



**Cover:** Knocking out a single gene in *Lymnaea stagnalis* reverses snail coiling. Image shows the wild-type dextral snail (right) and a CRISPR-created sinistral snail (left), which is the 5th generation from an *Lsdia1* knockout embryo, 8-F5 (ins1/ins1), in an otherwise totally dextral genetic background. Image courtesy of Dr Hiromi Takahashi of the Kuroda laboratory. See research article by Abe and Kuroda (dev175976).

## OBITUARY

Sydney Brenner: a master of science and of wit  
**Lawrence, P. A.**  
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## INTERVIEWS

The people behind the papers – Masanori Abe and Reiko Kuroda  
dev179713

The people behind the papers – Heidi Connahs, Sham Tlili, Timothy Saunders and Antónia Monteiro  
dev179366

## MEETING REVIEW

Repair, regenerate and reconstruct: meeting the state-of-the-art  
**Reuter, H., Vogg, M. C. and Serras, F.**  
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## PRIMER

The cytoneme connection: direct long-distance signal transfer during development  
**González-Méndez, L., Gradilla, A.-C. and Guerrero, I.**  
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## REVIEW

The origins and non-canonical functions of macrophages in development and regeneration  
**Theret, M., Mounier, R. and Rossi, F.**  
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## STEM CELLS AND REGENERATION

Rapid clearance of cellular debris by microglia limits secondary neuronal cell death after brain injury *in vivo*  
**Herzog, C., Pons Garcia, L., Keatinge, M., Greenald, D., Moritz, C., Peri, F. and Herrgen, L.**  
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The ciliary GTPase Arl3 maintains tissue architecture by directing planar spindle orientation during epidermal morphogenesis  
**Bhattacharai, S. R., Begum, S., Popow, R. and Ezratty, E. J.**  
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The Shh receptor Boc is important for myelin formation and repair  
**Zakaria, M., Ferent, J., Hristovska, I., Laouarem, Y., Zahaf, A., Kassoussi, A., Mayeur, M.-E., Pascual, O., Charron, F. and Traiffort, E.**  
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## RESEARCH REPORT

The development of CRISPR for a mollusc establishes the form *Lsdia1* as the long-sought gene for snail dextral/sinistral coiling  
**Abe, M. and Kuroda, R.**  
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## RESEARCH ARTICLES

A dual function of FGF signaling in *Xenopus* left-right axis formation  
**Schneider, I., Kreis, J., Schweickert, A., Blum, M. and Vick, P.**  
dev173575

Activation of butterfly eyespots by Distal-less is consistent with a reaction-diffusion process  
**Connahs, H., Tlili, S., van Creijl, J., Loo, T. Y. J., Banerjee, T. D., Saunders, T. E. and Monteiro, A.**  
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Novel roles for GATAe in growth, maintenance and proliferation of cell populations in the *Drosophila* renal tubule  
**Martínez-Corrales, G., Cabrero, P., Dow, J. A. T., Terhzaz, S. and Davies, S.-A.**  
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Myocardial differentiation is dependent upon endocardial signaling during early cardiogenesis *in vitro*  
**Saint-Jean, L., Barkas, N., Harmelink, C., Tompkins, K. L., Oakey, R. J. and Baldwin, H. S.**  
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The transmembrane protein Crb2a regulates cardiomyocyte apicobasal polarity and adhesion in zebrafish  
**Jiménez-Amilburu, V. and Stainier, D. Y. R.**  
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Yap and its subcellular localization have distinct compartment-specific roles in the developing lung  
**van Soldt, B. J., Qian, J., Li, J., Tang, N., Lu, J. and Cardoso, W. V.**  
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A Cut/cohesin axis alters the chromatin landscape to facilitate neuroblast death  
**Arya, R., Gyonjyan, S., Harding, K., Sarkissian, T., Li, Y., Zhou, L. and White, K.**  
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Paxillin-dependent regulation of apical-basal polarity in mammary gland morphogenesis  
**Xu, W., Gulvady, A. C., Goreczny, G. J., Olson, E. C. and Turner, C. E.**  
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