



Cover: Anthropogenic sound sources are increasingly contributing to the general noise budget of the oceans. Sounds produced by human activities can cause physical, physiological and behavioural effects in marine fauna (including mammals, reptiles, fish and invertebrates). Cephalopods have showed morphological and ultrastructural evidence of massive acoustic trauma after low-frequency sound exposure. This picture is a SEM image of a *Sepia officinalis* hatchling showing its eight arms and two tentacles, the mouth and the funnel. Solé et al. (bio033860) show the first evidence of damage to two sensory epithelia (lateral line and statocyst) in three species of cephalopod hatchlings (*Sepia officinalis*, *Loligo vulgaris* and *Illex coindetii*) after having been exposed to sound. The difference in damage evolution in the two epithelia between the different species could be associated with critical periods of increased sensitivity to acoustic stimuli in the early stages of evolution. Image licensed under a Creative Commons Attribution 4.0 International license.

RESEARCH ARTICLES

A model of mucopolysaccharidosis type IIIB in pigs

Yang, Q., Zhao, X., Xing, Y., Jiang, C., Jiang, K., Xu, P., Liu, W., Ren, J. and Huang, L.

bio035386

Hypoxia-ischemia alters distribution of lysosomal proteins in rat cortex and hippocampus

Troncoso, M., Bannoud, N., Carvelli, L., Asensio, J., Seltzer, A. and Sosa, M. A.

bio036723

Survivin inhibits excessive autophagy in cancer cells but does so independently of its interaction with LC3

Humphry, N. J. and Wheatley, S. P.

bio037374

Plasma membrane damage caused by listeriolysin O is not repaired through endocytosis of the membrane pore

Nygård Skalmann, L., Holst, M. R., Larsson, E. and Lundmark, R.

bio035287

Role of water flow regime in the swimming behaviour and escape performance of a schooling fish

Nadler, L. E., Killen, S. S., Domenici, P. and McCormick, M. I.

bio031997

Hybridization between char species (*Salvelinus alpinus* and *Salvelinus fontinalis*): a fast track for novel allometric trajectories

Dupont Cyr, B.-A., Dufresne, F., Christen, F., Desrosiers, V., Proulx, É., Le François, N. R., Vandenberg, G. W. and Blier, P. U.

bio033332

Chromosomal instability causes sensitivity to protein folding stress and ATP depletion

Khan, M., Shaukat, Z., Saint, R. and Gregory, S. L.

bio038000

Red cell distribution width as a predictor of multiple organ dysfunction syndrome in patients undergoing heart valve surgery

Duchnowski, P., Hryniewiecki, T., Kuśmierczyk, M. and Szymanski, P.

bio036251

A critical period of susceptibility to sound in the sensory cells of cephalopod hatchlings.

Solé, M., Lenoir, M., Fortuño, J.-M., van der Schaar, M. and André, M.

bio033860

Novel phosphorylation states of the yeast spindle pole body

Fong, K. K., Zelter, A., Graczyk, B., Hoyt, J. M., Riffle, M., Johnson, R., MacCoss, M. J. and Davis, T. N.

bio033647

Bees with attitude: the effects of directed gusts on flight trajectories

Jakobi, T., Kolomenskiy, D., Ikeda, T., Watkins, S., Fisher, A., Liu, H. and Ravi, S.

bio034074

Epigenetic modifications by polyphenolic compounds alter gene expression in the hippocampus

Frolinger, T., Herman, F., Sharma, A., Sims, S., Wang, J. and Pasinetti, G. M.

bio035196

Reduction of X-ray-induced DNA damage in normal human cells treated with the PrC-210 radioprotector

Brand, M., Sommer, M., Jermusek, F., Fahl, W. E. and Uder, M.

bio035113

The RECK tumor-suppressor protein binds and stabilizes ADAMTS10

Matsuzaki, T., Kitayama, H., Omura, A., Nishimoto, E., Alexander, D. B. and Noda, M.

bio033985

Ubiquitin A-52 residue ribosomal protein fusion product 1 (Uba52) is essential for preimplantation embryo development

Mao, J., O'Gorman, C., Sutovsky, M., Zigo, M., Wells, K. D. and Sutovsky, P.

bio035717

METHODS AND TECHNIQUES

Neuronal cell culture from transgenic zebrafish models of neurodegenerative disease

Acosta, J. R., Watchon, M., Yuan, K. C., Fifita, J. A., Svahn, A. J., Don, E. K., Winnick, C. G., Blair, I. P., Nicholson, G. A., Cole, N. J., Goldsbury, C. and Laird, A. S.

bio036475

I spy with my little eye: a simple behavioral assay to test color sensitivity on digital displays

Knorr, A. G., Gravot, C. M., Gordy, C., Glasauer, S. and Straka, H.

bio035725