



**Cover:** The surface of zebrafish retinal glia cells, called Müller glia, colour-coded by depth. Data were derived by processing *Tg(Tp1:VenusPEST)* transgenic reporter confocal images with the GliaMorph toolkit, a biomedical image analysis system that facilitates automatic extraction of 3D quantitative features of glia. See Research Article by Kugler et al. (dev201008).

## DEVELOPMENTAL TWISTS

The Italian Journey

**Mogami, T.**

dev201629

## INTERVIEWS

The people behind the papers – Beth Firulli and Anthony Firulli

dev201622

An interview with Christopher Wright

**Zenner, H. L.**

dev201553

## MEETING REVIEW

Embracing the diversity of model systems to deconstruct the basis of regeneration and tissue repair

**Amiel, A. R., Tsai, S. L. and Wehner, D.**

dev201579

## REVIEW

The role of Evi/Wntless in exporting Wnt proteins

**Wolf, L. and Boutros, M.**

dev201352

## RESEARCH ARTICLES

Successful therapeutic intervention in new mouse models of frizzled 2-associated congenital malformations

**Liegel, R. P., Michalski, M. N., Vaidya, S., Bittermann, E., Finnerty, E., Menke, C. A., Diegel, C. R., Zhong, Z. A., Williams, B. O. and Stottmann, R. W.**

dev201038

Single cell evaluation of endocardial *Hand2* gene regulatory networks reveals HAND2-dependent pathways that impact cardiac morphogenesis

**George, R. M., Firulli, B. A., Podicheti, R., Rusch, D. B., Mannion, B. J., Pennacchio, L. A., Osterwalder, M. and Firulli, A. B.**

dev201341

Contribution of vasculature to stem integrity in *Arabidopsis thaliana*

**Asaoka, M., Sakamoto, S., Gunji, S., Mitsuda, N., Tsukaya, H., Sawa, S., Hamant, O. and Ferjani, A.**

dev201156

*CNKSR2*, a downstream mediator of retinoic acid signaling, modulates the Ras/Raf/MEK pathway to regulate patterning and invagination of the chick forebrain roof plate

**Udaykumar, N., Zaidi, M. A. A., Rai, A. and Sen, J.**

dev200857

hnRNPH1 establishes Sertoli–germ cell crosstalk through cooperation with PTBP1 and AR, and is essential for male fertility in mice

**Feng, S., Wen, H., Liu, K., Xiong, M., Li, J., Gui, Y., Lv, C., Zhang, J., Ma, X., Wang, X. and Yuan, S.**

dev201040

Exploring generic principles of compartmentalization in a developmental *in vitro* model

**Gires, P.-Y., Thampi, M., Krauss, S. W. and Weiss, M.**

dev200851

Single-cell RNA-based phenotyping reveals a pivotal role of thyroid hormone receptor alpha for hypothalamic development

**Sreenivasan, V. K. A., Dore, R., Resch, J., Maier, J., Dietrich, C., Henck, J., Balachandran, S., Mittag, J. and Spielmann, M.**

dev201228

## TECHNIQUES AND RESOURCES

Cre recombinase microinjection for single-cell tracing and localised gene targeting

**Sendra, M., Hourcade, J. de D., Temiño, S., Sarabia, A. J., Ocaña, O. H., Domínguez, J. N. and Torres, M.**

dev201206

GliaMorph: a modular image analysis toolkit to quantify Müller glial cell morphology

**Kugler, E., Bravo, I., Durmishi, X., Marcotti, S., Beqiri, S., Carrington, A., Stramer, B., Mattar, P. and MacDonald, R. B.**

dev201008