



**Cover:** *Drosophila* third instar larval eye disc attached to a brain lobe. The transcription factor Cut (red) is expressed in many cells, including the wrapping glia (GFP, green), and forms part of a transcriptional network controlling glial development in the *Drosophila* visual system. Neuronal membranes are in blue. See Research article by Bauke et al. on p. 2184.

### SPOTLIGHTS

2083 An interview with Deepak Srivastava  
Grewal, S.

2085 An interview with Rudolf Jaenisch  
Aguilar, A.

### DEVELOPMENT AT A GLANCE

2088 Neuronal polarization  
Takano, T., Xu, C., Funahashi, Y., Namba, T. and  
Kaibuchi, K.

### REVIEWS

2094 Orchestrating liver development  
Gordillo, M., Evans, T. and Gouon-Evans, V.

2109 Adding a spatial dimension to postnatal  
ventricular-subventricular zone neurogenesis  
Fiorelli, R., Azim, K., Fischer, B. and Raineteau, O.

### STEM CELLS AND REGENERATION

2121 Brachyury and SMAD signalling collaboratively orchestrate  
distinct mesoderm and endoderm gene regulatory  
networks in differentiating human embryonic stem cells  
Faial, T., Bernardo, A. S., Mendjan, S., Diamanti, E.,  
Ortmann, D., Gentsch, G. E., Mascetti, V. L.,  
Trotter, M. W. B., Smith, J. C. and Pedersen, R. A.

2136 Matrix metalloproteinase 9 modulates collagen matrices  
and wound repair  
LeBert, D. C., Squirrell, J. M., Rindy, J., Broadbridge, E.,  
Lui, Y., Zakrzewska, A., Eliceiri, K. W., Meijer, A. H. and  
Huttenlocher, A.

2147 Rab8a vesicles regulate Wnt ligand delivery and Paneth  
cell maturation at the intestinal stem cell niche  
Das, S., Yu, S., Sakamori, R., Vedula, P., Feng, Q.,  
Flores, J., Hoffman, A., Fu, J., Stypulkowski, E.,  
Rodriguez, A., Dobrowolski, R., Harada, A., Hsu, W.,  
Bonder, E. M., Verzi, M. P. and Gao, N.

2163 Dnmt1 is essential to maintain progenitors in the perinatal  
intestinal epithelium  
Elliott, E. N., Sheaffer, K. L., Schug, J., Stappenbeck, T. S.  
and Kaestner, K. H.

### RESEARCH ARTICLES

2173 Innexin7a forms junctions that stabilize the basal  
membrane during cellularization of the blastoderm  
in *Tribolium castaneum*  
van der Zee, M., Benton, M. A., Vazquez-Faci, T.,  
Lamers, G. E. M., Jacobs, C. G. C. and Rabouille, C.

2184 A transcriptional network controlling glial development in  
the *Drosophila* visual system  
Bauke, A.-C., Sasse, S., Matzat, T. and Klämbt, C.

2194 Intraflagellar transport 27 is essential for hedgehog  
signaling but dispensable for ciliogenesis during  
hair follicle morphogenesis  
Yang, N., Li, L., Eguether, T., Sundberg, J. P.,  
Pazour, G. J. and Chen, J.

2203 Tissue-specific roles of *Fgfr2* in development of the  
external genitalia  
Gredler, M. L., Seifert, A. W. and Cohn, M. J.

### TECHNIQUES AND RESOURCES

2213 *In vitro* myelin formation using embryonic stem cells  
Kerman, B. E., Kim, H. J., Padmanabhan, K., Mei, A.,  
Georges, S., Joens, M. S., Fitzpatrick, J. A. J.,  
Jappelli, R., Chandross, K. J., August, P. and  
Gage, F. H.

### CORRECTION

2226 The transmembrane protein Crumbs displays complex  
dynamics during follicular morphogenesis and is  
regulated competitively by Moesin and aPKC  
Sherrard, K. M. and Fehon, R. G.