



Cover: *PHAN* and *KNOX* genes regulate compound leaf development in tomato. In situ RT-PCR experiments show expression of *LePHAN* mRNA (green) in shoot apical meristems, developing leaflet primordia in the compound leaf, and leaf and stem vascular traces. See article by Kim et al. on p. 4405.

Meeting Review

Solnica-Krezel, L. and Eaton, S.

Embryo morphogenesis: getting down to cells and molecules

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4351-4362

Research Articles

Erhardt, S., Su, I.-h., Schneider, R., Barton, S., Bannister, A. J., Perez-Burgos, L., Jenuwein, T., Kouzarides, T., Tarakhovsky, A. and Surani, M. A.

Consequences of the depletion of zygotic and embryonic enhancer of zeste 2 during preimplantation mouse development



4235-4248

4383-4392

Gifford, M. L., Dean, S. and Ingram, G. C.

The *Arabidopsis ACR4* gene plays a role in cell layer organisation during ovule integument and sepal margin development



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4393-4403

Takahashi, Y., Inoue, T., Gossler, A. and Saga, Y.

Feedback loops comprising Dll1, Dll3 and Mesp2, and differential involvement of Psen1 are essential for rostrocaudal patterning of somites



4259-4268

4405-4415

Gajewski, M., Sieger, D., Alt, B., Leve, C., Hans, S., Wolff, C., Rohr, K. B. and Tautz, D.

Anterior and posterior waves of cyclic *her1* gene expression are differentially regulated in the presomitic mesoderm of zebrafish



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4417-4426

Molyneaux, K. A., Zinszner, H., Kunwar, P. S., Schaible, K., Stebler, J., Sunshine, M. J., O'Brien, W., Raz, E., Littman, D., Wylie, C. and Lehmann, R.

The chemokine SDF1/CXCL12 and its receptor CXCR4 regulate mouse germ cell migration and survival



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4427-4437

Molyneaux, K. A., Schaible, K. and Wylie, C.

GP130, the shared receptor for the LIF/IL6 cytokine family in the mouse, is not required for early germ cell differentiation, but is required cell-autonomously in oocytes for ovulation



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Itasaki, N., Jones, C. M., Mercurio, S., Rowe, A., Domingos, P. M., Smith, J. C. and Krumlauf, R.

Wise, a context-dependent activator and inhibitor of Wnt signalling



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Tallafuß, A. and Bally-Cuif, L.

Tracing of *her5* progeny in zebrafish transgenics reveals the dynamics of midbrain-hindbrain neurogenesis and maintenance



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Ben-Yair, R., Kahane, N. and Kalcheim, C.

Coherent development of dermomyotome and dermis from the entire mediolateral extent of the dorsal somite



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Walshe, J. and Mason, I.

Unique and combinatorial functions of Fgf3 and Fgf8 during zebrafish forebrain development



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Corrigendum

Kim, J.-Y., Yuan, Z. and Jackson, D.
Developmental regulation and significance of KNOX protein trafficking in *Arabidopsis*

4351-4362

Nam, S.-C. and Choi, K.-W.

Interaction of Par-6 and Crumbs complexes is essential for photoreceptor morphogenesis in *Drosophila*

4363-4372

Wheeler, S. R., Carrico, M. L., Wilson, B. A., Brown, S. J. and Skeath, J. B.

The expression and function of the *achaete-scute* genes in *Tribolium castaneum* reveals conservation and variation in neural pattern formation and cell fate specification

4373-4381

Zelhof, A. C., Koundakjian, E., Scully, A. L., Hardy, R. W. and Pounds, L.

Mutation of the photoreceptor specific homeodomain gene *Pph13* results in defects in phototransduction and rhabdomere morphogenesis

4383-4392

Ferkowicz, M. J., Starr, M., Xie, X., Li, W., Johnson, S. A., Shelley, W. C., Morrison, P. R. and Yoder, M. C.

CD41 expression defines the onset of primitive and definitive hematopoiesis in the murine embryo

4393-4403

Kim, M., Pham, T., Hamidi, A., McCormick, S., Kuzoff, R. K. and Sinha, N.

Reduced leaf complexity in tomato *wiry* mutants suggests a role for *PHAN* and *KNOX* genes in generating compound leaves

4405-4415

Jenkins, A. B., McCaffery, J. M. and Van Doren, M.

Drosophila E-cadherin is essential for proper germ cell-soma interaction during gonad morphogenesis

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Bogdan, S. and Klämbt, C.

Kette regulates actin dynamics and genetically interacts with Wave and Wasp

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Solberg, H., Rinkenberger, J., Danø, K., Werb, Z. and Lund, L. R.

A functional overlap of plasminogen and MMPs regulates vascularization during placental development

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Mitsiadis, T. A., Angelis, I., James, C., Lendahl, U. and Sharpe, P. T.

Role of Islet1 in the patterning of murine dentition

4451-4460

Imai, K. S., Satoh, N. and Satou, Y.

A Twist-like bHLH gene is a downstream factor of an endogenous FGF and determines mesenchymal fate in the ascidian embryos

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Aldaz, S., Morata, G. and Azpiazu, N.

The Pax-homeobox gene *eyegone* is involved in the subdivision of the thorax of *Drosophila*

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Development and Disease

Ghiglione, C., Amundadottir, L., Andressdottir, M., Bilder, D., Diamanti, J. A., Noselli, S., Perrimon, N. and Carraway, K. L., III

Mechanism of inhibition of the *Drosophila* and mammalian EGF receptors by the transmembrane protein Kekkon 1

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Corrigendum



Movies available online



Supplemental data available online