



**Cover:** A confocal section through a 'Spectrum of Fate' zebrafish retina. Here, differently tuned fluorescent proteins, driven by the promoters of genes that are expressed in one or more cell types, give each of the major classes of retinal neurons its own unique spectrum. See **Research article** by Almeida et al. on p. 1971.

### DEVELOPMENT AT A GLANCE

- 1789 Actomyosin networks and tissue morphogenesis  
Munjal, A. and Lecuit, T.

### REVIEWS

- 1794 Bioengineering approaches to guide stem cell-based organogenesis  
Gjorevski, N., Ranga, A. and Lutolf, M. P.
- 1805 Genomic imprinting in development, growth, behavior and stem cells  
Plasschaert, R. N. and Bartolomei, M. S.

### STEM CELLS AND REGENERATION

- 1814 Recapitulation of morphogenetic cell shape changes enables wound re-epithelialisation  
Razzell, W., Wood, W. and Martin, P.
- 1821 Hemogenic endothelium generates mesoangioblasts that contribute to several mesodermal lineages *in vivo*  
Azzoni, E., Conti, V., Campana, L., Dellavalle, A., Adams, R. H., Cossu, G. and Brunelli, S.
- 1835 *egr-4*, a target of EGFR signaling, is required for the formation of the brain primordia and head regeneration in planarians  
Fraguas, S., Barberán, S., Iglesias, M., Rodríguez-Esteban, G. and Cebrià, F.
- 1848 Specification of regional intestinal stem cell identity during *Drosophila* metamorphosis  
Driver, I. and Ohlstein, B.

### RESEARCH REPORT

- 1857 CXCR7 prevents excessive CXCL12-mediated downregulation of CXCR4 in migrating cortical interneurons  
Abe, P., Mueller, W., Schütz, D., MacKay, F., Thelen, M., Zhang, P. and Stumm, R.

### RESEARCH ARTICLES

- 1864 miR-8 controls synapse structure by repression of the actin regulator Enabled  
Loya, C. M., McNeill, E. M., Bao, H., Zhang, B. and Van Vactor, D.
- 1875 A conserved axon type hierarchy governing peripheral nerve assembly  
Wang, L., Mongera, A., Bonanomi, D., Cyganek, L., Pfaff, S. L., Nüsslein-Volhard, C. and Marquardt, T.

- 1884 Growth control by a moving morphogen gradient during *Drosophila* eye development  
Wartlick, O., Jülicher, F. and Gonzalez-Gaitan, M.
- 1894 *Arabidopsis UNHINGED* encodes a VPS51 homolog and reveals a role for the GARP complex in leaf shape and vein patterning  
Pahari, S., Cormark, R. D., Blackshaw, M. T., Liu, C., Erickson, J. L. and Schultz, E. A.
- 1906 A Gli silencer is required for robust repression of gremlin in the vertebrate limb bud  
Li, Q., Lewandowski, J. P., Powell, M. B., Norrie, J. L., Cho, S. H. and Vokes, S. A.
- 1915 Clathrin heavy chain plays multiple roles in polarizing the *Drosophila* oocyte downstream of *Bic-D*  
Vazquez-Pianzola, P., Adam, J., Haldemann, D., Hain, D., Urlaub, H. and Suter, B.
- 1927 High-resolution analysis of gene activity during the *Xenopus* mid-blastula transition  
Collart, C., Owens, N. D. L., Bhaw-Rosun, L., Cooper, B., De Domenico, E., Patrushev, I., Sesay, A. K., Smith, J. N., Smith, J. C. and Gilchrist, M. J.
- 1940 Semaphorin 5B is a repellent cue for sensory afferents projecting into the developing spinal cord  
Liu, R. Q., Wang, W., Legg, A., Abramyan, J. and O'Connor, T. P.
- 1950 Cadherin 99C regulates apical expansion and cell rearrangement during epithelial tube elongation  
Chung, S. and Andrew, D. J.
- 1961 Noonan and LEOPARD syndrome Shp2 variants induce heart displacement defects in zebrafish  
Bonetti, M., Paardekooper Overman, J., Tessadori, F., Noël, E., Bakkers, J. and den Hertog, J.

### TECHNIQUES AND RESOURCES

- 1971 Spectrum of Fates: a new approach to the study of the developing zebrafish retina  
Almeida, A. D., Boije, H., Chow, R. W., He, J., Tham, J., Suzuki, S. C. and Harris, W. A.

### CORRECTION

- 1981 Measuring signal RAtio for limb patterning