PRIMER

387  Evolutionary crossroads in developmental biology: *Dictyostelium discoideum*
Schaap, P.

DEVELOPMENT AND STEM CELLS

397  Her9 represses neurogenic fate downstream of Tbx1 and retinoic acid signaling in the inner ear
Radosevic, M., Robert-Moreno, À., Coolen, M., Bally-Cuif, L. and Alsina, B.

409  The Wnt receptor Ryk controls specification of GABAergic neurons versus oligodendrocytes during telencephalon development

421  Combinatorial cell-specific regulation of GSK3 directs cell differentiation and polarity in *Dictyostelium*
Kim, L., Brzostowski, J., Majithia, A., Lee, N.-S., McMains, V. and Kimmel, A. R.

431  Lineage tracing reveals the dynamic contribution of *Hes1*+ cells to the developing and adult pancreas
Kopinke, D., Brailsford, M., Shea, J. E., Leavitt, R., Scaife, C. L. and Murtaugh, L. C.

443  Combinatorial regulation of optic cup progenitor cell fate by SOX2 and PAX6
Matsushima, D., Heavner, W. and Pevny, L. H.

RESEARCH ARTICLES

455  Regulation of coflin phosphorylation and asymmetry in collective cell migration during morphogenesis

465  Role of Tbx2 in defining the territory of the pronephric nephron
Cho, G.-S., Choi, S.-C., Park, E. C. and Han, J.-K.

475  Rapid differential transport of Nodal and Lefty on sulfated proteoglycan-rich extracellular matrix regulates left-right asymmetry in *Xenopus*
Marjoram, L. and Wright, C.

487  Cilia-driven fluid flow as an epigenetic cue for otolith biomineralization on sensory hair cells of the inner ear
Yu, X., Lau, D., Ng, C. P. and Roy, S.

495  The disintegrin/metalloproteinase Adam10 is essential for epidermal integrity and Notch-mediated signaling

507  *C. elegans bcd-1*, homolog of the *Drosophila* dynein accessory factor *Bicaudal D*, regulates the branching of PVD sensory neuron dendrites
Aguirre-Chen, C., Bülow, H. E. and Kaprielian, Z.

519  F3/contactin and TAG1 play antagonistic roles in the regulation of sonic hedgehog-induced cerebellar granule neuron progenitor proliferation
Xenaki, D., Martin, I. B., Yoshida, L., Ohyama, K., Gennarini, G., Grumet, M., Sakurai, T. and Furley, A. J. W.

531  Spatial and temporal requirements for sonic hedgehog in the regulation of thalamic interneuron identity
Wnt/PCP signaling controls intracellular position of MTOCs during gastrulation convergence and extension movements
Sepich, D. S., Usmani, M., Pawlicki, S. and Solnica-Krezel, L.

Sugar-free frosting, a homolog of SAD kinase, drives neural-specific glycan expression in the *Drosophila* embryo
Baas, S., Sharrow, M., Kotu, V., Middleton, M., Nguyen, K., Flanagan-Steet, H., Aoki, K. and Tiemeyer, M.

PDGF-A controls mesoderm cell orientation and radial intercalation during *Xenopus* gastrulation
Damm, E. W. and Winklbauer, R.

Coordination of mitosis and morphogenesis: role of a prolonged G2 phase during chordate neurulation
Ogura, Y., Sakaue-Sawano, A., Nakagawa, M., Satoh, N., Miyawaki, A. and Sasakura, Y.

*Xenopus* germline *nanos1* is translationally repressed by a novel structure-based mechanism
Luo, X., Nerlick, S., An, W. and King, M. L.