



Cover: Medial view of a latex paint-filled mouse inner ear at E16.5. All structures of the inner ear have reached their mature shape and the cochlea has completed 1.75 turns by this stage. *Six1* is expressed in all sensory epithelia of the ear and *Six1* mutant mice lack all sensory areas of the ear. See article by Zheng et al. on p. 3989.

Meeting Review

Currie, P.

Developmental diorama

3903-3906

Research Articles

Dekens, M. P. S., Pelegri, F. J., Maischein, H.-M. and Nüsslein-Volhard, C.

The maternal-effect gene *futile cycle* is essential for pronuclear congression and mitotic spindle assembly in the zebrafish zygote

3907-3916

Mayer, A. N. and Fishman, M. C.

nil per os encodes a conserved RNA recognition motif protein required for morphogenesis and cytodifferentiation of digestive organs in zebrafish

3917-3928

Takebayashi-Suzuki, K., Funami, J., Tokumori, D., Saito, A., Watabe, T., Miyazono, K., Kanda, A. and Suzuki, A.

Interplay between the tumor suppressor p53 and TGF β signaling shapes embryonic body axes in *Xenopus*

3929-3939

Byrne, M. E., Groover, A. T., Fontana, J. R. and Martienssen, R. A.

Phyllotactic pattern and stem cell fate are determined by the *Arabidopsis* homeobox gene *BELLRINGER*

3941-3950

Hooper, J. E.

Smoothed translates Hedgehog levels into distinct responses

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Doerflinger, H., Benton, R., Shulman, J. M. and St Johnston, D.

The role of PAR-1 in regulating the polarised microtubule cytoskeleton in the *Drosophila* follicular epithelium

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Haase, A. and Bicker, G.

Nitric oxide and cyclic nucleotides are regulators of neuronal migration in an insect embryo

3977-3987

Zheng, W., Huang, L., Wei, Z.-B., Silvius, D., Tang, B. and Xu, P.-X.

The role of *Six1* in mammalian auditory system development

3989-4000

Lee, S. B., Cho, K. S., Kim, E. and Chung, J.

blistery encodes *Drosophila* tensin protein and interacts with integrin and the JNK signaling pathway during wing development

4001-4010

Falbel, T. G., Koch, L. M., Nadeau, J. A., Segui-Simarro, J. M., Sack, F. D. and Bednarek, S. Y.

SCD1 is required for cell cytokinesis and polarized cell expansion in *Arabidopsis thaliana*

4011-4024

Bach, A., Lallemand, Y., Nicola, M.-A., Ramos, C., Mathis, L., Maufras, M. and Robert, B.

Msx1 is required for dorsal diencephalon patterning

4025-4036

Carreira-Barbosa, F., Concha, M. L., Takeuchi, M., Ueno, N., Wilson, S. W. and Tada, M.

Pickle 1 regulates cell movements during gastrulation and neuronal migration in zebrafish

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Oelgeschläger, M., Reversade, B., Larraín, J., Little, S., Mullins, M. C. and De Robertis, E. M.

The pro-BMP activity of Twisted gastrulation is independent of BMP binding

4047-4056

Thellmann, M., Hatzold, J. and Conradt, B.

The Snail-like CES-1 protein of *C. elegans* can block the expression of the *BH3-only* cell-death activator gene *egl-1* by antagonizing the function of bHLH proteins

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Reinhardt, D., Frenz, M., Mandel, T. and Kuhlemeier, C.

Microsurgical and laser ablation analysis of interactions between the zones and layers of the tomato shoot apical meristem

4073-4083

Yamada, T., Okabe, M. and Hiromi, Y.

EDL/MAE regulates EGF-mediated induction by antagonizing Ets transcription factor Pointed

4085-4096

Xu, L., Xu, Y., Dong, A., Sun, Y., Pi, L., Xu, Y. and Huang, H. Novel *as1* and *as2* defects in leaf adaxial-abaxial polarity reveal the requirement for *ASYMMETRIC LEAVES1* and *2* and *ERECTA* functions in specifying leaf adaxial identity

4097-4107

Lundell, M. J., Lee, H.-K., Pérez, E. and Chadwell, L.

The regulation of apoptosis by Numb/Notch signaling in the serotonin lineage of *Drosophila*

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Colnot, C., Thompson, Z., Miclau, T., Werb, Z. and Helms, J. A.

Altered fracture repair in the absence of MMP9

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Kölzer, S., Fuss, B., Hoch, M. and Klein, T.

defective proventriculus is required for pattern formation along the proximodistal axis, cell proliferation and formation of veins in the *Drosophila* wing

4135-4147

Pattyn, A., Vallstedt, A., Dias, J. M., Sander, M. and Ericson, J. Complementary roles for Nkx6 and Nkx2 class proteins in the establishment of motoneuron identity in the hindbrain

4149-4159

Hiratani, I., Yamamoto, N., Mochizuki, T., Ohmori, S.-y. and Taira, M.

Selective degradation of excess Ldb1 by Rnf12/RLIM confers proper Ldb1 expression levels and Xlim-1/Ldb1 stoichiometry in *Xenopus* organizer functions

4161-4175

Zhang, L., El-Hodiri, H. M., Ma, H.-F., Zhang, X., Servetnick, M., Wensel, T. G. and Jamrich, M.

Targeted expression of the dominant-negative FGFR4a in the eye using *Xrx1A* regulatory sequences interferes with normal retinal development

4177-4186

Romano, L. A. and Wray, G. A.

Conservation of *Endo16* expression in sea urchins despite evolutionary divergence in both cis and trans-acting components of transcriptional regulation

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Martin, S. G., Leclerc, V., Smith-Litière, K. and St Johnston, D.

The identification of novel genes required for *Drosophila* anteroposterior axis formation in a germline clone screen using GFP-Staufen

4201-4215

Development and Disease

Fehling, H. J., Lacaud, G., Kubo, A., Kennedy, M., Robertson, S., Keller, G. and Kouskoff, V.

Tracking mesoderm induction and its specification to the hemangioblast during embryonic stem cell differentiation

4217-4227



Movies available online



Supplemental data available online