



**Cover:** Representative image showing reduced intraepidermal nerve fibre density in the footpads of mice fed a high-fat diet as histological evidence of small sensory nerve fibre loss. UCHL1 (also known as PGP9.5)-positive fibres are shown in green; DAPI-stained nuclei are shown in blue. See article by Eid and Feldman (dmm049337). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

## EDITORIAL

What lies beyond 100 years of insulin

**Hooper, K. M.**

dmm049361

## A MODEL FOR LIFE

Celebrating 100 years of insulin with Dr Elizabeth Seaquist

**Seaquist, E.**

dmm049351

## PERSPECTIVES

Insulin at 100 years – is rebalancing its action key to fighting obesity-related disease?

**Brierley, G. V. and Semple, R. K.**

dmm049340

Advances in diet-induced rodent models of metabolically acquired peripheral neuropathy

**Eid, S. A. and Feldman, E. L.**

dmm049337

## RESEARCH ARTICLES

Reduction of oxidative stress suppresses poly-GR-mediated toxicity in zebrafish embryos

**Riemslagh, F. W., Verhagen, R. F. M., van der Toorn, E. C., Smits, D. J., Quint, W. H., van der Linde, H. C., van Ham, T. J. and Willemse, R.**

dmm049092

Prediction of biological age by morphological staging of sarcopenia in *Caenorhabditis elegans*

**Dhondt, I., Verschueren, C., Zečić, A., Loier, T., Braeckman, B. P. and De Vos, W. H.**

dmm049169

*TP53* loss initiates chromosomal instability in fallopian tube epithelial cells

**Broder, D., Tighe, A., Wangsa, D., Zong, D., Meyer, T. J., Wardenaar, R., Minshall, P., Hirsch, D., Heselmeyer-Haddad, K., Nelson, L., Spierings, D., McGrail, J. C., Cam, M., Nuszenzweig, A., Foijer, F., Ried, T. and Taylor, S. S.**

dmm049001

Cell death-inducing cytotoxicity in truncated KCNQ4 variants associated with DFNA2 hearing loss

**Kojima, T., Wasano, K., Takahashi, S. and Homma, K.**

dmm049015

Early manifestations and differential gene expression associated with photoreceptor degeneration in *Prom1*-deficient retina

**Kobayashi, Y., Watanabe, S., Ong, A. L. C., Shirai, M., Yamashiro, C., Ogata, T., Higashijima, F., Yoshimoto, T., Hayano, T., Asai, Y., Sasai, N. and Kimura, K.**

dmm048962

Elevated murine HB-EGF confers sensitivity to diphtheria toxin in EGFR-mutant lung adenocarcinoma

**Robles-Oteiza, C., Ayeni, D., Levy, S., Homer, R. J., Kaech, S. M. and Politi, K.**

dmm049072

Suppressing STAT3 activity protects the endothelial barrier from VEGF-mediated vascular permeability

**Wang, L., Astone, M., Alam, S. K., Zhu, Z., Pei, W., Frank, D. A., Burgess, S. M. and Hoeppner, L. H.**

dmm049029

Novel zebrafish polycystic kidney disease models reveal functions of the Hippo pathway in renal cystogenesis

**Ren, Z., Zhang, Z., Liu, T.-M. and Ge, W.**

dmm049027

## RESOURCE ARTICLE

A mouse model of hypoplastic left heart syndrome demonstrating left heart hypoplasia and retrograde aortic arch flow

**Rahman, A., DeYoung, T., Cahill, L. S., Yee, Y., Debebe, S. K., Botelho, O., Seed, M., Chaturvedi, R. R. and Sled, J. G.**

dmm049077

## FIRST PERSON

First person – Daniel Broder

dmm049319

First person – Yuka Kobayashi

dmm049369

First person – Li Wang

dmm049322