



**Cover:** Living embryo of the little skate (*Leucoraja erinacea*) sitting atop its yolk at approximately ten weeks of development. The image was taken using a Zeiss Discovery.V20 stereomicroscope by Mary Colasanto (University of Utah, USA) and Emily Mis (Yale University, USA) at the 2013 Woods Hole MBL embryology course, and was chosen by readers of the Node (<http://thenode.biologists.com>).

## SPOTLIGHT

- 1725 An interview with Juergen Knoblich  
**Vicente, C.**

## MEETING REVIEW

- 1728 Hematopoietic development at high altitude: blood stem cells put to the test  
**Zovein, A. C. and Forsberg, E. C.**

## REVIEW

- 1733 Building the backbone: the development and evolution of vertebral patterning  
**Fleming, A., Kishida, M. G., Kimmel, C. B. and Keynes, R. J.**

## STEM CELLS AND REGENERATION

- 1745 CSR-1 and P granules suppress sperm-specific transcription in the *C. elegans* germline  
**Campbell, A. C. and Updike, D. L.**

- 1756 The regulated elimination of transit-amplifying cells preserves tissue homeostasis during protein starvation in *Drosophila* testis  
**Yang, H. and Yamashita, Y. M.**

- 1767 Glycan4 promotes cardiac specification and differentiation by attenuating canonical Wnt and Bmp signaling  
**Strate, I., Tessadori, F. and Bakkers, J.**

## RESEARCH REPORT

- 1777 Girdin-mediated interactions between cadherin and the actin cytoskeleton are required for epithelial morphogenesis in *Drosophila*  
**Houssin, E., Tepass, U. and Laprise, P.**

## RESEARCH ARTICLES

- 1785 Dynamics of the slowing segmentation clock reveal alternating two-segment periodicity  
**Shih, N. P., François, P., Delaune, E. A. and Amacher, S. L.**

- 1794 A cellular process that includes asymmetric cytokinesis remodels the dorsal tracheal branches in *Drosophila* larvae  
**Denes, A. S., Kanca, O. and Affolter, M.**

- 1806 ATRX contributes to epigenetic asymmetry and silencing of major satellite transcripts in the maternal genome of the mouse embryo  
**De La Fuente, R., Baumann, C. and Viveiros, M. M.**

- 1818 Distinct sets of FGF receptors sculpt excitatory and inhibitory synaptogenesis  
**Dabrowski, A., Terauchi, A., Strong, C. and Umemori, H.**

- 1831 On the development of the patella  
**Eyal, S., Blitz, E., Shwartz, Y., Akiyama, H., Schweitzer, R. and Zelzer, E.**

- 1840 Control of brain patterning by Engrailed paracrine transfer: a new function of the Pbx interaction domain  
**Rampon, C., Gauron, C., Lin, T., Meda, F., Dupont, E., Cosson, A., Ipendey, E., Frerot, A., Aujard, I., Le Saux, T., Bensimon, D., Jullien, L., Volovitch, M., Vriz, S. and Joliot, A.**

- 1850 Neural retina identity is specified by lens-derived BMP signals  
**Pandit, T., Jidigam, V. K., Patthey, C. and Gunhaga, L.**

- 1860 Local homeoprotein diffusion can stabilize boundaries generated by graded positional cues  
**Quiñinao, C., Prochiantz, A. and Touboul, J.**

- 1869 The transmembrane protein Crumbs displays complex dynamics during follicular morphogenesis and is regulated competitively by Moesin and aPKC  
**Sherrard, K. M. and Fehon, R. G.**

## TECHNIQUES AND RESOURCES

- 1879 Live imaging of endogenous protein dynamics in zebrafish using chromobodies  
**Panza, P., Maier, J., Schmees, C., Rothbauer, U. and Söllner, C.**

- 1885 Enhanced selective gene delivery to neural stem cells *in vivo* by an adeno-associated viral variant  
**Kotterman, M. A., Vazin, T. and Schaffer, D. V.**

- 1893 An illustrated anatomical ontology of the developing mouse lower urogenital tract  
**Georgas, K. M., Armstrong, J., Keast, J. R., Larkins, C. E., McHugh, K. M., Southard-Smith, E. M., Cohn, M. J., Batourina, E., Dan, H., Schneider, K., Buehler, D. P., Wiese, C. B., Brennan, J., Davies, J. A., Harding, S. D., Baldock, R. A., Little, M. H., Vezina, C. M. and Mendelsohn, C.**