



Cover: *Xenopus* neural crest labelled fluorescently with FLDx. Embryos are shown before migration (top) and after migration at two different stages (middle and bottom). Using this analysis, non-canonical Wnt signalling in neural crest migration can be studied. See article by De Calisto et al. on p. 2587.

Review

Stemple, D. L.

Structure and function of the notochord: an essential organ for chordate development 2503-2512

Research articles

Rodriguez, T. A., Srinivas, S., Clements, M. P., Smith, J. C. and Beddington, R. S. P.

Induction and migration of the anterior visceral endoderm is regulated by the extra-embryonic ectoderm 2513-2520

Jung, S.-H., Evans, C. J., Uemura, C. and Banerjee, U.

The *Drosophila* lymph gland as a developmental model of hematopoiesis 2521-2533

Nishioka, N., Nagano, S., Nakayama, R., Kiyonari, H., Ijiri, T., Taniguchi, K., Shawlot, W., Hayashizaki, Y., Westphal, H., Behringer, R. R., Matsuda, Y., Sakoda, S., Kondoh, H. and Sasaki, H.

Ssdp1 regulates head morphogenesis of mouse embryos by activating the Lim1-Ldb1 complex 2535-2546

Takahashi, M., Takahashi, F., Ui-Tei, K., Kojima, T. and Saigo, K.

Requirements of genetic interactions between *Src42A*, *armadillo* and *shotgun*, a gene encoding E-cadherin, for normal development in *Drosophila* 2547-2559

Muzzopappa, M. and Wappner, P.

Multiple roles of the F-box protein Slimb in *Drosophila* egg chamber development 2561-2571

Kay, J. N., Link, B. A. and Baier, H.

Staggered cell-intrinsic timing of *ath5* expression underlies the wave of ganglion cell neurogenesis in the zebrafish retina 2573-2585

De Calisto, J., Araya, C., Marchant, L., Riaz, C. F. and Mayor, R.

Essential role of non-canonical Wnt signalling in neural crest migration 2587-2597

Lickert, H., Cox, B., Wehrle, C., Taketo, M. M., Kemler, R. and Rossant, J.

Dissecting Wnt/ β -catenin signaling during gastrulation using RNA interference in mouse embryos 2599-2609

Sirbu, I. O., Gresh, L., Barra, J. and Duester, G.

Shifting boundaries of retinoic acid activity control hindbrain segmental gene expression 2611-2622

Hjerling-Leffler, J., Marmigère, F., Heglind, M., Cederberg, A., Koltzenburg, M., Enerbäck, S. and Ernfors, P.

The boundary cap: a source of neural crest stem cells that generate multiple sensory neuron subtypes 2623-2632

Bouchard, M., Grote, D., Craven, S. E., Sun, Q., Steinlein, P. and Busslinger, M.

Identification of Pax2-regulated genes by expression profiling of the mid-hindbrain organizer region 2633-2643

Serpe, M., Ralston, A., Blair, S. S. and O'Connor, M. B.

Matching catalytic activity to developmental function: Tolloid-related processes Sog in order to help specify the posterior crossvein in the *Drosophila* wing 2645-2656

Research articles: Development and disease

Brachvogel, B., Moch, H., Pausch, F., Schlötzer-Schrehardt, U., Hofmann, C., Hallmann, R., von der Mark, K., Winkler, T. and Pöschl, E.

Perivascular cells expressing annexin A5 define a novel mesenchymal stem cell-like population with the capacity to differentiate into multiple mesenchymal lineages 2657-2668

Phan, D., Rasmussen, T. L., Nakagawa, O., McAnally, J., Gottlieb, P. D., Tucker, P. W., Richardson, J. A., Bassel-Duby, R. and Olson, E. N.

BOP, a regulator of right ventricular heart development, is a direct transcriptional target of MEF2C in the developing heart 2669-2678