

Cover: Capillary aneurysm in the CNS due to pericyte loss caused by endothelium-specific ablation of PDGFB. Expression of *Tie1-Cre* in the endothelium results in recombination of both *Pdgfb* and a stop sequence, thereby allowing expression of *lacZ* in *Pdgfb* null cells. Section is stained for β -gal (blue) and counterstained with Erythrosin (red). See article by Bjarnegård et al. on p. 1847.

Review

He, X., Semenov, M., Tamai, K. and Zeng, X.
LDL receptor-related proteins 5 and 6 in Wnt/ β -catenin signaling: Arrows point the way



1663-1677



1801-1812

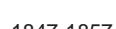
Research articles

Quan, X.-J., Denayer, T., Yan, J., Jafar-Nejad, H., Philippi, A., Lichtarge, O., Vleminckx, K. and Hassan, B. A.

Evolution of neural precursor selection: functional divergence of proneural proteins



1679-1689



1847-1857

Perezgasga, L., Jiang, J., Bolival, B., Jr, Hiller, M., Benson, E., Fuller, M. T. and White-Cooper, H.

Regulation of transcription of meiotic cell cycle and terminal differentiation genes by the testis-specific Zn-finger protein *matotopetli*



1691-1702



1859-1868

Leise, W. F., III and Mueller, P. R.

Inhibition of the cell cycle is required for convergent extension of the paraxial mesoderm during *Xenopus* neurulation



1703-1715



1869-1879

Dunn, N. R., Vincent, S. D., Oxburgh, L., Robertson, E. J. and Bikoff, E. K.

Combinatorial activities of Smad2 and Smad3 regulate mesoderm formation and patterning in the mouse embryo

1717-1728

Bucher, G. and Klingler, M.

Divergent segmentation mechanism in the short germ insect *Tribolium* revealed by *giant* expression and function

1729-1740



Hashimoto, H., Rebagliati, M., Ahmad, N., Muraoka, O., Kurokawa, T., Hibi, M. and Suzuki, T.

The Cerberus/Dan-family protein Charon is a negative regulator of Nodal signaling during left-right patterning in zebrafish

1741-1753



Saint-Germain, N., Lee, Y.-H., Zhang, Y., Sargent, T. D. and Saint-Jeannet, J.-P.

Specification of the otic placode depends on Sox9 function in *Xenopus*

1755-1763



Gerisch, B. and Antebi, A.

Hormonal signals produced by DAF-9/cytochrome P450 regulate *C. elegans* dauer diapause in response to environmental cues

1765-1776



Mak, H. Y. and Ruvkun, G.

Intercellular signaling of reproductive development by the *C. elegans* DAF-9 cytochrome P450

1777-1786



Celso, C. L., Prowse, D. M. and Watt, F. M.

Transient activation of β -catenin signalling in adult mouse epidermis is sufficient to induce new hair follicles but continuous activation is required to maintain hair follicle tumours

1787-1799



Supplemental data online

Raft, S., Nowotschin, S., Liao, J. and Morrow, B. E.

Suppression of neural fate and control of inner ear morphogenesis by *Tbx1*



1813-1824

Lyu, J. and Joo, C.-K.

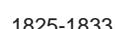
Wnt signaling enhances FGF2-triggered lens fiber cell differentiation



1825-1833

Yuhki, M., Yamada, M., Kawano, M., Iwasato, T., Itohara, S., Yoshida, H., Ogawa, M. and Mishina, Y.

BMPR1A signaling is necessary for hair follicle cycling and hair shaft differentiation in mice



1835-1845

Urban, S., Brown, G. and Freeman, M.

EGF receptor signalling protects smooth-cuticle cells from apoptosis during *Drosophila* ventral epidermis development

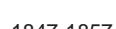


1847-1857

Research articles: Development and disease

Bjarnegård, M., Enge, M., Norlin, J., Gustafsdottir, S., Fredriksson, S., Abramsson, A., Takemoto, M., Gustafsson, E., Fässler, R. and Betsholtz, C.

Endothelium-specific ablation of PDGFB leads to pericyte loss and glomerular, cardiac and placental abnormalities



1847-1857

Mok, H., Jelinek, J., Pai, S., Cattanach, B. M., Prchal, J. T., Youssoufian, H. and Schumacher, A.

Disruption of ferroportin 1 regulation causes dynamic alterations in iron homeostasis and erythropoiesis in polycythaemia mice



1859-1868

Umeda, K., Heike, T., Yoshimoto, M., Shiota, M., Suemori, H., Luo, H. Y., Chui, D. H. K., Torii, R., Shibuya, M., Nakatsuji, N. and Nakahata, T.

Development of primitive and definitive hematopoiesis from non-human primate embryonic stem cells in vitro



1869-1879