



Cover: Confocal image of a horizontal section through a wild-type adult *Drosophila* eye, stained for Retinol dehydrogenase B (RdhB, green), N-cadherin (red) and Rhodopsin 1 (Rh1, blue). The image shows the curved external surfaces of the corneal lenses and their attachments to the secondary and tertiary pigment cells stained for RdhB, as well as the rhabdomeres stained for Rh1 that extend through the full depth of the retina. See Research article by Wang et al. (dev200217).

EDITORIAL

Preprints in Development
Briscoe, J. and Grewal, S.
dev200711

PERSPECTIVE

In preprints: the problem of producing precise patterns
Lowell, S. and Blin, G.
dev200710

INTERVIEW

The people behind the papers – Kelsey Brooks and Shawn Chavez
dev200791

REVIEW

The mechanical forces that shape our senses
Le, A. P., Kim, J. and Koehler, K. R.
dev197947

STEM CELLS AND REGENERATION

Notch-dependent DNA *cis*-regulatory elements and their dose-dependent control of *C. elegans* stem cell self-renewal
Lynch, T. R., Xue, M., Czerniak, C. W., Lee, C.H. and Kimble, J.
dev200332

Jagged 2b induces intercellular signaling within somites to establish hematopoietic stem cell fate in zebrafish
Wada, Y., Tsukatani, H., Kuroda, C., Miyazaki, Y., Otsu, M. and Kobayashi, I.
dev200339

Regenerating vascular mural cells in zebrafish fin blood vessels are not derived from pre-existing mural cells and differentially require Pdgfrb signalling for their development
Leonard, E. V., Figueroa, R. J., Bussmann, J., Lawson, N. D., Amigo, J. D. and Siekmann, A. F.
dev199640

RhoA/ROCK signaling antagonizes bovine trophoblast stem cell self-renewal and regulates preimplantation embryo size and differentiation
Pillai, V. V., Kei, T. G., Gurung, S., Das, M., Siqueira, L. G. B., Cheong, S. H., Hansen, P. J. and Selvaraj, V.
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Src acts with WNT/FGFRL signaling to pattern the planarian anteroposterior axis
Bonar, N. A., Gittin, D. I. and Petersen, C. P.
dev200125

RESEARCH ARTICLES

Molecular contribution to embryonic aneuploidy and karyotypic complexity in initial cleavage divisions of mammalian development
Brooks, K. E., Daughtry, B. L., Davis, B., Yan, M. Y., Fei, S. S., Shepherd, S., Carbone, L. and Chavez, S. L.
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Premeiotic endoreplication is essential for obligate parthenogenesis in geckos
Dedukh, D., Altmanová, M., Klíma, J. and Kratochvíl, L.
dev200345

FOXP4 differentially controls cold-induced beige adipocyte differentiation and thermogenesis
Wang, F., Xu, S., Chen, T., Ling, S., Zhang, W., Wang, S., Zhou, R., Xia, X., Yao, Z., Li, P., Zhao, X., Wang, J. and Guo, X.
dev200260

A 3D molecular map of the cavefish neural plate illuminates eye-field organization and its borders in vertebrates
Agnès, F., Torres-Paz, J., Michel, P. and Rétaux, S.
dev199966

FOXO1 represses sprouty 2 and sprouty 4 expression to promote arterial specification and vascular remodeling in the mouse yolk sac
Li-Villarreal, N., Wong, R. L. Y., Garcia, M. D., Udan, R. S., Poché, R. A., Rasmussen, T. L., Rhyner, A. M., Wythe, J. D. and Dickinson, M. E.
dev200131

The Blimp-1 transcription factor acts in non-neuronal cells to regulate terminal differentiation of the *Drosophila* eye
Wang, H., Morrison, C. A., Ghosh, N., Tea, J. S., Call, G. B. and Treisman, J. E.
dev200217

Traip controls mushroom body size by suppressing mitotic defects
O'Neill, R. S. and Rusan, N. M.
dev199987

SCARECROW is deployed in distinct contexts during rice and maize leaf development
Hughes, T. E. and Langdale, J. A.
dev200410

TECHNIQUES AND RESOURCES

Establishment and characterization of equine mammary organoids using a method translatable to other non-traditional model species
Bartlett, A. P., Harman, R. M., Weiss, J. R. and Van de Walle, G. R.
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