



Cover: Ventral view of a *Drosophila* embryo during the morphogenetic process of head involution reveals a complex network of actomyosin cables that help insulate morphogenetic movements from one another. Labelling is for the cable revealing F-actin via Phalloidin (red), cell junctions via E-Cadherin (blue) and the actomyosin cable component Zasp52 tagged with GFP (green). See Research article by Ashour et al. (dev201238).

EDITORIAL

Development's Inaugural Outstanding Paper Prize

Briscoe, J., Brown, K. and Wilson, S.

dev201810

DEVELOPMENTAL TWISTS

Easter in Milan

Mogami, T.

dev201765

INTERVIEWS

The people behind the papers – Samantha Swift and Michaela Patterson

dev201817

Transitions in development – an interview with Jingli Cao

Routledge, D.

dev201703

HYPOTHESIS

The evolution of gastrulation morphologies

Nájera, G. S. and Weijer, C. J.

dev200885

STEM CELLS AND REGENERATION

MERISTEM-DEFECTIVE regulates the balance between stemness and differentiation in the root meristem through RNA splicing control

Thompson, H. L., Shen, W., Matus, R., Kakkar, M., Jones, C., Dolan, D., Grellscheid, S., Yang, X., Zhang, N., Mozaffari-Jovin, S., Chen, C., Zhang, X., Topping, J. F. and Lindsey, K.

dev201476

A network of Notch-dependent and -independent her genes controls neural stem and progenitor cells in the zebrafish thalamic proliferation zone

Sigloch, C., Spitz, D. and Driever, W.

dev201301

RESEARCH ARTICLES

Cardiomyocyte ploidy is dynamic during postnatal development and varies across genetic backgrounds

Swift, S. K., Purdy, A. L., Kolell, M. E., Andresen, K. G., Lahue, C., Buddell, T., Akins, K. A., Rau, C. D., O'Meara, C. C. and Patterson, M.

dev201318

Temporally and regionally distinct morphogenetic processes govern zebrafish caudal fin blood vessel network expansion

Leonard, E. V., Hasan, S. S. and Siekmann, A. F.

dev201030

Molecular profiling of the vestibular lamina highlights a key role for Hedgehog signalling

Qiu, T., Hutečková, B., Seppala, M., Cobourne, M. T., Chen, Z., Hovořáková, M., Buchtová, M. and Tucker, A. S.

dev201464

An ancient testis-specific IQ motif-containing H gene regulates specific transcript isoform expression during spermatogenesis

Navarrete-López, P., Lombó, M., Maroto, M., Pericuesta, E., Fernández-González, R., Ramos-Ibeas, P., Parra, M. T., Viera, A., Suja, J. Á. and Gutiérrez-Adán, A.

dev201334

TOM-1/tomosyn acts with the UNC-6/netrin receptor UNC-5 to inhibit growth cone protrusion in *Caenorhabditis elegans*

Mahadik, S. S. and Lundquist, E. A.

dev201031

Zasp52 strengthens whole embryo tissue integrity through supracellular actomyosin networks

Ashour, D. J., Durney, C. H., Planelles-Herrero, V. J., Stevens, T. J., Feng, J. J. and Röper, K.

dev201238

TECHNIQUES AND RESOURCES

An end-to-end pipeline based on open source deep learning tools for reliable analysis of complex 3D images of ovaries

Lesage, M., Thomas, M., Péicot, T., Ly, T.-K., Hinfray, N., Beaudouin, R., Neumann, M., Lovell-Badge, R., Bugeon, J. and Thermes, V.

dev201185