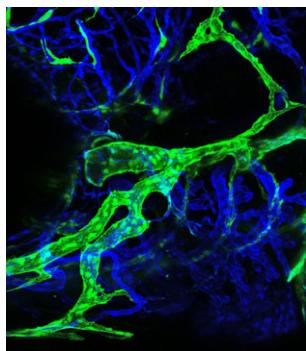


Development



Cover: Lateral image of the zebrafish facial lymphatic (FL) network in a *lyve1:DsRed2;kdr1:EGFP* transgenic at 15 dpf. The FL network is in green (*lyve1* expression), while the blood vasculature is in blue (*kdr1* expression). A subset of the lymphatic vessels does not associate with the blood vasculature. See Research article by Okuda et al. on p. 2381.

PRIMER

- 2255 Tudor domain proteins in development
Pek, J. W., Anand, A. and Kai, T.

REVIEW

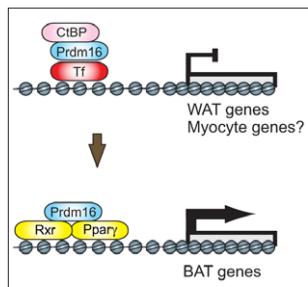
- 2267 The Prdm family: expanding roles in stem cells and development
Hohenauer, T. and Moore, A. W.

DEVELOPMENT AND STEM CELLS

- 2283 Hyperproliferation of mitotically active germ cells due to defective anti-Müllerian hormone signaling mediates sex reversal in medaka
Nakamura, S., Watakabe, I., Nishimura, T., Picard, J.-Y., Toyoda, A., Taniguchi, Y., di Clemente, N. and Tanaka, M.
- 2288 The developmental dismantling of pluripotency is reversed by ectopic Oct4 expression
Osorno, R., Tsakiridis, A., Wong, F., Cambray, N., Economou, C., Wilkie, R., Blin, G., Scotting, P. J., Chambers, I. and Wilson, V.
- 2299 Olig2-dependent developmental fate switch of NG2 cells
Zhu, X., Zuo, H., Maher, B. J., Serwanski, D. R., LoTurco, J. J., Lu, Q. R. and Nishiyama, A.
- 2308 Neurogenin 2 regulates progenitor cell-cycle progression and Purkinje cell dendritogenesis in cerebellar development
Florio, M., Leto, K., Muzio, L., Tinterri, A., Badaloni, A., Croci, L., Zordan, P., Barili, V., Albieri, I., Guillemot, F., Rossi, F. and Consalez, G. G.
- 2321 Regulation of neuronal differentiation at the neurogenic wavefront
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RESEARCH ARTICLES

- 2330 COUP-TFII is essential for metanephric mesenchyme formation and kidney precursor cell survival
Yu, C.-T., Tang, K., Suh, J. M., Jiang, R., Tsai, S. Y. and Tsai, M.-J.
- 2340 Von Hippel-Lindau protein in the RPE is essential for normal ocular growth and vascular development
Lange, C. A. K., Luhmann, U. F. O., Mowat, F. M., Georgiadis, A., West, E. L., Abrahams, S., Sayed, H., Powney, M. B., Fruttiger, M., Smith, A. J., Sowden, J. C., Maxwell, P. H., Ali, R. R. and Bainbridge, J. W. B.
- 2351 FGF signaling establishes the anterior border of the *Ciona* neural tube
Wagner, E. and Levine, M.
- 2360 Distinct developmental origins and regulatory mechanisms for GABAergic neurons associated with dopaminergic nuclei in the ventral mesodiencephalic region
Achim, K., Peltopuro, P., Lahti, L., Li, J., Salminen, M. and Partanen, J.
- 2371 Hedgehog-dependent proliferation drives modular growth during morphogenesis of a dermal bone
Huycke, T. R., Eames, B. F. and Kimmel, C. B.
- 2381 *lyve1* expression reveals novel lymphatic vessels and new mechanisms for lymphatic vessel development in zebrafish
Okuda, K. S., Astin, J. W., Misa, J. P., Flores, M. V., Crosier, K. E. and Crosier, P. S.



Prdm factors either act as direct histone methyltransferases or recruit a suite of histone-modifying enzymes to target promoters. Here, Hohenauer and Moore discuss the roles played by these proteins in stem cells and throughout development. See Review on p. 2267.

- 2392** β -Catenin gain of function in muscles impairs neuromuscular junction formation
Wu, H., Lu, Y., Barik, A., Joseph, A., Taketo, M. M., Xiong, W.-C. and Mei, L.
- 2405** Novel mechanisms of early upper and lower urinary tract patterning regulated by RetY1015 docking tyrosine in mice
Hoshi, M., Batourina, E., Mendelsohn, C. and Jain, S.
- 2416** A zebrafish Notum homolog specifically blocks the Wnt/ β -catenin signaling pathway
Flowers, G. P., Topczewska, J. M. and Topczewski, J.
- 2426** Gut endoderm is involved in the transfer of left-right asymmetry from the node to the lateral plate mesoderm in the mouse embryo
Saund, R. S., Kanai-Azuma, M., Kanai, Y., Kim, I., Lucero, M. T. and Saijoh, Y.
- 2436** Stable establishment of cotyledon identity during embryogenesis in *Arabidopsis* by *ANGUSTIFOLIA3* and *HANABA TARANU*
Kanei, M., Horiguchi, G. and Tsukaya, H.

TECHNICAL PAPER

- 2447** In vitro generation of mature dopamine neurons by decreasing and delaying the expression of exogenous Nurr1
Park, C.-H., Lim, M.-S., Rhee, Y.-H., Yi, S.-H., Kim, B.-K., Shim, J.-W., Kim, Y. H., Jung, S. J. and Lee, S.-H.