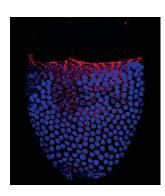
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Development



Cover: At a transition during Drosophila oogenesis, Tramtrack69 (TTK) restricts responses to the correct locations. First, Broad (blue) is reduced in the midline T and in ttk cells, but apices (E-cadherin, red) are unchanged. Later, ttk cells respond synchronously with other cells, including apically constricting and partially re-elevating Broad with the roof cells. See Research article by Boyle and Berg on p. 4187.

EDITORIAL

4065 Hello goodbye Smith, J.

BOOK REVIEWS

4067 Penetrating the black box of phylogenetic analysis **Hileman, L. C.**

4068 Models for the future Shimeld, S.

4069 Fleshing out the skeletal system **Yang**, **Y**.

4070 A guide to the productive poking, prodding and injection of cells **Klymkowsky, M. W.**

4072 An essential glycobiology resource for developmental biologists **Lin, X.**

4074 Getting to grips with DNA methylation **Meehan, R. R.**

4075 Helpful introduction to signal transduction **McKnight, G. S.**

RESEARCH REPORTS

4077 Calmodulin-dependent protein kinase gamma 3 (CamKIIγ3) mediates the cell cycle resumption of metaphase II eggs in mouse Chang, H.-Y., Minahan, K., Merriman, J. A. and Jones, K. T.

4083 Secreted Frizzled-related proteins enhance the diffusion of Wnt ligands and expand their signalling range **Mii, Y. and Taira, M.**

RESEARCH ARTICLES

Sanpodo: a context-dependent activator and inhibitor of Notch signaling during asymmetric divisions
 Babaoglan, A. B., O'Connor-Giles, K. M., Mistry, H., Schickedanz, A., Wilson, B. A. and Skeath, J. B.

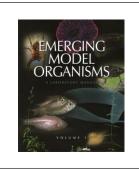
4099 Cdx2 regulation of posterior development through non-Hox targets Savory, J. G. A., Bouchard, N., Pierre, V., Rijli, F. M., De Repentigny, Y., Kothary, R. and Lohnes, D.

4111 Patched regulates Smoothened trafficking using lipoprotein-derived lipids Khaliullina, H., Panáková, D., Eugster, C., Riedel, F., Carvalho, M. and Eaton, S.

4123 The cadherin Fat2 is required for planar cell polarity in the *Drosophila* ovary **Viktorinová**, **I.**, **König**, **T.**, **Schlichting**, **K.** and **Dahmann**, **C**.

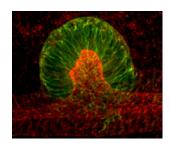
4133 Effete-mediated degradation of Cyclin A is essential for the maintenance of germline stem cells in *Drosophila*Chen, D., Wang, Q., Huang, H., Xia, L., Jiang, X., Kan, L., Sun, Q. and Chen, D.

4143 Atf4 regulates chondrocyte proliferation and differentiation during endochondral ossification by activating *Ihh* transcription Wang, W., Lian, N., Li, L., Moss, H. E., Wang, W., Perrien, D. S., Elefteriou, F. and Yang, X.



In this issue, *Development*'s annual Book review section covers a broad range of topics that are relevant to developmental biologists, from phylogenetic analysis to emerging model organisms, microinjection and DNA methylation. See Book reviews on pp. 4067-4075.

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Budded rat Wolffian duct in culture, immunolabelled for the GDNF coreceptor GFRc1 (green), the epithelial marker E-cadherin and the tight junction protein ZO-1 (both red), from a study that shows that neuropeptide Y facilitates GDNF-induced ureteric bud formation from Wolffian ducts. See Research article by Choi et al. on p. 4213.

- 4155 N-cadherin acts in concert with Slit1-Robo2 signaling in regulating aggregation of placode-derived cranial sensory neurons Shiau, C. E. and Bronner-Fraser, M.
- 4165 Drosophila laminins act as key regulators of basement membrane assembly and morphogenesis
 Urbano, J. M., Torgler, C. N., Molnar, C., Tepass, U., López-Varea, A., Brown, N. H., de Celis, J. F. and Martín-Bermudo, M. D.
- 4177 The Gli2 transcriptional activator is a crucial effector for lhh signaling in osteoblast development and cartilage vascularization

 Joeng, K. S. and Long, F.
- 4187 Control in time and space: Tramtrack69 cooperates with Notch and Ecdysone to repress ectopic fate and shape changes during *Drosophila* egg chamber maturation Boyle, M. J. and Berg, C. A.
- 4199 Repression of Wasp by JAK/STAT signalling inhibits medial actomyosin network assembly and apical cell constriction in intercalating epithelial cells Bertet, C., Rauzi, M. and Lecuit, T.
- 4213 Neuropeptide Y functions as a facilitator of GDNF-induced budding of the Wolffian duct Choi, Y., Tee, J. B., Gallegos, T. F., Shah, M. M., Oishi, H., Sakurai, H., Kitamura, S., Wu, W., Bush, K. T. and Nigam, S. K.

DEVELOPMENT AND DISEASE

4225 Indirect modulation of Shh signaling by DIx5 affects the oral-nasal patterning of palate and rescues cleft palate in Msx1-null mice Han, J., Mayo, J., Xu, X., Li, J., Bringas, P., Jr, Maas, R. L., Rubenstein, J. L. R. and Chai, Y.