



Cover: The starlet sea anemone *Nematostella vectensis* will readily undergo both sexual and asexual reproduction under laboratory conditions. Asexual reproduction occurs by transverse fission (pictured here). The animal experiences a polarity reversal as a new pharynx and tentacle crown form at the aboral pole. Subsequently, this two-headed individual will undergo body wall fission, producing two independent animals. See article by Martindale et al. on p. 2463.

Correspondence

Robert, O., Hutter, H. and Hynes, R. O.

The immunoglobulin superfamily in *Caenorhabditis elegans* and *Drosophila melanogaster*

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Looking at the bigger picture

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Cell cycling through development

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Miner, J. H., Li, C., Mudd, J. L., Go, G. and Sutherland, A. E.

Compositional and structural requirements for laminin and basement membranes during mouse embryo implantation and gastrulation

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Andl, T., Ahn, K., Kairo, A., Chu, E. Y., Wine-Lee, L., Reddy, S. T., Croft, N. J., Cebra-Thomas, J. A., Metzger, D., Chambon, P., Lyons, K. M., Mishina, Y., Seykora, J. T., Crenshaw, E. B., III and Millar, S. E.

Epithelial *Bmp1ra* regulates differentiation and proliferation in postnatal hair follicles and is essential for tooth development

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Regulation of histone H3 lysine 9 methylation in oocytes and early pre-implantation embryos

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Ftz modulates Runt-dependent activation and repression of segment-polarity gene transcription

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An axon scaffold induced by retinal axons directs glia to destinations in the *Drosophila* optic lobe

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Poggi, L., Vottari, T., Barsacchi, G., Wittbrodt, J. and Vignal, R.

The homeobox gene *Xbh1* cooperates with proneural genes to specify ganglion cell fate within the *Xenopus* neural retina

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Pierce, S. B., Yost, C., Britton, J. S., Loo, L. W. M., Flynn, E. M., Edgar, B. A. and Eisenman, R. N.

dMyc is required for larval growth and endoreplication in *Drosophila*

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Martynova, N., Eroshkin, F., Ermakova, G., Bayramov, A., Gray, J., Grainger, R. and Zaraisky, A.

Patterning the forebrain: FoxA4a/Pintallavis and Xvent2 determine the posterior limit of *Xanf1* expression in the neural plate

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Direct interaction with Hoxd proteins reverses Gli3-repressor function to promote digit formation downstream of Shh

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Transcription factors Sox8 and Sox10 perform non-equivalent roles during oligodendrocyte development despite functional redundancy

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Tapanes-Castillo, A. and Baylies, M. K.

Notch signaling patterns *Drosophila* mesodermal segments by regulating the bHLH transcription factor *twist*

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Pocock, R., Ahringer, J., Mitsch, M., Maxwell, S. and Woollard, A.

A regulatory network of T-box genes and the *even-skipped* homologue *vab-7* controls patterning and morphogenesis in *C. elegans*

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Markstein, M., Zinzen, R., Markstein, P., Yee, K.-P., Erives, A., Stathopoulos, A. and Levine, M.

A regulatory code for neurogenic gene expression in the *Drosophila* embryo

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Patched controls the Hedgehog gradient by endocytosis in a dynamin-dependent manner, but this internalization does not play a major role in signal transduction

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Wingless eliminates ommatidia from the edge of the developing eye through activation of apoptosis

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The role of *Mixer* in patterning the early *Xenopus* embryo

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moz regulates Hox expression and pharyngeal segmental identity in zebrafish

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Martindale, M. Q., Pang, K. and Finnerty, J. R.

Investigating the origins of triploblasty: 'mesodermal' gene expression in a diploblastic animal, the sea anemone *Nematostella vectensis* (phylum, Cnidaria; class Anthozoa)

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Research articles: Development and disease

Ng, S.-C., Chen, N., Yip, W.-Y., Liow, S.-L., Tong, G.-Q., Martelli, B., Tan, L. G. and Martelli, P.

The first cell cycle after transfer of somatic cell nuclei in a non-human primate

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Nath, A. K., Enciso, J., Kuniyasu, M., Hao, X.-Y., Madri, J. A. and Pinter, E.

Nitric oxide modulates murine yolk sac vasculogenesis and rescues glucose induced vasculopathy

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Deletion of *Vhlh* in chondrocytes reduces cell proliferation and increases matrix deposition during growth plate development

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