



**Cover:** Human embryonic stem cell-derived intestinal organoid tissue seeded on a polymer scaffold and transplanted into mice showing impressive intestinal morphology highlighted by epithelial ECAD staining (green) and the intestinal stem cell marker OLFM4 (pink). Nuclei are stained with DAPI (blue). See the article by Finkbeiner et al., pages 1462. Image credit: Stacy Finkbeiner.

## RESEARCH ARTICLES

- 1345** Atg9 is required for intraluminal vesicles in amphisomes and autolysosomes  
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- 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  
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- 1367** Loss of arylformamidase with reduced thymidine kinase expression leads to impaired glucose tolerance  
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- 1448** Depletion or over-expression of Sh3px1 results in dramatic changes in cell morphology  
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- 1462** Generation of tissue-engineered small intestine using embryonic stem cell-derived human intestinal organoids  
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- 1558** Context-specific comparison of sleep acquisition systems in *Drosophila*  
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#### METHODS & TECHNIQUES

- 1595** Generation of primitive neural stem cells from human fibroblasts using a defined set of factors  
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