

Development



Cover: Determinate growth and floral meristem initiation require the combined activity of the *ids1* and *sid1* transcription factors in maize. Hand sections of *ids1* spikelets show an indeterminate meristem with extra florets (left), whereas double mutants with *sid1* (right) have enhanced indeterminacy with no lateral florets. See research report by Chuck et al. on p. 3013.



The vertebrate brain develops in close association with neighbouring tissues. As discussed by Marianne Bronner-Fraser, the molecular and evolutionary relationships between the forming nervous system and other craniofacial structures were at the focus of a recent meeting. See meeting review on p. 2995.

MEETING REVIEW

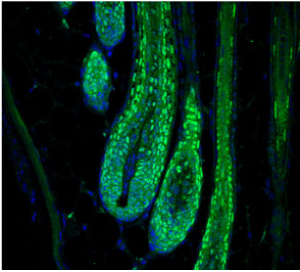
- 2995** On the trail of the 'new head' in *Les Treilles*
Bronner-Fraser, M.

RESEARCH REPORTS

- 3001** V2a and V2b neurons are generated by the final divisions of pair-producing progenitors in the zebrafish spinal cord
Kimura, Y., Satou, C. and Higashijima, S.
- 3007** Non-cell-autonomous effects of *Ret* deletion in early enteric neurogenesis
Bogni, S., Trainor, P., Natarajan, D., Krumlauf, R. and Pachnis, V.
- 3013** Floral meristem initiation and meristem cell fate are regulated by the maize *AP2* genes *ids1* and *sid1*
Chuck, G., Meeley, R. and Hake, S.

RESEARCH ARTICLES

- 3021** Negative-feedback regulation of proneural proteins controls the timing of neural precursor division
Chang, P.-J., Hsiao, Y.-L., Tien, A.-C., Li, Y.-C. and Pi, H.
- 3031** Reciprocal roles for *bowl* and *lines* in specifying the peripodial epithelium and the disc proper of the *Drosophila* wing primordium
Nusinow, D., Greenberg, L. and Hatini, V.
- 3043** Sphingosine-1-phosphate receptors regulate individual cell behaviours underlying the directed migration of prechordal plate progenitor cells during zebrafish gastrulation
Kai, M., Heisenberg, C.-P. and Tada, M.
- 3053** Chato, a KRAB zinc-finger protein, regulates convergent extension in the mouse embryo
García-García, M. J., Shibata, M. and Anderson, K. V.
- 3063** Fgfs control homeostatic regeneration in adult zebrafish fins
Wills, A. A., Kidd, A. R., III, Lepilina, A. and Poss, K. D.
- 3071** Multiple *Notch* signaling events control *Drosophila* CNS midline neurogenesis, gliogenesis and neuronal identity
Wheeler, S. R., Stagg, S. B. and Crews, S. T.
- 3081** Distinct sequential cell behaviours direct primitive endoderm formation in the mouse blastocyst
Plusa, B., Piliszek, A., Frankenberg, S., Artus, J. and Hadjantonakis, A.-K.
- 3093** A new family of transcription factors
Yamada, Y., Wang, H. Y., Fukuzawa, M., Barton, G. J. and Williams, J. G.
- 3103** Planar polarity genes in the *Drosophila* wing regulate the localisation of the FH3-domain protein Multiple Wing Hairs to control the site of hair production
Strutt, D. and Warrington, S. J.
- 3113** Single-cell gene profiling defines differential progenitor subclasses in mammalian neurogenesis
Kawaguchi, A., Ikawa, T., Kasukawa, T., Ueda, H. R., Kurimoto, K., Saitou, M. and Matsuzaki, F.
- 3125** A crucial role for hnRNP K in axon development in *Xenopus laevis*
Liu, Y., Gervasi, C. and Szaro, B. G.



Dlx3 expression (green) in P9 mouse hair follicles, from a study that reports that Dlx3 is a transcriptional regulator of hair formation and regeneration that is essential for hair morphogenesis, differentiation and cycling programmes. **See research article on p. 3149.**

- 3137** Gsk3 β /PKA and Gli1 regulate the maintenance of neural progenitors at the midbrain-hindbrain boundary in concert with E(Spl) factor activity
Ninkovic, J., Stigloher, C., Lillesaar, C. and Bally-Cuif, L.

DEVELOPMENT AND DISEASE

- 3149** Dlx3 is a crucial regulator of hair follicle differentiation and cycling
Hwang, J., Mehrani, T., Millar, S. E. and Morasso, M. I.
- 3161** Hedgehog signaling to distinct cell types differentially regulates coronary artery and vein development
Lavine, K. J., Long, F., Choi, K., Smith, C. and Ornitz, D. M.
- 3173** Corrigendum