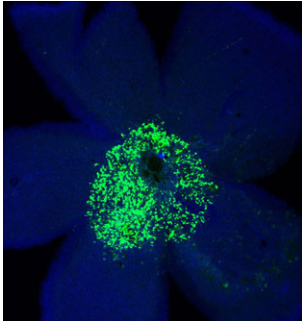
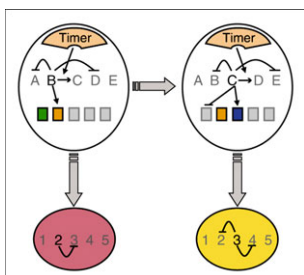


Development



Cover: A flat-mounted retina from an E16.5 mouse embryo electroporated in utero with a *Ptc1^{Δloop2}* construct and *EGFP* reporter (green), showing retinal ganglion cells where Shh signal transduction has been abrogated. The retina is counterstained with Hoechst (blue). Shh secreted from retinal ganglion cells is autonomously required for the proper growth and navigation of retinal axons. See research article by Sánchez-Camacho and Bovolenta on p. 3531.



The timing of a neuron's birth is important for specifying its fate. Here, Gould and colleagues propose that the regulatory principles that underpin this temporal specification are shared between invertebrates and vertebrates even if the specification factors involved are not. See Hypothesis on p. 3481.

MEETING REVIEW

- 3475** Chromatin and the cell cycle meet in Madrid
Dominguez, M. and Berger, F.

HYPOTHESIS

- 3481** Temporal control of neuronal diversity: common regulatory principles in insects and vertebrates?
Jacob, J., Maurange, C. and Gould, A. P.

RESEARCH ARTICLES

- 3491** Pdm and Castor close successive temporal identity windows in the NB3-1 lineage
Tran, K. D. and Doe, C. Q.
- 3501** The endosperm-specific *ZHOUP1* gene of *Arabidopsis thaliana* regulates endosperm breakdown and embryonic epidermal development
Yang, S., Johnston, N., Talideh, E., Mitchell, S., Jeffree, C., Goodrich, J. and Ingram, G.
- 3511** Functional importance of evolutionally conserved Tbx6 binding sites in the presomitic mesoderm-specific enhancer of *Mesp2*
Yasuhiko, Y., Kitajima, S., Takahashi, Y., Oginuma, M., Kagiwada, H., Kanno, J. and Saga, Y.
- 3521** PDGF signalling controls the migration of mesoderm cells during chick gastrulation by regulating N-cadherin expression
Yang, X., Chrisman, H. and Weijer, C. J.
- 3531** Autonomous and non-autonomous Shh signalling mediate the in vivo growth and guidance of mouse retinal ganglion cell axons
Sánchez-Camacho, C. and Bovolenta, P.
- 3543** Functional resolution of duplicated *hoxb5* genes in teleosts
Jarinova, O., Hatch, G., Poitras, L., Prudhomme, C., Grzyb, M., Aubin, J., Bérubé-Simard, F.-A., Jeannotte, L. and Ekker, M.
- 3555** Notch signaling is required for the maintenance of enteric neural crest progenitors
Okamura, Y. and Saga, Y.

DEVELOPMENT AND DISEASE

- 3567** An essential role for frizzled 5 in mammalian ocular development
Liu, C. and Nathans, J.
- 3577** Pbx1 functions in distinct regulatory networks to pattern the great arteries and cardiac outflow tract
Chang, C.-P., Stankunas, K., Shang, C., Kao, S.-C., Twu, K. Y. and Cleary, M. L.
- 3587** PTEN deficiency causes dyschondroplasia in mice by enhanced hypoxia-inducible factor 1 α signaling and endoplasmic reticulum stress
Yang, G., Sun, Q., Teng, Y., Li, F., Weng, T. and Yang, X.
- 3599** An FGF autocrine loop initiated in second heart field mesoderm regulates morphogenesis at the arterial pole of the heart
Park, E. J., Watanabe, Y., Smyth, G., Miyagawa-Tomita, S., Meyers, E., Klingensmith, J., Camenisch, T., Buckingham, M. and Moon, A. M.

- 3611** *Frs2 α* -deficiency in cardiac progenitors disrupts a subset of FGF signals required for outflow tract morphogenesis
Zhang, J., Lin, Y., Zhang, Y., Lan, Y., Lin, C., Moon, A. M., Schwartz, R. J., Martin, J. F. and Wang, F.
- 3623** Corrigendum