



Cover: Newly differentiated fat bodies (green) with numerous lipid droplets (magenta; Nile Red) in the abdomen of a pharate adult fly (70–75 h after puparium formation at 25°C) labelled using a combination of a known fat body Gal4 driver and a novel Gal80 strain that efficiently labels fat tissues with a sheet-like architecture. Note that some axons are non-specifically labelled. See Research article by Tsuyama et al. (dev200815).

OBITUARY

Juan Modolell (1937-2023)

Ruiz-Gómez, M. and Campuzano, S.

dev201953

INTERVIEW

The people behind the papers – Zainab Afzal and Robb Krumlauf

dev201966

SPOTLIGHT

The brain on time: links between development and neurodegeneration

Shabani, K. and Hassan, B. A.

dev200397

REVIEW

Human embryo implantation

Muter, J., Lynch, V. J., McCoy, R. C. and Brosens, J. J.

dev201507

HUMAN DEVELOPMENT

Evidence implicating sequential commitment of the founder lineages in the human blastocyst by order of hypoblast gene activation

Corujo-Simon, E., Radley, A. H. and Nichols, J.

dev201522

STEM CELLS AND REGENERATION

Efficient and rapid fluorescent protein knock-in with universal donors in mouse embryonic stem cells

Shi, Y., Kopparapu, N., Ohler, L. and Dickinson, D. J.

dev201367

BMP4 triggers regulatory circuits specifying the cardiac mesoderm lineage

Tsaytler, P., Liu, J., Blaess, G., Schifferl, D., Veenvliet, J. V.,

Wittler, L., Timmermann, B., Herrmann, B. G. and

Koch, F.

dev201450

Progenitor-derived glia are required for spinal cord regeneration in zebrafish

Zhou, L., McAdow, A. R., Yamada, H., Burris, B., Klatt

Shaw, D., Oonk, K., Poss, K. D. and Mokalled, M. H.

dev201162

RESEARCH ARTICLES

Distinct hyperactive RAS/MAPK alleles converge on common GABAergic interneuron core programs

Knowles, S. J., Stafford, A. M., Zaman, T., Angara, K.,

Williams, M. R., Newbern, J. M. and Vogt, D.

dev201371

The impact of cell size on morphogen gradient precision

Adelmann, J. A., Vetter, R. and Iber, D.

dev201702

The exon junction complex component EIF4A3 is essential for mouse and human cortical progenitor mitosis and neurogenesis

Lupan, B. M., Solecki, R. A., Musso, C. M., Alsina, F. C. and

Silver, D. L.

dev201619

Esrry regulates nephron and ciliary development by controlling prostaglandin synthesis

Wesselman, H. M., Flores-Mireles, A. L., Bauer, A., Pei, L. and

Wingert, R. A.

dev201411

Cell-intrinsic and -extrinsic roles of the ESCRT-III subunit Shrub in abscission of *Drosophila* sensory organ precursors

Bruelle, C., Pinot, M., Daniel, E., Daudé, M., Mathieu, J. and

Le Borgne, R.

dev201409

Scleraxis-lineage cells are required for correct muscle patterning

Ono, Y., Schlesinger, S., Fukunaga, K., Yambe, S., Sato, T.,

Sasaki, T., Shukunami, C., Asahara, H. and Inui, M.

dev201101

Voltage-gated sodium channel activity mediates sea urchin larval skeletal patterning through spatial regulation of Wnt5 expression

Thomas, C. F., Hawkins, D. Y., Skidanova, V., Marrujo, S. R.,

Gibson, J., Ye, Z. and Bradham, C. A.

dev201460

Interplay of spermatogonial subpopulations during initial stages of spermatogenesis in adult primates

Capponi, C., Palazzoli, M., Di Persio, S., Fera, S., Spadetta, G.,

Franco, G., Wistuba, J., Schlatt, S., Neuhaus, N., de Rooij, D. and Vicini, E.

dev201430

Shared retinoic acid responsive enhancers coordinately regulate nascent transcription of *Hoxb* coding and non-coding RNAs in the developing mouse neural tube

Afzal, Z., Lange, J. J., Nolte, C., McKinney, S., Wood, C.,

Paulson, A., De Kumar, B., Unruh, J., Slaughter, B. D. and

Krumlauf, R.

dev201259

Female reproductive dormancy in *Drosophila* is regulated by DH31-producing neurons projecting into the corpus allatum

Kurogi, Y., Imura, E., Mizuno, Y., Hoshino, R., Nouzova, M.,

Matsuyama, S., Mizoguchi, A., Kondo, S., Tanimoto, H.,

Noriega, F. G. and Niwa, R.

dev201186

NHR-23 activity is necessary for *C. elegans* developmental progression and apical extracellular matrix structure and function

Johnson, L. C., Vo, A. A., Clancy, J. C., Myles, K. M.,

Pooranachithra, M., Aguilera, J., Levenson, M. T.,

Wohlenberg, C., Rechtsteiner, A., Ragle, J. M.,

Chisholm, A. D. and Ward, J. D.

dev201085

Regulation of anterior neurectoderm specification and differentiation by BMP signaling in ascidians

Roure, A., Chowdhury, R. and Darras, S.

dev201575

CHIP inhibits odontoblast differentiation through promoting DLX3 polyubiquitylation and degradation

Zheng, H., Zhang, X., Fu, J., Xue, Y., Chen, Z., Yang, G., Chen, Y., Chen, D. and Yuan, G.

dev200848

Dynamic *de novo* adipose tissue development during metamorphosis in *Drosophila melanogaster*

Tsuyama, T., Hayashi, Y., Komai, H., Shimono, K. and Uemura, T.

dev200815

Mesodermal FGF and BMP govern the sequential stages of zebrafish thyroid specification

Haerlingen, B., Opitz, R., Vandernoot, I., Molinaro, A., Shankar, M. P., Gillotay, P., Trubiroha, A. and Costagliola, S.

dev201023