



Cover: Confocal stack image of zebrafish brain vessels at 4 days post fertilization. GFP (yellow) driven by the *abcc9*-promoter selectively labels mural cells, which cover endothelial cells (blue) with extending processes longitudinally along capillaries. See Research article by Ando et al. (dev165589).

INTERVIEW

The people behind the papers – Masanori Kawaguchi, Kota Sugiyama and Yoshiyuki Seki
dev175851

SPOTLIGHT

Improving the visibility of developmental biology: time for induction and specification
Zon, L.
dev174631

PRIMER

JAK/STAT signaling in stem cells and regeneration: from *Drosophila* to vertebrates
Herrera, S. C. and Bach, E. A.
dev167643

HUMAN DEVELOPMENT

An integrated transcriptional analysis of the developing human retina

Mellough, C. B., Bauer, R., Collin, J., Dorgau, B., Zerti, D., Dolan, D. W. P., Jones, C. M., Izuogu, O. G., Yu, M., Hallam, D., Steyn, J. S., White, K., Steel, D. H., Santibanez-Koref, M., Elliott, D. J., Jackson, M. S., Lindsay, S., Grellscheid, S. and Lako, M.
dev169474

Glycogen synthase kinase 3 induces multilineage maturation of human pluripotent stem cell-derived lung progenitors in 3D culture

de Carvalho, A. L. R. T., Strikoudis, A., Liu, H.-Y., Chen, Y.-W., Dantas, T. J., Vallee, R. B., Correia-Pinto, J. and Snoeck, H.-W.
dev171652

STEM CELLS AND REGENERATION

Co-option of the PRDM14-CBFA2T complex from motor neurons to pluripotent cells during vertebrate evolution

Kawaguchi, M., Sugiyama, K., Matsubara, K., Lin, C.-Y., Kuraku, S., Hashimoto, S., Suwa, Y., Yong, L. W., Takino, K., Higashida, S., Kawamura, D., Yu, J.-K. and Seki, Y.
dev168633

RESEARCH ARTICLES

Transcriptional control of morphological properties of direction-selective T4/T5 neurons in *Drosophila*
Schilling, T., Ali, A. H., Leonhardt, A., Borst, A. and Pujol-Martí, J.
dev169763

Peri-arterial specification of vascular mural cells from naïve mesenchyme requires Notch signaling

Ando, K., Wang, W., Peng, D., Chiba, A., Legendijk, A. K., Barske, L., Crump, J. G., Stainier, D. Y. R., Lendahl, U., Koltowska, K., Hogan, B. M., Fukuhara, S., Mochizuki, N. and Betsholtz, C.
dev165589

CDK5RAP3, a UFL1 substrate adaptor, is crucial for liver development

Yang, R., Wang, H., Kang, B., Chen, B., Shi, Y., Yang, S., Sun, L., Liu, Y., Xiao, W., Zhang, T., Yang, J., Zhang, Y., Zhu, M., Xu, P., Chang, Y., Jia, Y. and Huang, Y.
dev169235

The intestinal intermediate filament network responds to and protects against microbial insults and toxins

Geisler, F., Coch, R. A., Richardson, C., Goldberg, M., Denecke, B., Bossinger, O. and Leube, R. E.
dev169482

Region-specific endodermal signals direct neural crest cells to form the three middle ear ossicles

Ankamreddy, H., Min, H., Kim, J. Y., Yang, X., Cho, E.-S., Kim, U.-K. and Bok, J.
dev167965

IMP regulates Kuzbanian to control the timing of Notch signalling in *Drosophila* follicle cells

Fic, W., Faria, C. and St Johnston, D.
dev168963

Distinct roles and requirements for Ras pathway signaling in visceral versus somatic muscle founder specification

Zhou, Y., Popadowski, S. E., Deustchman, E. and Halfon, M. S.
dev169003

Wnt produced by stretched roof-plate cells is required for the promotion of cell proliferation around the central canal of the spinal cord

Shinozuka, T., Takada, R., Yoshida, S., Yonemura, S. and Takada, S.
dev159343

Hippo signaling promotes lung epithelial lineage commitment by curbing Fgf10 and β -catenin signaling

Volckaert, T., Yuan, T., Yuan, J., Boateng, E., Hopkins, S., Zhang, J.-S., Thannickal, V. J., Fässler, R. and De Langhe, S. P.
dev166454

Characterization of *Drosophila Nidogen/entactin* reveals roles in basement membrane stability, barrier function and nervous system patterning

Wolfstetter, G., Dahlitz, I., Pfeifer, K., Töpfer, U., Alt, J. A., Pfeifer, D. C., Lakes-Harlan, R., Baumgartner, S., Palmer, R. H. and Holz, A.

dev168948

TECHNIQUES AND RESOURCES

A chemical-genetics approach to study the role of atypical Protein Kinase C in *Drosophila*

Hannaford, M., Loyer, N., Tonelli, F., Zoltner, M. and Januschke, J.

dev170589

CORRECTION

Correction: Neuromesodermal progenitors are a conserved source of spinal cord with divergent growth dynamics

(doi: 10.1242/dev.166728)

Attardi, A., Fulton, T., Florescu, M., Shah, G., Muresan, L., Lenz, M. O., Lancaster, C., Huisken, J., van Oudenaarden, A. and Steventon, B.

dev175620