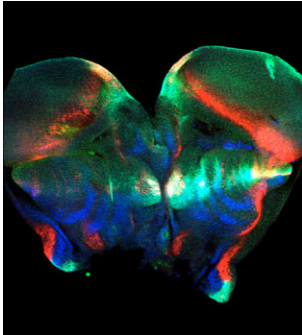
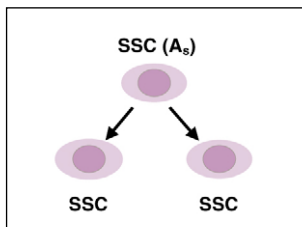


# Development



**Cover:** Organising the *Drosophila* adult head: a work in progress. Two pupal eye-antennal discs have everted and fused to give pairs of eyes (top), antennae (middle) and maxillary palps (bottom), the organisation of which can be seen by *dpp-lacZ* expression (red), anti-Wingless (green) and anti-Engrailed/Invected (blue) markers. See research article by Lebreton et al. on p. 2301.



In recent years, ES cell-like cells have been obtained from cultured mouse spermatogonial stem cells (SSCs) using various approaches, which Dirk de Rooij reviews here, together with the potential uses of these pluripotent cells in regenerative medicine and for studying stem cell differentiation. See review on p. 2207.

## MEETING REVIEW

- 2203** Turning neurons into a nervous system  
Grove, E. A.

## REVIEW

- 2207** Deriving multipotent stem cells from mouse spermatogonial stem cells: a new tool for developmental and clinical research  
de Rooij, D. G. and Mizrak, S. C.

## RESEARCH REPORTS

- 2215** JAWS coordinates chondrogenesis and synovial joint positioning  
Sohaskey, M. L., Yu, J., Diaz, M. A., Plaas, A. H. and Harland, R. M.
- 2221** Sonic hedgehog signalling from foregut endoderm patterns the avian nasal capsule  
Benouaiche, L., Gitton, Y., Vincent, C., Couly, G. and Levi, G.

## RESEARCH ARTICLES

- 2227** Control of cell flattening and junctional remodeling during squamous epithelial morphogenesis in *Drosophila*  
Pope, K. L. and Harris, T. J. C.
- 2239** Genetic identification of HSD-1, a conserved steroidogenic enzyme that directs larval development in *Caenorhabditis elegans*  
Patel, D. S., Fang, L. L., Svy, D. K., Ruvkun, G. and Li, W.
- 2251** Notch signaling augments the canonical Wnt pathway to specify the size of the otic placode  
Jayasena, C. S., Ohyama, T., Segil, N. and Groves, A. K.
- 2263** *mls-2* and *vab-3* control glia development, *hlh-17*/Olig expression and glia-dependent neurite extension in *C. elegans*  
Yoshimura, S., Murray, J. I., Lu, Y., Waterston, R. H. and Shaham, S.
- 2277** Src family kinases are required for WNT5 signaling through the Derailed/RYK receptor in the *Drosophila* embryonic central nervous system  
Wouda, R. R., Bansraj, M. R. K. S., de Jong, A. W. M., Noordermeer, J. N. and Fradkin, L. G.
- 2289** Localised axial progenitor cell populations in the avian tail bud are not committed to a posterior Hox identity  
McGrew, M. J., Sherman, A., Lillico, S. G., Ellard, F. M., Radcliffe, P. A., Gilhooley, H. J., Mitrophanous, K. A., Cambray, N., Wilson, V. and Sang, H.
- 2301** Timing of Wingless signalling distinguishes maxillary and antennal identities in *Drosophila melanogaster*  
Lebreton, G., Faucher, C., Cribbs, D. L. and Benassayag, C.
- 2311** Induction of mirror-image supernumerary jaws in chicken mandibular mesenchyme by Sonic Hedgehog-producing cells  
Brito, J. M., Teillet, M.-A. and Le Douarin, N. M.
- 2321**  $\beta$ -Catenin has sequential roles in the survival and specification of ventral dermis  
Ohtola, J., Myers, J., Akhtar-Zaidi, B., Zuzindlak, D., Sandesara, P., Yeh, K., Mackem, S. and Atit, R.
- 2331** LKB1 in endothelial cells is required for angiogenesis and TGF $\beta$ -mediated vascular smooth muscle cell recruitment  
Londesborough, A., Vaahtomeri, K., Tiainen, M., Katajisto, P., Ekman, N., Vallenius, T. and Mäkelä, T. P.