



Cover: Testis from a heterozygous *Ccdc151-lacZ* mouse stained with X-gal/FeCN. The *Ccdc151* gene is important for ciliary motility, and is expressed in testicular seminiferous tubules. *Ccdc151* plays critical role in spermatogenesis: the authors show that, in the mouse model of primary ciliary dyskinesia disease, homozygous deletion of *Ccdc151* in the germ line leads to azoospermia, while conditional deletion of *Ccdc151* in adult animals results in abnormal sperm counts and defective sperm motility. See article by Chiani et al. (dmm038489). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

EDITORIAL

Disease Models & Mechanisms in the Age of Big Data
Hatzopoulos, A. K.
dmm041699

FIRST PERSON

First person – Tiantian Ji and Lina Zhang
dmm041798

First person – Nicoleta Baxan
dmm041681

First person – Eileen Lynch
dmm041640

First person – Ling-shiang Chuang
dmm041624

First person – Martin Crivello and Marion Hogg
dmm041731

First person – Francesco Chiani and Tiziana Orsini
dmm041442

REVIEWS

The expanding spectrum of neurological disorders of phosphoinositide metabolism
Volpatti, J. R., Al-Maawali, A., Smith, L., Al-Hashim, A., Brill, J. A. and Dowling, J. J.
dmm038174

The zebrafish subcortical social brain as a model for studying social behavior disorders
Geng, Y. and Peterson, R. T.
dmm039446

RESEARCH ARTICLES

Dynamic MAPK signaling activity underlies a transition from growth arrest to proliferation in *Drosophila scribble* mutant tumors
Ji, T., Zhang, L., Deng, M., Huang, S., Wang, Y., Pham, T. T., Smith, A. A., Sridhar, V., Cabernard, C., Wang, J. and Yan, Y.
dmm040147

Pramipexole prevents ischemic cell death via mitochondrial pathways in ischemic stroke
Andrabi, S. S., Ali, M., Tabassum, H., Parveen, S. and Parvez, S.
dmm033860

Mast cells enhance sterile inflammation in chronic nonbacterial osteomyelitis
Young, S., Sharma, N., Lee, J. H., Chitu, V., Neumeister, V., Sohr, E., Stanley, E. R., Hedrich, C. M. and Craig, A. W. B.
dmm040097

C9ORF72-related cellular pathology in skeletal myocytes derived from ALS-patient induced pluripotent stem cells
Lynch, E., Semrad, T., Belsito, V. S., FitzGibbons, C., Reilly, M., Hayakawa, K. and Suzuki, M.
dmm039552

Vascular regression precedes motor neuron loss in the FUS (1-359) ALS mouse model
Crivello, M., Hogg, M. C., Jirström, E., Halang, L., Woods, I., Rayner, M., Coughlan, K. S., Lewandowski, S. A. and Prehn, J. H. M.
dmm040238

Zebrafish modeling of intestinal injury, bacterial exposures and medications defines epithelial *in vivo* responses relevant to human inflammatory bowel disease
Chuang, L.-s., Morrison, J., Hsu, N.-y., Labrias, P. R., Nayar, S., Chen, E., Villaverde, N., Facey, J. A., Boschetti, G., Giri, M., Castillo-Martin, M., Thin, T. H., Sharma, Y., Chu, J. and Cho, J. H.
dmm037432

Mild maternal hyperglycemia in *INS*^{C93S} transgenic pigs causes impaired glucose tolerance and metabolic alterations in neonatal offspring
Renner, S., Martins, A. S., Streckel, E., Braun-Reichhart, C., Backman, M., Prehn, C., Klymiuk, N., Bähr, A., Blutke, A., Landbrecht-Schessl, C., Wünsch, A., Kessler, B., Kurome, M., Hinrichs, A., Koopmans, S.-J., Krebs, S., Kemter, E., Rathkolb, B., Nagashima, H., Blum, H., Ritzmann, M., Wanke, R., Aigner, B., Adamski, J., Hrabě de Angelis, M. and Wolf, E.
dmm039156

Next-generation RNA sequencing of FFPE subsections reveals highly conserved stromal reprogramming between canine and human mammary carcinoma
Amini, P., Nassiri, S., Ettlin, J., Malbon, A. and Markkanen, E.
dmm040444

Functional loss of *Ccdc151* leads to hydrocephalus in a mouse model of primary ciliary dyskinesia
Chiani, F., Orsini, T., Gambadoro, A., Pasquini, M., Putti, S., Cirilli, M., Ermakova, O. and Tocchini-Valentini, G. P.
dmm038489

RESOURCE ARTICLE

Characterization of acute TLR-7 agonist-induced hemorrhagic myocarditis in mice by multiparametric quantitative cardiac magnetic resonance imaging
Baxan, N., Papanikolaou, A., Salles-Crawley, I., Lota, A., Chowdhury, R., Dubois, O., Branca, J., Hasham, M. G., Rosenthal, N., Prasad, S. K., Zhao, L., Harding, S. E. and Sattler, S.
dmm040725