



Cover: Confocal micrograph of a *Drosophila melanogaster* third instar larval brain. GFP (green) marks the expression pattern of *ey-Gal4* and is mainly detected in the optic lobes. The glial marker Repo is shown in red, whereas blue depicts nuclei stained with DAPI. See Research article by Fernández-Espartero et al. (dev162156).

INTERVIEW

The people behind the papers – Chaitanya Dingare and Virginie Lecaudey
dev173120

SPOTLIGHT

Exploring landscapes of brain morphogenesis with organoids
Jabaudon, D. and Lancaster, M.
dev172049

REVIEW

Left-right asymmetry in heart development and disease: forming the right loop
Desgrange, A., Le Garrec, J.-F. and Meilhac, S. M.
dev162776

STEM CELLS AND REGENERATION

Comparative genomic analysis of embryonic, lineage-converted and stem cell-derived motor neurons
Ichida, J. K., Staats, K. A., Davis-Dusenbery, B. N., Clement, K., Galloway, K. E., Babos, K. N., Shi, Y., Son, E. Y., Kiskinis, E., Atwater, N., Gu, H., Gnirke, A., Meissner, A. and Eggen, K.
dev168617

RESEARCH ARTICLES

Distinct *cis*-acting elements mediate targeting and clustering of *Drosophila* polar granule mRNAs
Eagle, W. V. I., Yeboah-Kordieh, D. K., Niepielko, M. G. and Gavis, E. R.
dev164657

The Hippo pathway effector Taz is required for cell morphogenesis and fertilization in zebrafish
Dingare, C., Niedzwetzki, A., Klemmt, P. A., Godbersen, S., Fuentes, R., Mullins, M. C. and Lecaudey, V.
dev167023

The Ric-8A/G α 13/FAK signalling cascade controls focal adhesion formation during neural crest cell migration in *Xenopus*
Toro-Tapia, G., Villaseca, S., Beyer, A., Roycroft, A., Marcellini, S., Mayor, R. and Torrejón, M.
dev164269

Hey2 regulates the size of the cardiac progenitor pool during vertebrate heart development
Gibb, N., Lazic, S., Yuan, X., Deshwar, A. R., Leslie, M., Wilson, M. D. and Scott, I. C.
dev167510

N-linked glycosylation restricts the function of Short gastrulation to bind and shuttle BMPs
Negreiros, E., Herszterg, S., Kang, K.-H., Câmara, A., Dias, W. B., Carneiro, K., Bier, E., Todeschini, A. R. and Araujo, H.
dev167338

Basal epithelial tissue folding is mediated by differential regulation of microtubules
Visetsouk, M. R., Falat, E. J., Garde, R. J., Wendlick, J. L. and Gutzman, J. H.
dev167031

TWE-PRIL reverse signalling suppresses sympathetic axon growth and tissue innervation
Howard, L., Wosnitzka, E., Okakpu, D., White, M. A., Wyatt, S. and Davies, A. M.
dev165936

Hedgehog signaling regulates cell motility and optic fissure and stalk formation during vertebrate eye morphogenesis
Gordon, H. B., Lusk, S., Carney, K. R., Wirick, E. O., Murray, B. F. and Kwan, K. M.
dev165068

Inhibition of cell fate repressors secures the differentiation of the touch receptor neurons of *Caenorhabditis elegans*
Zheng, C., Jin, F. Q., Trippe, B. L., Wu, J. and Chalfie, M.
dev168096

Vangl2-dependent regulation of membrane protrusions and directed migration requires a fibronectin extracellular matrix
Love, A. M., Prince, D. J. and Jessen, J. R.
dev165472

Prp8 regulates oncogene-induced hyperplastic growth in *Drosophila*
Fernández-Espartero, C. H., Rizzo, A., Fulford, A. D., Faló-Sanjuan, J., Goutte-Gattat, D. and Ribeiro, P. S.
dev162156

TECHNIQUES AND RESOURCES

ROSA26 reporter mouse lines and image analyses reveal distinct region-specific cell behaviors in the visceral endoderm
Abe, T., Kutsuna, N., Kiyonari, H., Furuta, Y. and Fujimori, T.
dev165852