RESEARCH ARTICLES

133 Innovative approaches to establish and characterize primary cultures: an ex vivo 3D system and the zebrafish model

141 Enhancing NAD⁺ salvage metabolism is neuroprotective in a PINK1 model of Parkinson’s disease
Lehmann, S., Loh, S. H. Y. and Martins, L. M.

148 Meningeal retinoic acid contributes to neocortical lamination and radial migration during mouse brain development
Haushalter, C., Schuhbaur, B., Dollé, P. and Rhinn, M.

161 Protein kinase C is involved with upstream signaling of methyl farnesoate for photoperiod-dependent sex determination in the water flea Daphnia pulex
Toyota, K., Sato, T., Tatarazako, N. and Iguchi, T.

165 The Crumbs_C isoform of Drosophila shows tissue- and stage-specific expression and prevents light-dependent retinal degeneration
Spannl, S., Kumichel, A., Hebbar, S., Kapp, K., Gonzalez-Gaitan, M., Winkler, S., Blawid, R., Jessberger, G. and Knust, E.

176 A feedback mechanism between PLD and deadenylase PARN for the shortening of eucharyotic poly(A) mRNA tails that is deregulated in cancer cells
Miller, T. E. and Gomez-Cambronero, J.

187 A developmental transcriptomic analysis of Pax1 and Pax9 in embryonic intervertebral disc development

200 A polycystin-type transient receptor potential (Trp) channel that is activated by ATP
Traynor, D. and Kay, R. R.

210 Diet quality determines lipase gene expression and lipase/esterase activity in Daphnia pulex
Koussoroplis, A.-M., Schwarzenberger, A. and Wacker, A.

217 Lipid droplet dynamics during Schizosaccharomyces pombe sporulation and their role in spore survival
Yang, H.-J., Osakada, H., Kojидani, T., Haraguchi, T. and Hiraoka, Y.

Analysis of the Fgrt²³⁴²Y mouse model shows condensation defects due to misregulation of Sox9 expression in prechondrocytic mesenchyme
Pesket, E., Kumar, S., Baird, W., Jaiswal, J., Li, M., Patel, P., Britto, J. A. and Pauws, E.

Dynamic analysis of the mesenchymal-epithelial transition of blood-brain barrier forming glia in Drosophila
Schwabe, T., Li, X. and Gaul, U.

Establishment and maintenance of sexual preferences that cause a reproductive isolation between medaka strains in close association
Ikawa, M., Ohya, E., Shimada, H., Kamijo, M. and Fukamachi, S.

MiR-142 modulates human pancreatic cancer proliferation and invasion by targeting hypoxia-inducible factor 1 (HIF-1α) in the tumor microenvironments
Lu, Y., Ji, N., Wei, W., Sun, W., Gong, X. and Wang, X.

Trehalose 6-phosphate signal is closely related to sorbitol in apple (Malus domestica Borkh. cv. Gala)
Zhang, W., Lunn, J. E., Feil, R., Wang, Y., Zhao, J., Tao, H., Guo, Y. and Zhao, Z.

The effect of foot posture on capacity to apply free moments to the ground: implications for fighting performance in great apes
Carrier, D. R. and Cunningham, C.

Identification of SSR markers closely linked to the yellow seed coat color gene in heading Chinese cabbage (Brassica rapa L. ssp. pekinensis)
Ren, Y., Wu, J., Zhao, J., Hao, L. and Zhang, L.

Vasotocin receptor blockade disrupts maternal care of offspring in a viviparous snake, Sistrurus miliarius
Lind, C. M., Birky, N. K., Porth, A. M. and Farrell, T. M.

Oocyte shuttle, a recombinant protein transporting donor DNA into the Xenopus oocyte in situ
Rungger, D., Muster, L., Georgiev, O. and Rungger-Brändle, E.

METHODS & TECHNIQUES

A genetically encoded biosensor for visualising hypoxia responses in vivo
CORRESPONDENCE

306 On the importance of understanding physiology when estimating energetics in cetaceans
Folkow, L. P. and Blix, A. S.

307 Response to ‘On the importance of understanding physiology when estimating energetics in cetaceans’
Fahlman, A., van der Hoop, J., Moore, M. J., Levine, G., Rocho-Levine, J. and Brodsky, M.

CORRECTION

CORRECTION: Innovative approaches to establish and characterize primary cultures: an ex vivo 3D system and the zebrafish model