



Cover: Hyaloid vessels from a one-day-old mouse pup labelled with isolectin B4 (red), which stains endothelial cells and macrophages, phalloidin (green), which stains vessels, and the nuclear dye Hoechst (blue). See Research article by Nayak et al. (dev154898).

EDITORIAL

Advocating developmental biology

Maartens, A., Prokop, A., Brown, K. and Pourquié, O.
dev167932

SPOTLIGHT

What does time mean in development?

Ebisuya, M. and Briscoe, J.
dev164368

PRIMER

Wnt signalling: conquering complexity

Wiese, K. E., Nusse, R. and van Amerongen, R.
dev165902

STEM CELLS AND REGENERATION

Oct4 regulates the embryonic axis and coordinates exit from pluripotency and germ layer specification in the mouse embryo

Mulas, C., Chia, G., Jones, K. A., Hodgson, A. C., Stirparo, G. G. and Nichols, J.
dev159103

RESEARCH REPORT

Nppa and Nppb act redundantly during zebrafish cardiac development to confine AVC marker expression and reduce cardiac jelly volume

Grassini, D. R., Lagendijk, A. K., De Angelis, J. E., Da Silva, J., Jeanes, A., Zettler, N., Bower, N. I., Hogan, B. M. and Smith, K. A.
dev160739

RESEARCH ARTICLES

Fox proteins are modular competency factors for facial cartilage and tooth specification

Xu, P., Balczerski, B., Ciozda, A., Louie, K., Oralova, V., Huysseune, A. and Crump, J. G.
dev165498

A non-autonomous function of the core PCP protein VANGL2 directs peripheral axon turning in the developing cochlea

Ghimire, S. R., Ratzan, E. M. and Deans, M. R.
dev159012

Developmental vascular regression is regulated by a Wnt/ β -catenin, MYC and CDKN1A pathway that controls cell proliferation and cell death

Nayak, G., Odaka, Y., Prasad, V., Solano, A. F., Yeo, E.-J., Vemaraju, S., Molkentin, J. D., Trumpp, A., Williams, B., Rao, S. and Lang, R. A.
dev154898

Yif1 associates with Yip1 on Golgi and regulates dendrite pruning in sensory neurons during *Drosophila* metamorphosis

Wang, Q., Wang, Y. and Yu, F.
dev164475

Simulation of melanoblast displacements reveals new features of developmental migration

Laurent-Gengoux, P., Petit, V., Aktary, Z., Gallagher, S., Tweedy, L., Machesky, L. and Larue, L.
dev160200

miR-133-mediated regulation of the Hedgehog pathway orchestrates embryo myogenesis

Mok, G. F., Lozano-Velasco, E., Maniou, E., Viaut, C., Moxon, S., Wheeler, G. and Münsterberg, A.
dev159657

Retinoic acid-induced expression of *Hnf1b* and *Fzd4* is required for pancreas development in *Xenopus laevis*

Gere-Becker, M. B., Pommerenke, C., Lingner, T. and Pieler, T.
dev161372

TECHNIQUES AND RESOURCES

Third-generation *in situ* hybridization chain reaction: multiplexed, quantitative, sensitive, versatile, robust

Choi, H. M. T., Schwarzkopf, M., Fornace, M. E., Acharya, A., Artavanis, G., Stegmaier, J., Cunha, A. and Pierce, N. A.
dev165753

A targeted 3D EM and correlative microscopy method using SEM array tomography

Burel, A., Lavault, M.-T., Chevalier, C., Gnaegi, H., Prigent, S., Mucciolo, A., Dutertre, S., Humbel, B. M., Guillaudeux, T. and Kolotuev, I.
dev160879