RESEARCH ARTICLES

1345  Atg9 is required for intraluminal vesicles in amphisomes and autolysosomes
Bader, C. A., Shandala, T., Ng, Y. S., Johnson, I. R. D. and Brooks, D. A.

1356  The zebrafish Kupffer’s vesicle as a model system for the molecular mechanisms by which the lack of Polycystin-2 leads to stimulation of CFTR
Roxo-Rosa, M., Jacinto, R., Sampaio, P. and Lopes, S. S.

1367  Loss of arylformamidase with reduced thymidine kinase expression leads to impaired glucose tolerance

1376  Both ciliary and non-ciliary functions of Foxj1a confer Wnt/β-catenin signaling in zebrafish left-right patterning
Zhu, P., Xu, X. and Lin, X.

1387  Targeting of ribosomal protein S6 to dendritic spines by in vivo high frequency stimulation to induce long-term potentiation in the dentate gyrus
Nihonmatsu, I., Ohkawa, N., Saitoh, Y. and Inokuchi, K.

1395  Inter- vs intra-individual variation and temporal repeatability of escape responses in the coral reef fish Amblyglyphidodon curacao
Jornod, M. and Roche, D. G.

1400  α1b-Adrenergic receptor signaling controls circadian expression of Tnfrsf11b by regulating clock genes in osteoblasts
Hirai, T., Tanaka, K. and Togari, A.

1410  Sexual dimorphism in an animal model of Sjögren’s syndrome: a potential role for Th17 cells
Voigt, A., Esfandiar, L. and Nguyen, C. Q.

1420  Cellular population dynamics control the robustness of the stem cell niche
MacLean, A. L., Kirk, P. D. W. and Stumpf, M. P. H.

1427  E-cadherin cytoplasmic domain inhibits cell surface localization of endogenous cadherins and fusion of C2C12 myoblasts
Ozawa, M.

1436  Genome-wide ChIP-seq analysis of human TOP2B occupancy in MCF7 breast cancer epithelial cells

1448  Depletion or over-expression of Sh3px1 results in dramatic changes in cell morphology
Hicks, L., Liu, G., Ukken, F. P., Lu, S., Bollinger, K. E., O’Connor-Giles, K. and Gonsalvez, G. B.

1462  Generation of tissue-engineered small intestine using embryonic stem cell-derived human intestinal organoids

1473  The action of mimetic peptides on connexins protects fibroblasts from the negative effects of ischemia reperfusion

1481  There are four dynamically and functionally distinct populations of E-cadherin in cell junctions

1490  Evolution of enlarged body size of coal tits Parus ater in geographic isolation from two larger competitors, the crested tit Parus cristatus and the willow tit Parus montanus, on six Scandinavian islands
Norberg, R. Å. and Lindhe Norberg, U. M.

1509  Generation and analysis of knock-in mice carrying pseudohypoaldosteronism type II-causing mutations in the cullin 3 gene

1518  Epigenetic regulator Lid maintains germline stem cells through regulating JAK-STAT signaling pathway activity
Tarayrah, L., Li, Y., Gan, Q. and Chen, X.

1528  Do phages impact microbial dynamics, prokaryotic community structure and nutrient dynamics in Lake Bourget?
Meunier, A. and Jacquet, S.

1538  Hox11 genes regulate postnatal longitudinal bone growth and growth plate proliferation
Pineault, K. M., Swinehart, I. T., Garthus, K. N., Ho, E., Yao, Q., Schipani, E., Kozloff, K. M. and Wellik, D. M.

1549  Do circadian genes and ambient temperature affect substrate-borne signalling during Drosophila courtship?
Medina, I., Casal, J. and Fabre, C. C. G.

1558  Context-specific comparison of sleep acquisition systems in Drosophila
1569 Novel localization of formin mDia2: importin β-mediated delivery to and retention at the cytoplasmic side of the nuclear envelope
Shao, X., Kawauchi, K., Shivashankar, G. V. and Bershadsky, A. D.

1576 Mindbomb 2 is dispensable for embryonic development and Notch signalling in zebrafish
Mikami, S., Nakaura, M., Kawahara, A., Mizoguchi, T. and Itoh, M.

1583 The marbled crayfish as a paradigm for saltational speciation by autopolyploidy and parthenogenesis in animals

METHODS & TECHNIQUES
1595 Generation of primitive neural stem cells from human fibroblasts using a defined set of factors