



**Cover:** Induction of neurite extension after overexpression of wild-type neuroligin 3 (*NLGN3*) in GN11 cells. Human hemagglutinin (HA)-tagged *NLGN3* was expressed in the neuronal gonadotropin-releasing hormone (GnRH)-secreting mouse GN11 cell line. Cells were immunostained for HA (yellow) and phalloidin (purple) to, respectively, detect *NLGN3* and actin. Nuclei (cyan) were counterstained with DAPI. See article by Oleari et al. (dmm049996). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

## EDITORIAL

The Forest of Biologists – for biologists, for biology

**Moulton, O. C. and Freeman, M.**

dmm050178

## A MODEL FOR LIFE

Redefining tuberculosis: an interview with Lalita Ramakrishnan  
**Ramakrishnan, L.**

dmm050189

## PERSPECTIVE

Hacking hematopoiesis – emerging tools for examining variant effects

**Gundry, M. and Sankaran, V. G.**

dmm049857

## REVIEW

Translating non-coding genetic associations into a better understanding of immune-mediated disease

**Stankey, C. T. and Lee, J. C.**

dmm049790

## RESEARCH ARTICLES

A *Drosophila* chemical screen reveals synergistic effect of MEK and DGK $\alpha$  inhibition in Ras-driven cancer

**La Marca, J. E., Ely, R. W., Diepstraten, S. T., Burke, P., Kelly, G. L., Humbert, P. O. and Richardson, H. E.**

dmm049769

HuR modulation counteracts lipopolysaccharide response in murine macrophages

**Bonomo, I., Assoni, G., La Pietra, V., Canarutto, G., Facen, E., Donati, G., Zucal, C., Genovese, S., Micaelli, M., Pérez-Ràfols, A., Robbiati, S., Kontoyannis, D. L., De Matteo, M., Fragai, M., Seneci, P., Marinelli, L., Arosio, D., Piazza, S. and Provenzani, A.**

dmm050120

Autism-linked *NLGN3* is a key regulator of gonadotropin-releasing hormone deficiency

**Oleari, R., Lettieri, A., Manzini, S., Paganoni, A., André, V., Grazioli, P., Busnelli, M., Duminuco, P., Vitobello, A., Philippe, C., Bizaoui, V., Storr, H. L., Amoroso, F., Memi, F., Vezzoli, V., Massa, V., Scheiffele, P., Howard, S. R. and Cariboni, A.**

dmm049996

FZD2 regulates limb development by mediating  $\beta$ -catenin-dependent and -independent Wnt signaling pathways

**Zhu, X., Xu, M., Leu, N. A., Morrissey, E. E. and Millar, S. E.**

dmm049876

Dual mechanism underlying failure of neural tube closure in the *Zic2* mutant mouse

**Escuin, S., Raza-Knight, S. R., Savery, D., Gaston-Massuet, C., Galea, G. L., Greene, N. D. E. and Copp, A. J.**

dmm049858

Activated PI3K delta syndrome 1 mutations cause neutrophilia in zebrafish larvae

**Elworthy, S., Rutherford, H. A., Prajsnar, T. K., Hamilton, N. M., Vogt, K., Renshaw, S. A. and Condliffe, A. M.**

dmm049841

Impaired episodic-like memory in a mouse model of Alzheimer's disease is associated with hyperactivity in prefrontal–hippocampal regions

**Tan, S., Tong, W. H. and Vyas, A.**

dmm049945

A hepatoprotective role of peritumoral non-parenchymal cells in early liver tumorigenesis

**Tian, C., Li, L., Fan, L., Brown, A., Norris, E. J., Morrison, M., Glazer, E. S. and Zhu, L.**

dmm049750

## RESOURCE ARTICLES

*In vivo* quantitative high-throughput screening for drug discovery and comparative toxicology

**Dranchak, P. K., Oliphant, E., Queme, B., Lamy, L., Wang, Y., Huang, R., Xia, M., Tao, D. and Inglesse, J.**

dmm049863

Tellu – an object-detector algorithm for automatic classification of intestinal organoids

**Domènech-Moreno, E., Brandt, A., Lemmetyinen, T. T., Wartiovaara, L., Mäkelä, T. P. and Ollila, S.**

dmm049756

## FIRST PERSON

First person – John (Eddie) Edmund La Marca  
dmm050179

First person – Xuming Zhu  
dmm050160

First person – Patricia Dranchak  
dmm050157

First person – Sarah Escuin and Saba Raza-Knight  
dmm050105

First person – Sijie Tan and Wen Han Tong  
dmm050130

## CORRECTION

Correction: Temporal and spatially controlled APP transgene expression using Cre-dependent alleles

**Koller, E. J., Comstock, M., Bean, J. C., Escobedo Jr, G., Park, K.-W. and Jankowsky, J. L.**

dmm050136