



Cover: Cross-section immunofluorescence showing β -catenin staining (red) and laminin (green) of P6 murine uterine horn. β -Catenin shows an unusual apical staining in the epithelium and cytoplasmic staining in the developing myometrium. No evidence of the canonical WNT signaling pathway is seen during uterine development (nuclear signaling). See article by Mericskay et al. on p. 2061.

Research articles

Casanueva, M. O. and Ferguson, E. L.

Germline stem cell number in the *Drosophila* ovary is regulated by redundant mechanisms that control Dpp signaling
1881-1890

Chaboissier, M.-C., Kobayashi, A., Vidal, V. I. P., Lützkendorf, S., van de Kant, H. J. G., Wegner, M., de Rooij, D. G., Behringer, R. R. and Schedl, A.

Functional analysis of *Sox8* and *Sox9* during sex determination in the mouse
1891-1901

Jhaveri, D., Saharan, S., Sen, A. and Rodrigues, V.

Positioning sensory terminals in the olfactory lobe of *Drosophila* by Robo signaling
1903-1912

Matsuda, N. and Mishina, M.

Identification of chaperonin CCT γ subunit as a determinant of retinotectal development by whole-genome subtraction cloning from zebrafish *no tectal neuron* mutant
1913-1925

Bornemann, D. J., Duncan, J. E., Staatz, W., Selleck, S. and Warrior, R.

Abrogation of heparan sulfate synthesis in *Drosophila* disrupts the Wingless, Hedgehog and Decapentaplegic signaling pathways
1927-1938

Rosin, D., Schejter, E., Volk, T. and Shilo, B.-Z.

Apical accumulation of the *Drosophila* PDGF/VEGF receptor ligands provides a mechanism for triggering localized actin polymerization
1939-1948

Goodrich, J. S., Clouse, K. N. and Schüpbach, T.

Hrb27C, Sqd and Otu cooperatively regulate *gurken* RNA localization and mediate nurse cell chromosome dispersion in *Drosophila* oogenesis
1949-1958

Sengupta, A. K., Kuhrs, A. and Müller, J.

General transcriptional silencing by a Polycomb response element in *Drosophila*
1959-1965

Good, K., Ciosk, R., Nance, J., Neves, A., Hill, R. J. and Priess, J. R.

The T-box transcription factors TBX-37 and TBX-38 link GLP-1/Notch signaling to mesoderm induction in *C. elegans* embryos
1967-1978

Lwigale, P. Y., Conrad, G. W. and Bronner-Fraser, M.

Graded potential of neural crest to form cornea, sensory neurons and cartilage along the rostrocaudal axis
1979-1991

Geling, A., Plessy, C., Rastegar, S., Strähle, U. and Bally-Cuif, L.

Her5 acts as a prepatterning factor that blocks *neurogenin1* and *coe2* expression upstream of Notch to inhibit neurogenesis at the midbrain-hindbrain boundary
1993-2006

Arbeitman, M. N., Fleming, A. A., Siegal, M. L., Null, B. H. and Baker, B. S.

A genomic analysis of *Drosophila* somatic sexual differentiation and its regulation
2007-2021

Szafrański, P. and Goode, S.

A Fasciclin 2 morphogenetic switch organizes epithelial cell cluster polarity and motility
2023-2036

Puelles, E., Annino, A., Tuorto, F., Usiello, A., Acampora, D., Czerny, T.,

Brodski, C., Ang, S.-L., Wurst, W. and Simeone, A.
Otx2 regulates the extent, identity and fate of neuronal progenitor domains in the ventral midbrain
2037-2048

Pepper, A. S.-R., McCane, J. E., Kemper, K., Au Yeung, D., Lee, R. C.,

Ambros, V. and Moss, E. G.
The *C. elegans* heterochronic gene *lin-46* affects developmental timing at two larval stages and encodes a relative of the scaffolding protein gephyrin
2049-2059

Mericskay, M., Kitajewski, J. and Sassoon, D.

Wnt5a is required for proper epithelial-mesenchymal interactions in the uterus
2061-2072

Dalpé, G., Zhang, L. W., Zheng, H. and Culotti, J. G.

Conversion of cell movement responses to Semaphorin-1 and Plexin-1 from attraction to repulsion by lowered levels of specific RAC GTPases in *C. elegans*
2073-2088

Zhang, H. and Tower, J.

Sequence requirements for function of the *Drosophila* chorion gene locus ACE3 replicator and ori- β origin elements
2089-2099

Ueda, M., Matsui, K., Ishiguro, S., Sano, R., Wada, T., Paponov, I., Palme, K. and Okada, K.

The *HALTED ROOT* gene encoding the 26S proteasome subunit RPT2a is essential for the maintenance of *Arabidopsis* meristems
2101-2111

Cook, O., Biehs, B. and Bier, E.

brinker and *optomotor-blind* act coordinately to initiate development of the L5 wing vein primordium in *Drosophila*
2113-2124

Cecconi, F., Roth, K. A., Dolgov, O., Munarriz, E., Anokhin, K., Gruss, P. and Salminen, M.

Apaf1-dependent programmed cell death is required for inner ear morphogenesis and growth
2125-2135

Mercurio, S., Latinkic, B., Itasaki, N., Krumlauf, R. and Smith, J. C.

Connective-tissue growth factor modulates WNT signalling and interacts with the WNT receptor complex
2137-2147

Bulgakov, O. V., Eggenschwiler, J. T., Hong, D.-H., Anderson, K. V. and Li, T.

FKBP8 is a negative regulator of mouse sonic hedgehog signaling in neural tissues
2149-2159

Research articles: Development and disease

Zelzer, E., Mamluk, R., Ferrara, N., Johnson, R. S., Schipani, E. and Olsen, B. R.

VEGFA is necessary for chondrocyte survival during bone development
2161-2171

Caillé, I., Allinquant, B., Dupont, E., Bouillot, C., Langer, A., Müller, U. and Prochiantz, A.

Soluble form of amyloid precursor protein regulates proliferation of progenitors in the adult subventricular zone
2173-2181

Pesah, Y., Pham, T., Burgess, H., Middlebrooks, B., Verstreken, P., Zhou, Y., Harding, M., Bellen, H. and Mardon, G.

Drosophila parkin mutants have decreased mass and cell size and increased sensitivity to oxygen radical stress
2183-2194

Morikawa, Y. and Cserjesi, P.

Extra-embryonic vasculature development is regulated by the transcription factor HAND1
2195-2204

Stottmann, R. W., Choi, M., Mishina, Y., Meyers, E. N. and Klingensmith, J.

BMP receptor IA is required in mammalian neural crest cells for development of the cardiac outflow tract and ventricular myocardium
2205-2218

Chen, H., Shi, S., Acosta, L., Li, W., Lu, J., Bao, S., Chen, Z., Yang, Z., Schneider, M. D., Chien, K. R., Conway, S. J., Yoder, M. C., Haneline, L. S., Franco, D. and Shou, W.

BMP10 is essential for maintaining cardiac growth during murine cardiogenesis
2219-2231

Erratum

2233

Corrigendum

2235