viscosity of salmon ovarian fluid has biophysical implications for sperm–egg interactions

Graziano, M., Palit, S., Yethiraj, A., Immler, S., Gage, M. J. G. and Purchase, C. F.

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Impacts and mechanisms of CO₂ narcosis in bumble bees: narcosis depends on dose, caste and mating status and is not induced by anoxia

Cressman, A. and Amsalem, E.

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Catecholamines modulate the hypoxic ventilatory response of larval zebrafish (*Danio rerio*)

Kevin Pan, Y., Julian, T., Garvey, K. and Perry, S. F.

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Foot extension and retraction in the clam *Calyptogena okutanii* without any Keber's valve: an inflatable fastener bag model

Seo, E., Ohishi, K., Imaizumi-Ohashi, Y., Yokoi-Hayakawa, M., Yamaguchi, T. and Seo, Y.

jeb244857

Temporal configuration and modality of components determine the performance of bumble bees during the learning of a multimodal signal

Riveros, A. J.

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ECR SPOTLIGHTS

ECR Spotlight – Marco Graziano

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ECR Spotlight – Anna Cressman

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