



**Cover:** An inshore-offshore migration pattern occurred in seahorses who have been previously regarded as a sedentary species for a long time; water temperature is one of the essential environmental driving factors for their dispersal. Qin et al. (bio032888) report that acute thermal stress could increase the basal metabolic rates and expressions of corresponding genes and that high tolerance against thermal stress in the seahorses' reproductive system in was in line with the inshore-offshore pattern. Image provided by Qiang Lin and licensed under a Creative Commons Attribution 4.0 International license.

## RESEARCH ARTICLES

Cold acclimation conditions constrain plastic responses for resistance to cold and starvation in *Drosophila immigrans*  
**Pathak, A., Munjal, A. and Parkash, R.**  
bio034447

Spatio-temporal neural stem cell behavior leads to both perfect and imperfect structural brain regeneration in adult newts  
**Urata, Y., Yamashita, W., Inoue, T. and Agata, K.**  
bio033142

Temperature-induced physiological stress and reproductive characteristics of the migratory seahorse *Hippocampus erectus* during a thermal stress simulation  
**Qin, G., Johnson, C., Zhang, Y., Zhang, H., Yin, J., Miller, G., Turingan, R. G., Guisbert, E. and Lin, Q.**  
bio032888

Enhanced survival of BCG-stimulated dendritic cells: involvement of anti-apoptotic proteins and NF- $\kappa$ B  
**Kumar, P., John, V., Gupta, A. and Bhaskar, S.**  
bio032045

Anti-lipopolysaccharide egg yolk antibodies enhance the phagocytosis of mammalian phagocytes  
**Zhou, X. and Ma, S.**  
bio032821

Lateral line placodes of aquatic vertebrates are evolutionarily conserved in mammals  
**Washausen, S. and Knabe, W.**  
bio031815

Do wild-caught urban house sparrows show desensitized stress responses to a novel stressor?  
**Salleh Hudin, N., Teyssier, A., Aerts, J., Fairhurst, G. D., Strubbe, D., White, J., De Neve, L. and Lens, L.**  
bio031849

Core versus diet-associated and postprandial bacterial communities of the rainbow trout (*Oncorhynchus mykiss*) midgut and faeces  
**Mente, E., Nikouli, E., Antonopoulou, E., Martin, S. A. M. and Kormas, K. A.**  
bio034397

Tension-loaded bone marrow stromal cells potentiate the paracrine osteogenic signaling of co-cultured vascular endothelial cells  
**Jiang, Y. N., Zhao, J., Chu, F. T., Jiang, Y. Y. and Tang, G. H.**  
bio032482

A generalized model for communicating individuality through teleost swim bladder modulation  
**Matthews, C. A. and Beaujean, P.-P. J.**  
bio023515

Female *Drosophila melanogaster* respond to song-amplitude modulations  
**Brüggemeier, B., Porter, M. A., Vigoreaux, J. O. and Goodwin, S. F.**  
bio032003

Embryonic bone morphogenetic protein and nodal induce invasion in melanocytes and melanoma cells  
**Sinnberg, T., Niessner, H., Levesque, M. P., Dettweiler, C., Garbe, C. and Busch, C.**  
bio032656

Physiological evaluation of the behavior and epidermis of freshwater planarians (*Girardia tigrina* and *Girardia* sp.) exposed to stressors  
**Oliveira, M. S., Lopes, K. A. R., Leite, P. M. S. C. M., Morais, F. V. and Campos Velho, N. M. R.**  
bio029595

Hepatic glucose metabolic responses to digestible dietary carbohydrates in two isogenic lines of rainbow trout  
**Song, X., Marandel, L., Dupont-Nivet, M., Quillet, E., Geurden, I. and Panserat, S.**  
bio032896

## METHODS & TECHNIQUES

A semi-automatic and quantitative method to evaluate behavioral photosensitivity in animals based on the optomotor response (OMR)  
**Matsuo, M., Ando, Y., Kamei, Y. and Fukamachi, S.**  
bio033175

A temperature-adjusted developmental timer for precise embryonic staging  
**Winkley, K. and Veeman, M.**  
bio032110