



**Cover:** Scanning electron micrograph of the junction of the internal and external jugular vein with the superior vena cava in an E16.5 mouse embryo. Venous valves that guard the jugular veins are highlighted in green. Lymphovenous valves that prevent back flow of venous blood into lymphatic sacs are highlighted in magenta. Development of both types of valve is blocked in embryos that lack the RASA1 Ras-GTPase-activating protein, VEGF-C signalling and the transcription co-factors YAP and TAZ. See Research articles by Chen et al. (dev192351) and Cha et al. (dev195453).

## INTERVIEW

An interview with Claude Desplan  
**Brown, K.**  
dev197889

## SPOTLIGHT

Towards understanding the origin of animal development  
**Ruiz-Trillo, I. and de Mendoza, A.**  
dev192575

## HYPOTHESIS

Neuronal differentiation strategies: insights from single-cell sequencing and machine learning  
**Konstantinides, N. and Desplan, C.**  
dev193631

## REVIEWS

Nuclear pore complexes in development and tissue homeostasis  
**Guglielmi, V., Sakuma, S. and D'Angelo, M. A.**  
dev183442

Retinal ganglion cell interactions shape the developing mammalian visual system  
**D'Souza, S. and Lang, R. A.**  
dev196535

## HUMAN DEVELOPMENT

Epithelial dynamics shed light on the mechanisms underlying ear canal defects  
**Fons, J. M., Mozaffari, M., Malik, D., Marshall, A. R., Connor, S., Greene, N. D. E. and Tucker, A. S.**  
dev194654

E2A regulates neural ectoderm fate specification in human embryonic stem cells  
**Yi, S., Huang, X., Zhou, S., Zhou, Y., Anderson, M. K., Zúñiga-Pflücker, J. C., Luan, Q. and Li, Y.**  
dev190298

## STEM CELLS AND REGENERATION

H4K20me3 methyltransferase SUV420H2 shapes the chromatin landscape of pluripotent embryonic stem cells  
**Kurup, J. T., Han, Z., Jin, W. and Kidder, B. L.**  
dev188516

## RESEARCH REPORTS

CNS macrophages differentially rely on an intronic *Csf1r* enhancer for their development  
**Munro, D. A. D., Bradford, B. M., Mariani, S. A., Hampton, D. W., Vink, C. S., Chandran, S., Hume, D. A., Pridans, C. and Priller, J.**  
dev194449

Increased lateral tension is sufficient for epithelial folding in *Drosophila*  
**Sui, L. and Dahmann, C.**  
dev194316

## RESEARCH ARTICLES

The hedgehog co-receptor BOC differentially regulates SHH signaling during craniofacial development  
**Echevarría-Andino, M. L. and Allen, B. L.**  
dev189076

Kctd15 regulates nephron segment development by repressing Tfap2a activity  
**Chambers, B. E., Clark, E. G., Gatz, A. E. and Wingert, R. A.**  
dev191973

Recruitment of BAF to the nuclear envelope couples the LINC complex to endoreplication  
**Unnikannan, C. P., Reuveny, A., Grunberg, D. and Volk, T.**  
dev191304

The RNA-dependent DNA methylation pathway is required to restrict *SPOROCTELESS/NOZZLE* expression to specify a single female germ cell precursor in *Arabidopsis*  
**Mendes, M. A., Petrella, R., Cucinotta, M., Vignati, E., Gatti, S., Pinto, S. C., Bird, D. C., Gregis, V., Dickinson, H., Tucker, M. R. and Colombo, L.**  
dev194274

YAP and TAZ maintain PROX1 expression in the developing lymphatic and lymphovenous valves in response to VEGF-C signaling  
**Cha, B., Ho, Y.-C., Geng, X., Mahamud, Md. R., Chen, L., Kim, Y., Choi, D., Kim, T. H., Randolph, G. J., Cao, X., Chen, H. and Srinivasan, R. S.**  
dev195453

Molecular mechanisms underlying simplification of venation patterns in holometabolous insects  
**Banerjee, T. D. and Monteiro, A.**  
dev196394

Thymosin  $\beta$ 4 is essential for adherens junction stability and epidermal planar cell polarity  
**Padmanabhan, K., Grobe, H., Cohen, J., Soffer, A., Mahly, A., Adir, O., Zaidel-Bar, R. and Luxenburg, C.**  
dev193425

RASA1-driven cellular export of collagen IV is required for the development of lymphovenous and venous valves in mice  
**Chen, D., Geng, X., Lapinski, P. E., Davis, M. J., Srinivasan, R. S. and King, P. D.**  
dev192351

## CORRECTION

Correction: The neurodevelopmental disorder risk gene DYRK1A is required for ciliogenesis and control of brain size in *Xenopus* embryos  
**Willsey, H. R., Xu, Y., Everitt, A., Dea, J., Exner, C. R. T., Willsey, A. J., State, M. W. and Harland, R. M.**  
dev198317