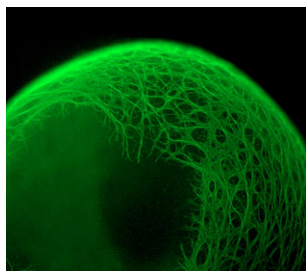
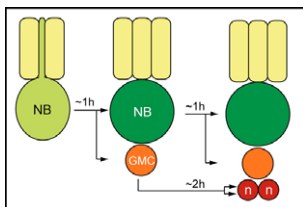


Development



Cover: Whole-mount preparation of chick embryo stomach at day 7 of development, showing the intricate network of the neural crest-derived intrinsic enteric nervous system as labelled by neuron-specific β III tubulin antibody. See research article by Barlow et al. on p. 1681.



Stem cells face a uniquely difficult task: balancing self-renewal and proliferation with cell cycle exit and differentiation. As Chris Doe discusses, recent studies of *Drosophila* and mammalian neural stem cells have shed light on how stem cells achieve this balance and on the proteins, processes and pathways that converge to regulate neural progenitor self-renewal. See review on p. 1575.

MEETING REVIEW

- 1569** Stem cell researchers find their niche
Dzierzak, E. and Enver, T.

REVIEW

- 1575** Neural stem cells: balancing self-renewal with differentiation
Doe, C. Q.

RESEARCH REPORT

- 1589** Tbx3 controls the fate of hepatic progenitor cells in liver development by suppressing *p19^{ARF}* expression
Suzuki, A., Sekiya, S., Büscher, D., Izpisua Belmonte, J. C. and Taniguchi, H.

RESEARCH ARTICLES

- 1597** Different autonomous myogenic cell populations revealed by ablation of Myf5-expressing cells during mouse embryogenesis
Gensch, N., Borchardt, T., Schneider, A., Riethmacher, D. and Braun, T.
- 1605** Neuropilin 1 and 2 control cranial gangliogenesis and axon guidance through neural crest cells
Schwarz, Q., Vieira, J. M., Howard, B., Eickholt, B. J. and Ruhrberg, C.
- 1615** Requirement for Foxd3 in the maintenance of neural crest progenitors
Teng, L., Mundell, N. A., Frist, A. Y., Wang, Q. and Labosky, P. A.
- 1625** Wnt7b stimulates embryonic lung growth by coordinately increasing the replication of epithelium and mesenchyme
Rajagopal, J., Carroll, T. J., Guseh, J. S., Bores, S. A., Blank, L. J., Anderson, W. J., Yu, J., Zhou, Q., McMahon, A. P. and Melton, D. A.
- 1635** Cell type specificity of a diffusible inducer is determined by a GATA family transcription factor
Keller, T. and Thompson, C. R. L.
- 1647** Live imaging of the *Dictyostelium* cell cycle reveals widespread S phase during development, a G2 bias in spore differentiation and a premitotic checkpoint
Muramoto, T. and Chubb, J. R.
- 1659** Smt3 is required for *Drosophila melanogaster* metamorphosis
Talamillo, A., Sánchez, J., Cantera, R., Pérez, C., Martín, D., Caminero, E. and Barrio, R.
- 1669** The YPWM motif links Antennapedia to the basal transcriptional machinery
Prince, F., Katsuyama, T., Oshima, Y., Plaza, S., Resendez-Perez, D., Berry, M., Kurata, S. and Gehring, W. J.
- 1681** Critical numbers of neural crest cells are required in the pathways from the neural tube to the foregut to ensure complete enteric nervous system formation
Barlow, A. J., Wallace, A. S., Thapar, N. and Burns, A. J.
- 1693** Tbx2b is required for the development of the parapineal organ
Snelson, C. D., Santhakumar, K., Halpern, M. E. and Gamse, J. T.
- 1703** Dynamic regulation of the expression of neurotrophin receptors by Runx3
Nakamura, S., Senzaki, K., Yoshikawa, M., Nishimura, M., Inoue, K., Ito, Y., Ozaki, S. and Shiga, T.

DEVELOPMENT AND DISEASE

- 1713** The mutation *ROR2*^{W749X}, linked to human BDB, is a recessive mutation in the mouse, causing brachydactyly, mediating patterning of joints and modeling recessive Robinow syndrome
Raz, R., Stricker, S., Gazzero, E., Clor, J. L., Witte, F., Nistala, H., Zabski, S., Pereira, R. C., Stadmeier, L., Wang, X., Gowen, L., Sleeman, M. W., Yancopoulos, G. D., Canalis, E., Mundlos, S., Valenzuela, D. M. and Economides, A. N.
- 1725** Deafness in mice lacking the T-box transcription factor Tbx18 in otic fibrocytes
Trowe, M.-O., Maier, H., Schweizer, M. and Kispert, A.