



Cover: Live imaging in a zebrafish embryo at 50 h post-fertilization of the two cellular components of the caudal hematopoietic niche: the stromal cells (green; expression of GFP) and the endothelial cells of the venous plexus (magenta; expression of farnesylated mCherry). See Research article by Touret et al. (dev200278).

PERSPECTIVE

In preprints: new insights into proximodistal limb patterning and differentiation

McCusker, C. and Rosello-Diez, A.

dev201308

OBITUARY

Jeffrey G. Williams (1948-2022): a pioneer molecular biologist in development

Kay, R. R. and Weijer, C. J.

dev201254

INTERVIEW

An interview with Tyler Huycke

Routledge, D.

dev201267

REVIEW

The emerging significance of splicing in vertebrate development

Olthof, A. M., White, A. K. and Kanadia, R. N.

dev200373

HUMAN DEVELOPMENT

Dysregulation of integrin $\alpha\beta 3$ and $\alpha 5\beta 1$ impedes migration of placental endothelial cells in fetal growth restriction

Gumina, D. L., Ji, S., Flockton, A., McPeak, K., Stich, D., Moldovan, R. and Su, E. J.

dev200717

Young transposable elements rewired gene regulatory networks in human and chimpanzee hippocampal intermediate progenitors

Patoori, S., Barnada, S. M., Large, C., Murray, J. I. and Trizzino, M.

dev200413

RESEARCH REPORT

The ETS transcription factor Spi2 regulates hematopoietic cell development in zebrafish

Zhao, S., Zhang, A., Zhu, H. and Wen, Z.

dev200881

RESEARCH ARTICLES

The single *Marchantia polymorpha* *FERONIA* homolog reveals an ancestral role in regulating cellular expansion and integrity

Mecchia, M. A., Rövekamp, M., Giraldo-Fonseca, A., Meier, D., Gadient, P., Vogler, H., Limacher, D., Bowman, J. L. and Grossniklaus, U.

dev200580

Plap-1 lineage tracing and single-cell transcriptomics reveal cellular dynamics in the periodontal ligament

Iwayama, T., Iwashita, M., Miyashita, K., Sakashita, H., Matsumoto, S., Tomita, K., Bhongsatiern, P., Kitayama, T., Ikegami, K., Shimbo, T., Tamai, K., Murayama, M. A., Ogawa, S., Iwakura, Y., Yamada, S., Olson, L. E., Takedachi, M. and Murakami, S.

dev201203

Loss of function of the maternal membrane oestrogen receptor ER α alters expansion of trophoblast cells and impacts mouse fertility

Rusidzé, M., Faure, M. C., Sicard, P., Raymond-Letron, I., Giton, F., Vessières, E., Prevot, V., Henrion, D., Arnal, J.-F., Cornil, C. A. and Lenfant, F.

dev200683

A tumor-suppressive function for Notch3 in the parous mammary gland

Chung, W.-C., Egan, S. E. and Xu, K.

dev200913

Sea anemone Frizzled receptors play partially redundant roles in oral-aboral axis patterning

Niedermoser, I., Lebedeva, T. and Genikhovich, G.

dev200785

The RNA ligase RNA terminal phosphate cyclase B regulates mRNA alternative splicing and is required for mouse oocyte development and maintenance

Zhang, H., Jiang, J.-C., Wu, Y.-W., Yu, Y.-S., Wang, H.-N., Ding, N.-Z. and Fan, H.-Y.

dev200497

Regulation of Archease by the mTOR-vATPase axis

Francis, D., Burguete, A. S. and Ghabrial, A. S.

dev200908

Omics profiling identifies the regulatory functions of the MAPK/ERK pathway in nephron progenitor metabolism

Kwon, H. N., Kurtzeborn, K., Iaroshenko, V., Jin, X., Loh, A., Escande-Beillard, N., Reversade, B., Park, S. and Kuure, S.

dev200986

Sequential and additive expression of miR-9 precursors control timing of neurogenesis

Soto, X., Burton, J., Manning, C. S., Minchington, T., Lea, R., Lee, J., Kursawe, J., Rattray, M. and Papalopulu, N.

dev200474

Formation and function of a highly specialised type of organelle in cardiac valve cells

Meyer, C., Breitsprecher, L., Bataille, L., Vincent, A. J. M., Drechsler, M., Meyer, H. and Paululat, A.

dev200701

A dual involvement of Protocadherin 18a in stromal cell development guides the formation of a functional hematopoietic niche

Touret, A.-L., Vivier, C., Schmidt, A., Herbomel, P. and Murayama, E.

dev200278

Interactive CLV3, CLE16 and CLE17 signaling mediates stem cell homeostasis in the *Arabidopsis* shoot apical meristem

Dao, T. Q., Weksler, N., Liu, H. M.-H., Leiboff, S. and Fletcher, J. C.

dev200787