



Cover: Neurosphere cells derived from tenascin C null mice differentiate into astrocytes and neurones, as shown by GFAP staining (red) and β III-tubulin staining (green), respectively. Cell nuclei are stained with DAPI (blue). See article by Garcion et al. on p. 3423.

Editorial

Jim Smith

Judith Eisen joins the *Development* editorial team 3237

Research articles

Hou, L., Pavan, W. J., Shin, M. K. and Arnheiter, H.
Cell-autonomous and cell non-autonomous signaling through endothelin receptor B during melanocyte development 3239-3247

Grimaldi, A., Tettamanti, G., Martin, B. L., Gaffield, W., Pownall, M. E. and Hughes, S. M.
Hedgehog regulation of superficial slow muscle fibres in *Xenopus* and the evolution of tetrapod trunk myogenesis 3249-3262

Mootz, D., Ho, D. M. and Hunter, C. P.
The STAR/Maxi-KH domain protein GLD-1 mediates a developmental switch in the translational control of *C. elegans* PAL-1 3263-3272

Morel, V. and Martinez Arias, A.
Armadillo/ β -catenin-dependent Wnt signalling is required for the polarisation of epidermal cells during dorsal closure in *Drosophila* 3273-3283

Takahashi, T. and Holland, P. W. H.
Amphioxus and ascidian Dmbx homeobox genes give clues to the vertebrate origins of midbrain development 3285-3294

Lee, S.-K., Jurata, L. W., Funahashi, J., Ruiz, E. C. and Pfaff, S. L.
Analysis of embryonic motoneuron gene regulation: derepression of general activators function in concert with enhancer factors 3295-3306

Kurokawa, D., Takasaki, N., Kiyonari, H., Nakayama, R., Kimura-Yoshida, C., Matsuo, I. and Aizawa, S.
Regulation of *Otx2* expression and its functions in mouse epiblast and anterior neuroectoderm 3307-3317

Kurokawa, D., Kiyonari, H., Nakayama, R., Kimura-Yoshida, C., Matsuo, I. and Aizawa, S.
Regulation of *Otx2* expression and its functions in mouse forebrain and midbrain 3319-3331

Mandler, M. and Neubüser, A.
FGF signaling is required for initiation of feather placode development 3333-3343

Chi, L., Zhang, S., Lin, Y., Prunskaitė-Hyyryläinen, R., Vuolteenaho, R., Itäranta, P. and Vainio, S.
Sprouty proteins regulate ureteric branching by coordinating reciprocal epithelial *Wnt11*, mesenchymal *Gdnf* and stromal *Fgf7* signalling during kidney development 3345-3356

Achard, P., Herr, A., Baulcombe, D. C. and Harberd, N. P.
Modulation of floral development by a gibberellin-regulated microRNA 3357-3365

Chan, W. Y., Cheung, C. S., Yung, K. M. and Copp, A. J.
Cardiac neural crest of the mouse embryo: axial level of origin, migratory pathway and cell autonomy of the splotch (*Sp^{2H}*) mutant effect 3367-3379

Bertocchini, F., Skromne, I., Wolpert, L. and Stern, C. D.
Determination of embryonic polarity in a regulative system: evidence for endogenous inhibitors acting sequentially during primitive streak formation in the chick embryo 3381-3390

Aerne, B. and Ish-Horowicz, D.
receptor tyrosine phosphatase ψ is required for Delta/Notch signalling and cyclic gene expression in the presomitic mesoderm 3391-3399

Michos, O., Panman, L., Vintersten, K., Beier, K., Zeller, R. and Zuniga, A.
Gremlin-mediated BMP antagonism induces the epithelial-mesenchymal feedback signaling controlling metanephric kidney and limb organogenesis 3401-3410

Baker, J. D., Adhikarakunnathu, S. and Kernan, M. J.
Mechanosensory-defective, male-sterile *unc* mutants identify a novel basal body protein required for ciliogenesis in *Drosophila* 3411-3422

Garcion, E., Halilagic, A., Faissner, A. and ffrench-Constant, C.
Generation of an environmental niche for neural stem cell development by the extracellular matrix molecule tenascin C 3423-3432

Campos, L. S., Leone, D. P., Relvas, J. B., Brakebusch, C., Fässler, R., Suter, U. and ffrench-Constant, C.
 β 1 integrins activate a MAPK signalling pathway in neural stem cells that contributes to their maintenance 3433-3444

Scarpella, E., Francis, P. and Berleth, T.
Stage-specific markers define early steps of procambium development in *Arabidopsis* leaves and correlate termination of vein formation with mesophyll differentiation 3445-3455

Research articles: Development and disease

Cano, D. A., Murcia, N. S., Pazour, G. J. and Hebrok, M.
orpk mouse model of polycystic kidney disease reveals essential role of primary cilia in pancreatic tissue organization 3457-3467

Bagheri-Yarmand, R., Talukder, A. H., Wang, R.-A., Vadlamudi, R. K. and Kumar, R.
Metastasis-associated protein 1 deregulation causes inappropriate mammary gland development and tumorigenesis 3469-3479

Kaartinen, V., Dudas, M., Nagy, A., Sridurongrit, S., Lu, M. M. and Epstein, J. A.
Cardiac outflow tract defects in mice lacking ALK2 in neural crest cells 3481-3490