

Development



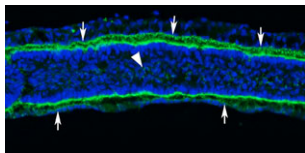
Cover: The DRL, also known as LIO, receptor is expressed (red) in the *Drosophila* larval brain in a complex pattern. Particularly, DRL is close to, but not inside, mushroom body axons (FASII in green). This correlates with the extrinsic DRL requirement for mushroom body development. See research article by Grillenzoni et al. on p. 3089.

RESEARCH REPORT

- 3049** Oriented cell divisions in the extending germband of *Drosophila*
Morais da Silva, S. and Vincent, J.-P.

RESEARCH ARTICLES

- 3055** The planar polarity pathway promotes coordinated cell migration during *Drosophila* oogenesis
Bastock, R. and Strutt, D.
- 3065** Cranial neural crest cells regulate head muscle patterning and differentiation during vertebrate embryogenesis
Rinon, A., Lazar, S., Marshall, H., Büchmann-Møller, S., Neufeld, A., Elhanany-Tamir, H., Taketo, M. M., Sommer, L., Krumlauf, R. and Tzahor, E.
- 3077** Gene regulatory networks and developmental plasticity in the early sea urchin embryo: alternative deployment of the skeletogenic gene regulatory network
Ettensohn, C. A., Kitazawa, C., Cheers, M. S., Leonard, J. D. and Sharma, T.
- 3089** Respective roles of the DRL receptor and its ligand WNT5 in *Drosophila* mushroom body development
Grillenzoni, N., Flandre, A., Lasbleiz, C. and Dura, J.-M.
- 3099** Haploinsufficiency after successive loss of signaling reveals a role for *ERECTA*-family genes in *Arabidopsis* ovule development
Pillitteri, L. J., Bemis, S. M., Shpak, E. D. and Torii, K. U.
- 3111** The *pax-3* gene is involved in vulva formation in *Pristionchus pacificus* and is a target of the Hox gene *lin-39*
Yi, B. and Sommer, R. J.
- 3121** *smedinx-11* is a planarian stem cell gap junction gene required for regeneration and homeostasis
Oviedo, N. J. and Levin, M.
- 3133** Regulation of skeletogenic differentiation in cranial dermal bone
Abzhanov, A., Rodda, S. J., McMahon, A. P. and Tabin, C. J.
- 3145** A role for the Myoblast city homologues Dock1 and Dock5 and the adaptor proteins Crk and Crk-like in zebrafish myoblast fusion
Moore, C. A., Parkin, C. A., Bidet, Y. and Ingham, P. W.
- 3155** Redefining the role of ectoderm in somitogenesis: a player in the formation of the fibronectin matrix of presomitic mesoderm
Rifes, P., Carvalho, L., Lopes, C., Andrade, R. P., Rodrigues, G., Palmeirim, I. and Thorsteinsdóttir, S.
- 3167** Otx1l, Otx2 and Irx1b establish and position the ZLI in the diencephalon
Scholpp, S., Foucher, I., Staudt, N., Peukert, D., Lumsden, A. and Houart, C.
- ## DEVELOPMENT AND DISEASE
- 3177** β -catenin/TCF/Lef controls a differentiation-associated transcriptional program in renal epithelial progenitors
Schmidt-Ott, K. M., Masckauchan, T. N. H., Chen, X., Hirsh, B. J., Sarkar, A., Yang, J., Paragas, N., Wallace, V. A., Dufort, D., Pavlidis, P., Jagla, B., Kitajewski, J. and Barasch, J.
- 3191** Mice lacking sister chromatid cohesion protein PDS5B exhibit developmental abnormalities reminiscent of Cornelia de Lange syndrome
Zhang, B., Jain, S., Song, H., Fu, M., Heuckeroth, R. O., Erlich, J. M., Jay, P. Y. and Milbrandt, J.



A sagittal section of chick presomitic mesoderm (PSM), showing extensive fibronectin (green) distribution around the anterior PSM (DAPI, blue). Rifes et al. conclude that a fibronectin matrix is essential for somite formation.

Enzymatic treatments used to isolate PSM explants destroy this matrix, but when it remains intact, somites form, even in the absence of surrounding tissues. **See research article on p. 3155.**

3203 Neural plate morphogenesis during mouse neurulation is regulated by antagonism of Bmp signalling

Ybot-Gonzalez, P., Gaston-Massuet, C., Girdler, G., Klingensmith, J., Arkell, R., Greene, N. D. E. and Copp, A. J.

3213 Differences in neurogenic potential in floor plate cells along an anteroposterior location: midbrain dopaminergic neurons originate from mesencephalic floor plate cells

Ono, Y., Nakatani, T., Sakamoto, Y., Mizuhara, E., Minaki, Y., Kumai, M., Hamaguchi, A., Nishimura, M., Inoue, Y., Hayashi, H., Takahashi, J. and Imai, T.