



Cover: Confocal image of a 12.5 dpc wild-type XX mouse gonad. The gonadal image is displayed in tandem to represent a pair of gonads. PECAM staining (blue) labels large, round primordial germ cells and the vasculature; BrdU labeling (red) identifies cells that have engaged in DNA synthesis; and phosphohistone H3 staining (green) indicates cells in mitosis. See article by Atchison et al., in *Development* 130, 3579-3586.

Research Articles

Urbach, R., Schnabel, R. and Technau, G. M.

The pattern of neuroblast formation, mitotic domains and proneural gene expression during early brain development in *Drosophila*

3589-3606

Urbach, R. and Technau, G. M.

Segment polarity and DV patterning gene expression reveals segmental organization of the *Drosophila* brain

3607-3620

Urbach, R. and Technau, G. M.

Molecular markers for identified neuroblasts in the developing brain of *Drosophila*

3621-3637

Leung, T., Bischof, J., Söll, I., Niessing, D., Zhang, D., Ma, J., Jäckle, H. and Driever, W.

bozozok directly represses *bmp2b* transcription and mediates the earliest dorsoventral asymmetry of *bmp2b* expression in zebrafish



3639-3649

Szuplewski, S., Kottler, B. and Terracol, R.

The *Drosophila* bZIP transcription factor Vrille is involved in hair and cell growth

3651-3662

Jeays-Ward, K., Hoyle, C., Brennan, J., Dandonneau, M., Alldus, G., Capel, B. and Swain, A.

Endothelial and steroidogenic cell migration are regulated by WNT4 in the developing mammalian gonad

3663-3670

Murphy, R. K., Froggett, S. J., Caruccio, P., Shancrofts, X., Kitamoto, T. and Godenschwege, T. A.

Targeted expression of *shibire^{ts}* and *semaphorin 1a* reveals critical periods for synapse formation in the giant fiber of *Drosophila*

3671-3682

Marchetti, M., Fanti, L., Berloco, M. and Pimpinelli, S.

Differential expression of the *Drosophila* BX-C in polytene chromosomes in cells of larval fat bodies: a cytological approach to identifying in vivo targets of the homeotic Ubx, Abd-A and Abd-B proteins

3683-3689

Janody, F., Martirosyan, Z., Benlali, A. and Treisman, J. E.

Two subunits of the *Drosophila* mediator complex act together to control cell affinity

3691-3701

Kumar, J. P., Hsiung, F., Powers, M. A. and Moses, K.

Nuclear translocation of activated MAP kinase is developmentally regulated in the developing *Drosophila* eye

3703-3714

Rawlins, E. L., White, N. M. and Jarman, A. P.

Echinoid limits R8 photoreceptor specification by inhibiting inappropriate EGF receptor signalling within R8 equivalence groups

3715-3724

Spencer, S. A. and Cagan, R. L.

Echinoid is essential for regulation of Egfr signaling and R8 formation during *Drosophila* eye development

3725-3733

Wu, X., Dinneny, J. R., Crawford, K. M., Rhee, Y., Citovsky, V., Zambryski, P. C. and Weigel, D.

Modes of intercellular transcription factor movement in the *Arabidopsis* apex

3735-3745

Park, H.-C. and Appel, B.

Delta-Notch signaling regulates oligodendrocyte specification

3747-3755

Goodman, S. J., Branda, C. S., Robinson, M. K., Burdine, R. D. and Stern, M. J.

Alternative splicing affecting a novel domain in the *C. elegans* EGL-15 FGF receptor confers functional specificity

3757-3766

Geldmacher-Voss, B., Reugels, A. M., Pauls, S. and Campos-Ortega, J. A.

A 90° rotation of the mitotic spindle changes the orientation of mitoses of zebrafish neuroepithelial cells

3767-3780

Clark, S. G. and Chiu, C.

C. elegans ZAG-1, a Zn-finger-homeodomain protein, regulates axonal development and neuronal differentiation

3781-3794

Wacker, I., Schwarz, V., Hedgecock, E. M. and Hutter, H.

zag-1, a Zn-finger homeodomain transcription factor controlling neuronal differentiation and axon outgrowth in *C. elegans*

3795-3805

Forlani, S., Lawson, K. A. and Deschamps, J.

Acquisition of Hox codes during gastrulation and axial elongation in the mouse embryo

3807-3819

Wiellette, E. L. and Sive, H.

vhnf1 and *Fgf* signals synergize to specify rhombomere identity in the zebrafish hindbrain

3821-3829

Toker, A. S., Teng, Y., Ferreira, H. B., Emmons, S. W. and Chalfie, M.

The *Caenorhabditis elegans* *spalt-like* gene *sem-4* restricts touch cell fate by repressing the selector Hox gene *egl-5* and the effector gene *mec-3*

3831-3840

Komatsu, M., Chujo, A., Nagato, Y., Shimamoto K. and Kyozuka, J.

FRIZZY PANICLE is required to prevent the formation of axillary meristems and to establish floral meristem identity in rice spikelets

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Araujo, H., Negreiros, E. and Bier, E.

Integrins modulate Sog activity in the *Drosophila* wing

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Latinkic, B. V., Koteca, S. and Mohun, T. J.

Induction of cardiomyocytes by GATA4 in *Xenopus* ectodermal explants

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Meilhac, S. M., Kelly, R. G., Rocancourt, D., Eloy-Trinquet, S., Nicolas, J.-F. and Buckingham, M. E.

A retrospective clonal analysis of the myocardium reveals two phases of clonal growth in the developing mouse heart

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Jeong, Y. and Epstein, D. J.

Distinct regulators of *Shh* transcription in the floor plate and notochord indicate separate origins for these tissues in the mouse node

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Movies available online



Supplemental data available online