



Cover: A three-dimensional reconstruction of an embryonic day 10.5 mouse from the front using microcomputed tomographic imaging. Images were acquired using a Bruker SKYSCAN 1272 at 3 $\mu\text{m}/\text{pixel}$, reconstructed using SkyScan NRecon, and visualised with CTVox and Imaris software. See Research article by Martínez Traverso et al. (dev200860).

DEVELOPMENTAL TWISTS

A Question of Identity

Mogami, T.

dev201171

PERSPECTIVE

Exploring the challenges and opportunities of public engagement with fundamental biology

Clements-Brod, N., Holmes, L. and Rawlins, E. L.

dev201170

INTERVIEWS

The people behind the papers – Masahito Irie, Fumitoshi Ishino and Tomoko Kaneko-Ishino

dev201295

Transitions in development – an interview with Daniel Ríos Barrera

Zenner, H. L.

dev201207

REVIEW

Cerebellum lineage allocation, morphogenesis and repair: impact of interplay amongst cells

Joyner, A. L. and Bayin, N. S.

dev185587

STEM CELLS AND REGENERATION

Coupled myovascular expansion directs cardiac growth and regeneration

DeBenedittis, P., Karpurapu, A., Henry, A., Thomas, M. C., McCord, T. J., Brezitski, K., Prasad, A., Baker, C. E., Kobayashi, Y., Shah, S. H., Kontos, C. D., Tata, P. R., Lumbers, R. T. and Karra, R.

dev200654

RESEARCH REPORTS

Hemocytes are essential for *Drosophila melanogaster* post-embryonic development, independent of control of the microbiota

Stephenson, H. N., Streeck, R., Grüblinger, F., Goosmann, C. and Herzig, A.

dev200286

C. elegans srGAP is an α -catenin M domain-binding protein that strengthens cadherin-dependent adhesion during morphogenesis

Serre, J. M., Lucas, B., Martin, S. C. T., Heier, J. A., Shao, X. and Hardin, J.

dev200775

RESEARCH ARTICLES

Retrovirus-derived *RTL5* and *RTL6* genes are novel constituents of the innate immune system in the eutherian brain

Irie, M., Itoh, J., Matsuzawa, A., Ikawa, M., Kiyonari, H., Kihara, M., Suzuki, T., Hiraoka, Y., Ishino, F. and Kaneko-Ishino, T.

dev200976

Pivotal role of STIP in ovule pattern formation and female germline development in *Arabidopsis thaliana*

Petrella, R., Gabrieli, F., Cavalleri, A., Schneitz, K., Colombo, L. and Cucinotta, M.

dev201184

Cell lineage specification and signalling pathway use during development of the lateral plate mesoderm and forelimb mesenchyme

Newton, A. H., Williams, S. M., Major, A. T. and Smith, C. A.

dev200702

LATS1/2 control TGF β -directed epithelial-to-mesenchymal transition in the murine dorsal cranial neuroepithelium through YAP regulation

Martínez Traverso, I. M., Steimle, J. D., Zhao, X., Wang, J. and Martin, J. F.

dev200860

Trim33 conditions the lifespan of primitive macrophages and onset of definitive macrophage production

Demy, D. L., Touret, A.-L., Lancino, M., Tauzin, M., Capuana, L., Pierre, C. and Herbomel, P.

dev200835

PBAF chromatin remodeler complexes that mediate meiotic transitions in mouse

de Castro, R. O., Previato de Almeida, L., Carbajal, A., Gryniuk, I. and Pezza, R. J.

dev199967

Paternally inherited H3K27me3 affects chromatin accessibility in mouse embryos produced by round spermatid injection

Sakamoto, M., Ito, D., Inoue, R., Wakayama, S., Kikuchi, Y., Yang, L., Hayashi, E., Emura, R., Shiura, H., Kohda, T., Namekawa, S. H., Ishiuchi, T., Wakayama, T. and Ooga, M.

dev200696

TECHNIQUES AND RESOURCES

The dynamic proteome in *Arabidopsis thaliana* early embryogenesis

Huang, Y., Zhou, L., Hou, C. and Guo, D.

dev200715

Breasi-CRISPR: an efficient genome-editing method to interrogate protein localization and protein–protein interactions in the embryonic mouse cortex

Meyerink, B. L., KC, P., Tiwari, N. K., Kittock, C. M., Klein, A., Evans, C. M. and Pilaz, L.-J.

dev200616

A scalable phenotyping approach for female floral organ development and senescence in the absence of pollination in wheat

Millan-Blanco, M., Hartley, M., Bird, N., Manes, Y., Uauy, C. and Boden, S. A.

dev200889