



Cover: Human colon epithelium, stained with phospho-SQSTM1 (p62; green) and DAPI (blue) to indicate correlation of SQSTM1 accumulation with autophagy status *in vivo*, as related to the Crohn's disease-specific ATG16L1 T300A single-nucleotide polymorphism. See article by Prins et al. (dmm047233). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

EDITORIAL

DMM Outstanding Paper Prize 2020 winner: Sarah Colijn
Hackett, R.
dmm049024

REVIEWS

The liver metastatic niche: modelling the extracellular matrix in metastasis
Drew, J. and Machesky, L. M.
dmm048801

miRNA interplay: mechanisms and consequences in cancer
Hill, M. and Tran, N.
dmm047662

RESEARCH ARTICLES

Automated *in vivo* drug screen in zebrafish identifies synapse-stabilising drugs with relevance to spinal muscular atrophy
Oprișoreanu, A.-M., Smith, H. L., Krix, S., Chaytor, H., Carragher, N. O., Gillingwater, T. H., Becker, C. G. and Becker, T.
dmm047761

Identification of fibronectin 1 as a candidate genetic modifier in a *Col4a1* mutant mouse model of Gould syndrome
Mao, M., Popli, T., Jeanne, M., Hoff, K., Sen, S. and Gould, D. B.
dmm048231

An *Fgfr3*-activating mutation in immature murine osteoblasts affects the appendicular and craniofacial skeleton
Biosse Duplan, M., Dambroise, E., Estibals, V., Veziers, J., Guicheux, J. and Legeai-Mallet, L.
dmm048272

Thiopurines correct the effects of autophagy impairment on intestinal healing – a potential role for ARHGAP18/RhoA
Prins, M. M. C., Giugliano, F. P., van Roest, M., van de Graaf, S. F. J., Koelink, P. J. and Wildenberg, M. E.
dmm047233

Joint development recovery on resumption of embryonic movement following paralysis

Rolfe, R. A., Scanlon O'Callaghan, D. and Murphy, P.
dmm048913

Sex differences in insulin resistance, but not peripheral neuropathy, in a diet-induced prediabetes mouse model

Elzinga, S. E., Savelieff, M. G., O'Brien, P. D., Mendelson, F. E., Hayes, J. M. and Feldman, E. L.
dmm048909

RESOURCE ARTICLES

Metabolomics and lipidomics in *Caenorhabditis elegans* using a single-sample preparation
Molenaars, M., Schomakers, B. V., Elfrink, H. L., Gao, A. W., Vervaart, M. A. T., Pras-Raves, M. L., Luyf, A. C., Smith, R. L., Sterken, M. G., Kammenga, J. E., van Kampen, A. H. C., Janssens, G. E., Vaz, F. M., van Weeghel, M. and Houtkooper, R. H.
dmm047746

High-dimensional immunotyping of tumors grown in obese and non-obese mice
Wogsland, C. E., Lien, H. E., Pedersen, L., Hanjra, P., Grondal, S. M., Brekken, R. A., Lorens, J. B. and Halberg, N.
dmm048977

FIRST PERSON

First person – Marte Molenaars and Bauke Schomakers
dmm049009

First person – Rebecca Rolfe
dmm049040

First person – Sarah Elzinga
dmm049033