



Cover: It works! Juvenile lumpfish, *Cyclopterus lumpus*, is the new and effective biological delouser for farmed Atlantic salmon. The salmon louse, *Lepeophtheirus salmonis*, is an ectoparasitic copepod that causes major economic losses in Atlantic salmon aquaculture and a practical and feasible solution to this problem is of paramount interest. Imsland et al. (bio036301) assess the efficacy of lumpfish grazing on attached sea lice on Atlantic salmon and there were clear signs of lumpfish grazing on sea lice, with significantly lower average levels of sea lice per salmon. Overall, the data indicate that lumpfish is a suitable cold-water option for biological delousing of Atlantic salmon under large-scale production conditions. Image provided by Lars Olav Sparboe, Akvaplan-niva AS licensed under a Creative Commons Attribution 4.0 International license.

RESEARCH ARTICLES

Viability of dietary substitution of live microalgae with dry *Ulva rigida* in broodstock conditioning of the Pacific oyster (*Crassostrea gigas*)

Rato, A., Joaquim, S., Tavares, T. G., Martins, Z. E., Guedes, A. C., Pereira, L. F., Machado, J., Matias, A. M., Gonçalves, J. F. M., Vaz-Pires, P., Magnoni, L. J., Ozório, R. O. A. and Matias, D.

bio035923

Short chain ceramides disrupt immunoreceptor signaling by inhibiting segregation of Lo from Ld Plasma membrane components

Holowka, D., Thanapuasuan, K. and Baird, B.

bio034702

Prepulse inhibition in *Drosophila melanogaster* larvae

Matsumoto, Y., Shimizu, K., Arahata, K., Suzuki, M., Shimizu, A., Takei, K., Yamauchi, J., Hakeda-Suzuki, S., Suzuki, T. and Morimoto, T.

bio034710

Altered dynamics of scaRNA2 and scaRNA9 in response to stress correlates with disrupted nuclear organization

Logan, M. K., Burke, M. F. and Hebert, M. D.

bio037101

Oxytocin receptor signaling contributes to olfactory avoidance behavior induced by an unpleasant odorant

Osada, K., Ohta, T., Takai, R., Miyazono, S., Kashiwayanagi, M., Hidema, S. and Nishimori, K.

bio029140

Axial morphology and 3D neurocranial kinematics in suction-feeding fishes

Jimenez, Y. E., Camp, A. L., Grindall, J. D. and Brainerd, E. L.

bio036335

CXCR4/SDF1 signalling promotes sensory neuron clustering *in vitro*

Terheyden-Keighley, D., Zhang, X., Brand-Saberi, B. and Theiss, C.

bio035568

Physiological electric field works via the VEGF receptor to stimulate neovessel formation of vascular endothelial cells in a 3D environment

Chen, Y., Ye, L., Guan, L., Fan, P., Liu, R., Liu, H., Chen, J., Zhu, Y., Wei, X., Liu, Y. and Bai, H.

bio035204

The soluble transhydrogenase UdhA affecting the glutamate-dependent acid resistance system of *Escherichia coli* under acetate stress

Zhao, H., Zhou, F., Xing, Q., Cao, Z., Liu, J. and Zhu, G.

bio031856

Drosophila *mef2* is essential for normal mushroom body and wing development

Crittenden, J. R., Skoulakis, E. M. C., Goldstein, E. S. and Davis, R. L.

bio035618

Characterization of diabetic neuropathy progression in a mouse model of type 2 diabetes mellitus

De Gregorio, C., Contador, D., Campero, M., Ezquer, M. and Ezquer, F.

bio036830

rebuff regulates apical luminal matrix to control tube size in *Drosophila* trachea

Chandran, R. R., Scholl, A., Yang, Y. and Jiang, L.

bio036848

The small G protein Arl8 contributes to lysosomal function and long-range axonal transport in *Drosophila*

Rosa-Ferreira, C., Sweeney, S. T. and Munro, S.

bio035964

It works! Lumpfish can significantly lower sea lice infestation in large-scale salmon farming

Imsland, A. K. D., Hanssen, A., Nytrø, A. V., Reynolds, P., Jonassen, T. M., Hangstad, T. A., Elvegård, T. A., Urskog, T. C. and Mikalsen, B.

bio036301

Metabolic rates, swimming capabilities, thermal niche and stress response of the lumpfish, *Cyclopterus lumpus*

Hvas, M., Folkedal, O., Imsland, A. and Oppedal, F.

bio036079

CORRECTION

Correction: Do wild-caught urban house sparrows show desensitized stress responses to a novel stressor?

(doi:10.1242/bio.031849)

Hudin, N. S., Teyssier, A., Aerts, J., Fairhurst, G. D., Strubbe, D., White, J. I., De Neve, L. and Lens, L.

bio038513