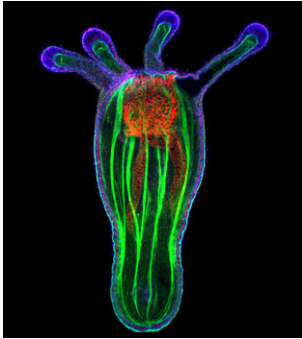


# Development



**Cover:** Confocal projection of a *Nematostella vectensis* primary polyp, stained to visualize tubulin (blue), F-actin (green) and nuclei (red). Thinning of the ectodermal cell layer contributes to elongation of both the tentacles and body column. See Research article by Fritz et al. on p. 2212.

## HYPOTHESIS

- 2061** An intracellular partitioning-based framework for tissue cell polarity in plants and animals  
**Abley, K., Barbier de Reuille, P., Strutt, D., Bangham, A., Prusinkiewicz, P., Marée, A. F. M., Grieneisen, V. and Coen, E.**

## DEVELOPMENT AND STEM CELLS

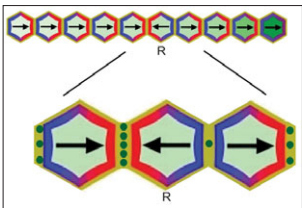
- 2075** Mouse primordial germ cells produce cysts that partially fragment prior to meiosis  
**Lei, L. and Spradling, A. C.**
- 2082** Ephrin B1 maintains apical adhesion of neural progenitors  
**Arvanitis, D. N., Béhar, A., Tryoen-Tóth, P., Bush, J. O., Jungas, T., Vitale, N. and Davy, A.**
- 2093** *C. elegans* GATA factors EGL-18 and ELT-6 function downstream of Wnt signaling to maintain the progenitor fate during larval asymmetric divisions of the seam cells  
**Gorrepati, L., Thompson, K. W. and Eisenmann, D. M.**

## RESEARCH REPORT

- 2103** The micronutrient element zinc modulates sperm activation through the SPE-8 pathway in *Caenorhabditis elegans*  
**Liu, Z., Chen, L., Shang, Y., Huang, P. and Miao, L.**

## RESEARCH ARTICLES

- 2108** ProNGF promotes neurite growth from a subset of NGF-dependent neurons by a p75<sup>NTR</sup>-dependent mechanism  
**Howard, L., Wyatt, S., Nagappan, G. and Davies, A. M.**
- 2118** *Arabidopsis* HD-Zip II transcription factors control apical embryo development and meristem function  
**Turchi, L., Carabelli, M., Ruzza, V., Possenti, M., Sassi, M., Peñalosa, A., Sessa, G., Salvi, S., Forte, V., Morelli, G. and Ruberti, I.**
- 2130** Decoupling the function of Hox and Shh in developing limb reveals multiple inputs of Hox genes on limb growth  
**Sheth, R., Grégoire, D., Dumouchel, A., Scotti, M., My Trang Pham, J., Nemeč, S., Bastida, M. F., Ros, M. A. and Kmita, M.**
- 2139** Bithorax-complex genes sculpt the pattern of leucokinergetic neurons in the *Drosophila* central nervous system  
**Estacio-Gómez, A., Moris-Sanz, M., Schäfer, A.-K., Perea, D., Herrero, P. and Díaz-Benjumea, F. J.**
- 2149** HECT-E3 ligase ETC-1 regulates securin and cyclin B1 cytoplasmic abundance to promote timely anaphase during meiosis in *C. elegans*  
**Wang, R., Kaul, Z., Ambardekar, C., Yamamoto, T. G., Kavdia, K., Kodali, K., High, A. A. and Kitagawa, R.**
- 2160** Organ-specific gene expression: the bHLH protein Sage provides tissue specificity to *Drosophila* FoxA  
**Fox, R. M., Vaishnavi, A., Maruyama, R. and Andrew, D. J.**
- 2172** miR-21 represses Pdc4 during cardiac valvulogenesis  
**Kolpa, H. J., Peal, D. S., Lynch, S. N., Giokas, A. C., Ghatak, S., Misra, S., Norris, R. A., MacRae, C. A., Markwald, R. R., Ellinor, P., Bischoff, J. and Milan, D. J.**



Tissue cell polarity plays a major role in plant and animal development. Coen and colleagues propose that a fundamental building block for tissue cell polarity is the process of intracellular partitioning, which can establish individual cell polarity in the absence of asymmetric cues. See Hypothesis on p. 2061.

- 2181** Klumpfuss controls FMRamide expression by enabling BMP signaling within the NB5-6 lineage  
**Losada-Pérez, M., Gabilondo, H., Molina, I., Turiegano, E., Torroja, L., Thor, S. and Benito-Sipos, J.**
- 2190** A novel role for Pax6 in the segmental organization of the hindbrain  
**Kayam, G., Kohl, A., Magen, Z., Peretz, Y., Weisinger, K., Bar, A., Novikov, O., Brodski, C. and Sela-Donenfeld, D.**
- 2203** Fascin 1 is transiently expressed in mouse melanoblasts during development and promotes migration and proliferation  
**Ma, Y., Li, A., Faller, W. J., Libertini, S., Fiorito, F., Gillespie, D. A., Sansom, O. J., Yamashiro, S. and Machesky, L. M.**
- 2212** Mechanisms of tentacle morphogenesis in the sea anemone *Nematostella vectensis*  
**Fritz, A. E., Ikmi, A., Seidel, C., Paulson, A. and Gibson, M. C.**
- 2224** *WOX4* and *WOX14* act downstream of the PXY receptor kinase to regulate plant vascular proliferation independently of any role in vascular organisation  
**Etchells, J. P., Provost, C. M., Mishra, L. and Turner, S. R.**
- TECHNIQUES AND RESOURCES**
- 2235** An inducible transgene expression system for zebrafish and chick  
**Gerety, S. S., Breau, M. A., Sasai, N., Xu, Q., Briscoe, J. and Wilkinson, D. G.**
- 2245** Corrigendum