



Cover: Composite images of P0 mouse kidneys immunostained for GFP (lineage tracer; green), *Lotus* lectin (proximal tubules; blue), Krt18 (collecting ducts; purple) and Notch2 (red; except for top-left image, in which Slc12a3 is in red). Top: two control kidneys. Bottom: one kidney (mirrored) in which Notch2 was removed from nephron progenitors. Images not to scale. See Research article by Duvall et al. (dev200446).

DEVELOPMENTAL TWISTS

Sorgvliet
Mogami, T.
dev200847

SPOTLIGHT

Single-cell RNA-sequencing of mammalian brain development: insights and future directions
Vinsland, E. and Linnarsson, S.
dev200180

REVIEW

Focal adhesion-mediated cell anchoring and migration: from *in vitro* to *in vivo*
Yamaguchi, N. and Knaut, H.
dev200647

STEM CELLS AND REGENERATION

DNA methylation safeguards the generation of hematopoietic stem and progenitor cells by repression of Notch signaling
Li, Y., Tang, C., Liu, F., Zhu, C., Liu, F., Zhu, P. and Wang, L.
dev200390

Aldh2 is a lineage-specific metabolic gatekeeper in melanocyte stem cells
Brunsdon, H., Brombin, A., Peterson, S., Postlethwait, J. H. and Patton, E. E.
dev200277

RESEARCH REPORTS

Identification of fibroblast progenitors in the developing mouse thymus
Ferreirinha, P., Pinheiro, R. G. R., Landry, J. J. M. and Alves, N. L.
dev200513

Distinct contributions of ECM proteins to basement membrane mechanical properties in *Drosophila*
Töpfer, U., Guerra Santillán, K. Y., Fischer-Friedrich, E. and Dahmann, C.
dev200456

RESEARCH ARTICLES

Presenilin enhancer 2 is crucial for the transition of apical progenitors into neurons but into not basal progenitors in the developing hippocampus
Xia, Y., Zhang, Y., Xu, M., Zou, X., Gao, J., Ji, M.-H. and Chen, G.
dev200272

Sperm-specific glycogen synthase kinase 3 is required for sperm motility and the post-fertilization signal for female meiosis II in *Caenorhabditis elegans*
Banerjee, R. P. and Srayko, M.
dev200229

PPP4C facilitates homologous recombination DNA repair by dephosphorylating PLK1 during early embryo development
Dong, M.-Z., Ouyang, Y.-C., Gao, S.-C., Ma, X.-S., Hou, Y., Schatten, H., Wang, Z.-B. and Sun, Q.-Y.
dev200351

A unique form of collective epithelial migration is crucial for tissue fusion in the secondary palate and can overcome loss of epithelial apoptosis
Teng, T., Teng, C. S., Kaartinen, V. and Bush, J. O.
dev200181

Systematic expression profiling of Dpr and DIP genes reveals cell surface codes in *Drosophila* larval motor and sensory neurons
Wang, Y., Lobb-Rabe, M., Ashley, J., Chatterjee, P., Anand, V., Bellen, H. J., Kanca, O. and Carrillo, R. A.
dev200355

The *Drosophila* fragile X mental retardation protein modulates the neuronal cytoskeleton to limit dendritic arborization
Li, H. and Gavis, E. R.
dev200379

The genetic basis of natural variation in the timing of vegetative phase change in *Arabidopsis thaliana*
Doody, E., Zha, Y., He, J. and Poethig, R. S.
dev200321

Revisiting the role of Notch in nephron segmentation confirms a role for proximal fate selection during mouse and human nephrogenesis
Duvall, K., Crist, L., Perl, A. J., Poda Shakked, N., Chaturvedi, P. and Kopan, R.
dev200446

Phytochrome-interacting factors orchestrate hypocotyl adventitious root initiation in *Arabidopsis*
Li, Q.-Q., Zhang, Z., Zhang, C.-X., Wang, Y.-L., Liu, C.-B., Wu, J.-C., Han, M.-L., Wang, Q.-X. and Chao, D.-Y.
dev200362

'Neighbourhood watch' model: embryonic epiblast cells assess positional information in relation to their neighbours
Lee, H. C., Hastings, C., Oliveira, N. M. M., Pérez-Carrasco, R., Page, K. M., Wolpert, L. and Stern, C. D.
dev200295

Lmo7 recruits myosin II heavy chain to regulate actomyosin contractility and apical domain size in *Xenopus* ectoderm
Matsuda, M., Chu, C.-W. and Sokol, S. Y.
dev200236

Functions of the FGF signalling pathway in cephalochordates provide insight into the evolution of the prechordal plate
Meister, L., Escrava, H. and Bertrand, S.
dev200252

CORRECTION

Correction: Wt1 transcription factor impairs cardiomyocyte specification and drives a phenotypic switch from myocardium to epicardium

Marques, I. J., Ernst, A., Arora, P., Vianin, A., Hetke, T., Sanz-Morejón, A., Naumann, U., Odriozola, A., Langa, X., Andrés-Delgado, L., Zuber, B., Torroja, C., Osterwalder, M., Simões, F. C., Englert, C. and Mercader, N.

dev200936