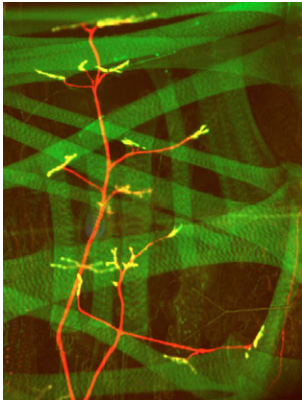


Development



Cover: Confocal micrograph of the neuromuscular innervation pattern of an abdominal hemisegment of a living *Drosophila* larva. Body wall muscles and the postsynaptic apparatus are stained with a green fluorescent protein. Motor nerves and presynaptic terminals express a red fluorescent protein. Neuromuscular junctions appear in yellow. **See research article by Meyer and Aberle on p. 4035.**



A third-instar *Drosophila* wing imaginal disc stained to visualise *Grh-lacZ* expression. In this study, Yao et al. report that vertebrate Schnurri (Shn) proteins mediate Bmp signalling via a conserved mechanism shared with *Drosophila* Shn proteins. Shn proteins, they report, recruit co-activators and co-repressors in a context-dependent manner, rather than acting as dedicated activators or repressors themselves. **See research article on p. 4025.**

CORRESPONDENCE

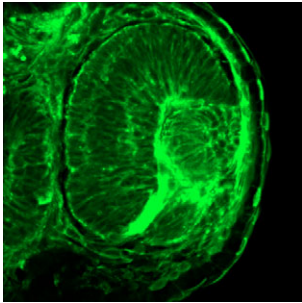
- 3951** A dual role for 7-dehydrocholesterol reductase in regulating Hedgehog signalling?
Bijlsma, M. F., Peppelenbosch, M. P. and Spek, C. A.
- 3952** More challenges ahead of DHCR7's role in Hh signaling
Koide, T., Hayata, T. and Cho, K. W. Y.

RESEARCH REPORT

- 3955** ASYMMETRIC LEAVES1 and auxin activities converge to repress *BREVIPEDICELLUS* expression and promote leaf development in *Arabidopsis*
Hay, A., Barkoulas, M. and Tsiantis, M.

RESEARCH ARTICLES

- 3963** The γ TuRC components Grip75 and Grip128 have an essential microtubule-anchoring function in the *Drosophila* germline
Vogt, N., Koch, I., Schwarz, H., Schnorrer, F. and Nüsslein-Volhard, C.
- 3973** A caudal mRNA gradient controls posterior development in the wasp *Nasonia*
Olesnický, E. C., Brent, A. E., Tonnes, L., Walker, M., Pultz, M. A., Leaf, D. and Desplan, C.
- 3983** Semaphorin 3d promotes cell proliferation and neural crest cell development downstream of TCF in the zebrafish hindbrain
Berndt, J. D. and Halloran, M. C.
- 3993** Zinc-finger genes *Fez* and *Fez-like* function in the establishment of diencephalon subdivisions
Hirata, T., Nakazawa, M., Muraoka, O., Nakayama, R., Suda, Y. and Hibi, M.
- 4005** Interaction between Polo and BicD proteins links oocyte determination and meiosis control in *Drosophila*
Mirouse, V., Formstecher, E. and Couderc, J.-L.
- 4015** The bHLH transcription factor *hand2* is essential for noradrenergic differentiation of sympathetic neurons
Lucas, M. E., Müller, F., Rüdiger, R., Henion, P. D. and Rohrer, H.
- 4025** Schnurri transcription factors from *Drosophila* and vertebrates can mediate Bmp signaling through a phylogenetically conserved mechanism
Yao, L.-C., Blitz, I. L., Peiffer, D. A., Phin, S., Wang, Y., Ogata, S., Cho, K. W. Y., Arora, K. and Warrior, R.
- 4035** At the next stop sign turn right: the metalloprotease Tolloid-related 1 controls defasciculation of motor axons in *Drosophila*
Meyer, F. and Aberle, H.
- 4045** Translational control of *regA*, a key gene controlling cell differentiation in *Volvox carteri*
Babinger, K., Hallmann, A. and Schmitt, R.
- 4053** The role of Tudor domains in germline development and polar granule architecture
Arkov, A. L., Wang, J.-Y. S., Ramos, A. and Lehmann, R.
- 4063** The yolk syncytial layer regulates myocardial migration by influencing extracellular matrix assembly in zebrafish
Sakaguchi, T., Kikuchi, Y., Kuroiwa, A., Takeda, H. and Stainier, D. Y. R.
- 4073** Cardioblast-intrinsic Tinman activity controls proper diversification and differentiation of myocardial cells in *Drosophila*
Zaffran, S., Reim, I., Qian, L., Lo, P. C., Bodmer, R. and Frasch, M.



The eye of a Shroom2-SPL-MO *Xenopus* morphant embryo in which the retinal pigment epithelium has invaded the retina with numerous apical protrusions (actin localisation shown in green). These and other findings show that Shroom2 governs pigment granule localisation at the apical surface of epithelial cells and, unexpectedly, that it shares certain functions with Shroom3. **See research article on p. 4109.**

4085 Cadherin is required for dendritic morphogenesis and synaptic terminal organization of retinal horizontal cells

Tanabe, K., Takahashi, Y., Sato, Y., Kawakami, K., Takeichi, M. and Nakagawa, S.

4097 Characterization and function of the bHLH-O protein XHes2: insight into the mechanisms controlling retinal cell fate decision

Sölter, M., Locker, M., Boy, S., Taelman, V., Bellefroid, E. J., Perron, M. and Pieler, T.

4109 Shroom2 (APXL) regulates melanosome biogenesis and localization in the retinal pigment epithelium

Fairbank, P. D., Lee, C., Ellis, A., Hildebrand, J. D., Gross, J. M. and Wallingford, J. B.

DEVELOPMENT AND DISEASE

4119 A dynamic expression survey identifies transcription factors relevant in mouse digestive tract development

Choi, M. Y., Romer, A. I., Hu, M., Lepourcelet, M., Mechoor, A., Yesilaltay, A., Krieger, M., Gray, P. A. and Shivdasani, R. A.