Cover: Zebrafish chd7 del2 homozygous mutant (bottom) and wild-type fish (top) at 78 hours post-fertilization. Mutant fish have small eyes, an enlarged heart with edema and fail to inflate the swimbladder. The chd7 mutant has a disrupted mRNA reading frame and is a disease model for CHARGE syndrome. See article by Prykhozhij et al. on page 811. Cover image by Sergey Prykhozhij is licensed under a Creative Commons Attribution 4.0 International licence.

AT A GLANCE

679 Hypothalamic circuits regulating appetite and energy homeostasis: pathways to obesity
Timper, K. and Brüning, J. C.

REVIEW

691 Induced pluripotent stem cell models of lysosomal storage disorders
Borger, D. K., McMahon, B., Roshan Lal, T., Serra-Vinardell, J., Aflaki, E. and Sidransky, E.

RESEARCH ARTICLES

705 SlgA, encoded by the homolog of the human schizophrenia-associated gene PRODH, acts in clock neurons to regulate Drosophila aggression
Zwarts, L., Vulsteke, V., Buhl, E., Hodge, J. J. L. and Callaerts, P.

717 Dietary reversal of neuropathy in a murine model of prediabetes and metabolic syndrome

727 Paneth-cell-disruption-induced necrotizing enterocolitis in mice requires live bacteria and occurs independently of TLR4 signaling
White, J. R., Gong, H., Pope, B., Schlievert, P. and McElroy, S. J.

737 Characterization of Drosophila Saposin-related mutants as a model for lysosomal sphingolipid storage diseases
Sellin, J., Schulze, H., Paradis, M., Gosejacob, D., Papan, C., Shevchenko, A., Psathaki, O. E., Paululat, A., Thielisch, M., Sandhoff, K. and Hoch, M.

751 Upregulation of distinct collagen transcripts in post-surgery scar tissue: a study of conjunctival fibrosis

761 A Drosophila model of dominant inclusion body myopathy type 3 shows diminished myosin kinetics that reduce muscle power and yield myofibrillar defects

773 A mouse model for inherited renal fibrosis associated with endoplasmic reticulum stress
Piret, S. E., Olinger, E., Reed, A. A. C., Nesbit, M. A., Hough, T. A., Bentley, L., Devuyst, O., Cox, R. D. and Thakker, R. V.

787 Progesterone induces neuroprotection following reperfusion-promoted mitochondrial dysfunction after focal cerebral ischemia in rats
Andrabi, S. S., Parvez, S. and Tabassum, H.

RESOURCE ARTICLES

797 A classification system for zebrafish adipose tissues
Minchin, J. E. N. and Rawls, J. F.

811 A rapid and effective method for screening, sequencing and reporter verification of engineered frameshift mutations in zebrafish
Prykhozhij, S. V., Steele, S. L., Razaghi, B. and Berman, J. N.