



Cover: *Drosophila* eye discs and brain lobes with all neurons in green (labelled using horse radish peroxidase), ganglion mother cells in red (labelled for Prospero), F-actin in magenta (labelled using phalloidin) and nuclei in blue (labelled using DAPI). This image was taken by Tonatiuh Molina Villa at the 2020 MBL Practical Course in Developmental Biology in Quintay, Chile, and was voted by readers of the Node (<http://thenode.biologists.com>) as the winner of a Development cover competition.

DEVELOPMENT AT A GLANCE

Defining epithelial-mesenchymal transitions in animal development

Sheng, G.

dev198036

HYPOTHESIS

Germ cell determination and the developmental origin of germ cell tumors

Nicholls, P. K. and Page, D. C.

dev198150

REVIEW

Development and maintenance of tendons and ligaments

Bobzin, L., Roberts, R. R., Chen, H.-J., Crump, J. G. and Merrill, A. E.

dev186916

STEM CELLS AND REGENERATION

Nutrition and PI3K/Akt signaling are required for p38-dependent regeneration

Esteban-Collado, J., Corominas, M. and Serras, F.

dev197087

Murine intestinal stem cells are highly sensitive to modulation of the T3/TR α 1-dependent pathway

Godart, M., Frau, C., Farhat, D., Giolito, M. V., Jamard, C., Le Nevé, C., Freund, J.-N., Penalva, L. O., Sirakov, M. and Plateroti, M.

dev194357

Arid1a regulates cell cycle exit of transit-amplifying cells by inhibiting the Aurka-Cdk1 axis in mouse incisor

Du, J., Jing, J., Chen, S., Yuan, Y., Feng, J., Ho, T.-V., Sehgal, P., Xu, J., Jiang, X. and Chai, Y.

dev198838

RESEARCH ARTICLES

Metabolically active and polyploid renal tissues rely on graded cytoprotection to drive developmental and homeostatic stress resilience

Burbridge, K., Holcombe, J. and Weavers, H.

dev197343

Tsga8 is required for spermatid morphogenesis and male fertility in mice

Kobayashi, Y., Tomizawa, S.-ichi, Ono, M., Kuroha, K., Minamizawa, K., Natsume, K., Dizdarević, S., Dočkal, I., Tanaka, H., Kawagoe, T., Seki, M., Suzuki, Y., Ogonuki, N., Inoue, K., Matoba, S., Anastassiadis, K., Mizuki, N., Ogura, A. and Ohbo, K.

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Regulation of otocyst patterning by *Tbx2* and *Tbx3* is required for inner ear morphogenesis in the mouse

Kaiser, M., Wojahn, I., Rudat, C., Lütke, T. H., Christoffels, V. M., Moon, A., Kispert, A. and Trowe, M.-O.

dev195651

Germline sexual fate is determined by the antagonistic action of *dmt1* and *foxl3/foxl2* in tilapia

Dai, S., Qi, S., Wei, X., Liu, X., Li, Y., Zhou, X., Xiao, H., Lu, B., Wang, D. and Li, M.

dev199380

The trophoblast clock controls transport across placenta in mice

Demarez, C., De Assis, L. V. M., Krohn, M., Ramella, N.,

Schwaninger, M., Oster, H. and Astiz, M.

dev197673

PRSS50 is a testis protease responsible for proper sperm tail formation and function

Scovell, J. M., Bournat, J. C., Szafran, A. T., Solis, M., Moore, J., Rivera, A., Chen, C. H., Zhang, J., Wilken, N., Seth, A. and Jorgez, C. J.

dev197558

The tolerance to hypoxia is defined by a time-sensitive response of the gene regulatory network in sea urchin embryos

Layous, M., Khalaily, L., Gildor, T. and Ben-Tabou de-Leon, S.

dev195859

The SRCAP chromatin remodeling complex promotes oxidative metabolism during prenatal heart development

Xu, M., Yao, J., Shi, Y., Yi, H., Zhao, W., Lin, X. and Yang, Z.

dev199026