



Cover: A *Drosophila melanogaster* egg chamber at stage 10. Using CRISPR/Cas9 genome editing, the Tbx20 homolog Midline (MID) was endogenously tagged with sfGFP (green). MID sets the posterior boundary of the dorsal appendages' primordia, here marked by the transcription factor Broad (red). See Research Report by Stevens et al. (dev201016).

DEVELOPMENTAL TWISTS

The Fatal Pact

Mogami, T.

dev201327

PERSPECTIVES

In preprints: humans, the new model organism

Wells, J. M. and Guo, Z.

dev201395

In preprints: new insights into truncated radial glia

Steyert, M. and Nowakowski, T. J.

dev201374

SPOTLIGHT

Age reprogramming: cell rejuvenation by partial reprogramming

Singh, P. B. and Zhakupova, A.

dev200755

HYPOTHESIS

Transposon control as a checkpoint for tissue regeneration

Angileri, K. M., Bagia, N. A. and Feschotte, C.

dev191957

REVIEW

Cranium growth, patterning and homeostasis

Ang, P. S., Matrongolo, M. J., Zietowski, M. L., Nathan, S. L., Reid, R. R. and Tischfield, M. A.

dev201017

STEM CELLS AND REGENERATION

A method for stabilising the XX karyotype in female mESC cultures

Keniry, A., Jansz, N., Hickey, P. F., Breslin, K. A., Iminitoff, M., Beck, T., Gouil, Q., Ritchie, M. E. and Blewitt, M. E.

dev200845

Chimeric 3D gastruloids – a versatile tool for studies of mammalian peri-gastrulation development

Wehmeyer, A. E., Schüle, K. M., Conrad, A., Schröder, C. M., Probst, S. and Arnold, S. J.

dev200812

RESEARCH REPORTS

Shared *cis*-regulatory modules control expression of the tandem paralogs *midline* and *H15* in the follicular epithelium

Stevens, C. A., Stott, H. L., Desai, S. V. and Yakoby, N.

dev201016

Celsr1 suppresses *Wnt5a*-mediated chemoattraction to prevent incorrect rostral migration of facial branchiomotor neurons

Hummel, D., Becks, A., Men, H., Bryda, E. C., Glasco, D. M. and Chandrasekhar, A.

dev200553

RESEARCH ARTICLES

The microtubule end-binding proteins EB1 and Patronin modulate the spatiotemporal dynamics of myosin and pattern pulsed apical constriction

Guru, A., Saravanan, S., Sharma, D. and Narasimha, M.

dev199759

Complementary roles for auxin and auxin signalling revealed by reverse engineering lateral root stable prebranch site formation

Santos Teixeira, J., van den Berg, T. and ten Tusscher, K.

dev200927

The ERM-1 membrane-binding domain directs *erm-1* mRNA localization to the plasma membrane in the *C. elegans* embryo

Winkenbach, L. P., Parker, D. M., Williams, R. T. P. and Nishimura, E. O.

dev200930

Illuminati: a form of gene expression plasticity in *Drosophila* neural stem cells

Goupil, A., Heinen, J. P., Salame, R., Rossi, F., Reina, J., Pennetier, C., Simon, A., Skorski, P., Louzao, A., Bardin, A. J., Basto, R. and Gonzalez, C.

dev200808

Microtubule-associated ROP interactors affect microtubule dynamics and modulate cell wall patterning and root hair growth

Feiguelman, G., Cui, X., Sternberg, H., Ben Hur, E., Higa, T., Oda, Y., Fu, Y. and Yalovsky, S.

dev200811

ID1 and CEBPA coordinate epidermal progenitor cell differentiation

Kantzer, C. G., Yang, W., Grommisch, D., Vikhe Patil, K., Mak, K. H.-M., Shirokova, V. and Genander, M.

dev201262

Regulators specifying cell fate activate cell cycle regulator genes to determine cell numbers in ascidian larval tissues

Kobayashi, K., Tokuoka, M., Sato, H., Ariyoshi, M., Kawahara, S., Fujiwara, S., Kishimoto, T. and Satou, Y.

dev201218

The CRL4 E3 ligase Mahjong/DCAF1 controls cell competition through the transcription factor Xrp1, independently of polarity genes

Kumar, A. and Baker, N. E.

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Hybridization alters maternal and paternal genome contributions to early plant embryogenesis

Alaniz-Fabián, J., Orozco-Nieto, A., Abreu-Goodger, C. and Gillmor, C. S.

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Drosophila GSK3 β promotes microtubule disassembly and dendrite pruning in sensory neurons
Dzaki, N., Bu, S., Lau, S. S. Y., Yong, W. L. and Yu, F.
dev200844

Anther development in *Arabidopsis thaliana* involves symplastic isolation and apoplastic gating of the tapetum-middle layer interface
Truskina, J., Boeuf, S., Renard, J., Andersen, T. G., Geldner, N. and Ingram, G.
dev200596

Separable mechanisms drive local and global polarity establishment in the *Caenorhabditis elegans* intestinal epithelium
Pickett, M. A., Sallee, M. D., Cote, L., Naturale, V. F., Akpinaroglu, D., Lee, J., Shen, K. and Feldman, J. L.
dev200325

Overactive Wnt5a signaling disrupts hair follicle polarity during mouse skin development
Simonson, L., Oldham, E. and Chang, H.
dev200816

TECHNIQUES AND RESOURCES

Single-cell RNA-sequencing analysis of early sea star development
Foster, S., Oulhen, N., Fresques, T., Zaki, H. and Wessel, G.
dev200982

Modeling mammalian spermatogonial differentiation and meiotic initiation *in vitro*
Kirisanov, O., Johnson, T., Malachowski, T., Niedenberger, B. A., Gilbert, E. A., Bhowmick, D., Ozdinler, P. H., Gray, D. A., Fisher-Wellman, K., Hermann, B. P. and Geyer, C. B.
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