



Cover: Fluorescent image of a whole E14.5 mouse embryo showing the three genetically labelled germ layers: neuroectoderm (green, Sox1-dependent Venus), mesoderm (red, brachury-dependent mCherry) and endoderm (cyan, Sox17-dependent mCerulean). See Research article by Serizawa et al. (dev174938)

INTERVIEW

The people behind the papers – Daniel Osório, Elaine Chan, Joana Saramago and Ana Carvalho
dev185371

OBITUARY

Suzanne Eaton (1959-2019)
Jülicher, F.
dev185538

PRIMER

Model systems for regeneration: *Hydra*
Vogg, M. C., Galliot, B. and Tsiairis, C. D.
dev177212

REVIEW

Axo-glial interdependence in peripheral nerve development
Fledrich, R., Kungl, T., Nave, K.-A. and Stassart, R. M.
dev151704

STEM CELLS AND REGENERATION

N-cadherin stabilises neural identity by dampening anti-neural signals
Punovuori, K., Migueles, R. P., Malaguti, M., Blin, G., Macleod, K. G., Carragher, N. O., Pieters, T., van Roy, F., Stemmler, M. P. and Lowell, S.
dev183269

CDK2 kinase activity is a regulator of male germ cell fate
Singh, P., Patel, R. K., Palmer, N., Grenier, J. K., Paduch, D., Kaldis, P., Grimson, A. and Schimenti, J. C.
dev180273

RESEARCH REPORTS

PLXNA1 and PLXNA3 cooperate to pattern the nasal axons that guide gonadotropin-releasing hormone neurons
Oleari, R., Caramello, A., Campinoti, S., Lettieri, A., Ioannou, E., Paganoni, A., Fantin, A., Cariboni, A. and Ruhrberg, C.
dev176461

Disruption of the pancreatic vasculature in zebrafish affects islet architecture and function
Mullapudi, S. T., Boezio, G. L. M., Rossi, A., Marass, M., Matsuoka, R. L., Matsuda, H., Helker, C. S. M., Yang, Y. H. C. and Stainier, D. Y. R.
dev173674

RESEARCH ARTICLES

Dynamics of Spaetzle morphogen shuttling in the *Drosophila* embryo shapes gastrulation patterning
Rahimi, N., Averbukh, I., Carmon, S., Schejter, E. D., Barkai, N. and Shilo, B.-Z.
dev181487

Temporospatial sonic hedgehog signalling is essential for neural crest-dependent patterning of the intrinsic tongue musculature
Okuhara, S., Birjandi, A. A., Adel Al-Lami, H., Sagai, T., Amano, T., Shiroishi, T., Xavier, G. M., Liu, K. J., Cobourne, M. T. and Iseki, S.
dev180075

Crosslinking activity of non-muscle myosin II is not sufficient for embryonic cytokinesis in *C. elegans*
Osório, D. S., Chan, F.-Y., Saramago, J., Leite, J., Silva, A. M., Sobral, A. F., Gassmann, R. and Carvalho, A. X.
dev179150

Regulation of nuclear-cytoplasmic partitioning by the *lin-28-lin-46* pathway reinforces microRNA repression of HBL-1 to confer robust cell-fate progression in *C. elegans*
Ilbay, O. and Ambros, V.
dev183111

GATA2 controls lymphatic endothelial cell junctional integrity and lymphovenous valve morphogenesis through *miR-126*
Mahamud, M. R., Geng, X., Ho, Y.-C., Cha, B., Kim, Y., Ma, J., Chen, L., Myers, G., Camper, S., Mustacich, D., Witte, M., Choi, D., Hong, Y.-K., Chen, H., Varshney, G., Engel, J. D., Wang, S., Kim, T.-H., Lim, K.-C. and Srinivasan, R. S.
dev184218

Endocrine and local signaling interact to regulate spermatogenesis in zebrafish: follicle-stimulating hormone, retinoic acid and androgens
Crespo, D., Assis, L. H. C., van de Kant, H. J. G., de Waard, S., Safian, D., Lemos, M. S., Bogerd, J. and Schulz, R. W.
dev178665

Three-dimensional live imaging of Atoh1 reveals the dynamics of hair cell induction and organization in the developing cochlea
Tateya, T., Sakamoto, S., Ishidate, F., Hirashima, T., Imayoshi, I. and Kageyama, R.
dev177881

TECHNIQUES AND RESOURCES

Developmental analyses of mouse embryos and adults using a non-overlapping tracing system for all three germ layers
Serizawa, T., Isotani, A., Matsumura, T., Nakanishi, K., Nonaka, S., Shibata, S., Ikawa, M. and Okano, H.
dev174938