



**Cover:** The ciliary zonule, a network of radial fibers (red), projects from the folded surface of the ciliary epithelium and centers the lens of the eye (violet sphere) on the optical axis. See article by Jones et al. (dmm037283). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

## FIRST PERSON

First person – Piotr Soczewka  
dmm039016

## AT A GLANCE

Generating mouse models for biomedical research:  
technological advances

**Gurumurthy, C. B. and Lloyd, K. C. K.**  
dmm029462

## REVIEW

Transgenic and physiological mouse models give insights into  
different aspects of amyotrophic lateral sclerosis

**De Giorgio, F., Maduro, C., Fisher, E. M. C.  
and Acevedo-Arozena, A.**  
dmm037424

## RESEARCH ARTICLES

Yeast-model-based study identified myosin- and calcium-  
dependent calmodulin signalling as a potential target  
for drug intervention in chorea-acanthocytosis

**Soczewka, P., Kolakowski, D., Smaczynska-de Rooij, I.,  
Rzepnikowska, W., Ayscough, K. R., Kaminska, J.  
and Zoladek, T.**  
dmm036830

Targeted deletion of fibrillin-1 in the mouse eye results in ectopia  
lentis and other ocular phenotypes associated with Marfan  
syndrome

**Jones, W., Rodriguez, J. and Bassnett, S.**  
dmm037283

Modelling pancreatic  $\beta$ -cell inflammation in zebrafish  
identifies the natural product wedelolactone for human  
islet protection

**Delgadillo-Silva, L. F., Tsakmaki, A., Akhtar, N., Franklin, Z. J.,  
Konantz, J., Bewick, G. A. and Ninov, N.**  
dmm036004

An exonic splicing enhancer mutation in *DUOX2* causes aberrant  
alternative splicing and severe congenital hypothyroidism  
in Bama pigs

**Cao, C., Zhang, Y., Jia, Q., Wang, X., Zheng, Q., Zhang, H.,  
Song, R., Li, Y., Luo, A., Hong, Q., Qin, G., Yao, J., Zhang, N.,  
Wang, Y., Wang, H., Zhou, Q. and Zhao, J.**  
dmm036616

The ubiquitin ligase HECTD1 promotes retinoic acid signaling  
required for development of the aortic arch

**Sugrue, K. F., Sarkar, A. A., Leatherbury, L. and Zohn, I. E.**  
dmm036491

Photoreceptor degeneration in microphthalmia (*Mitf*) mice: partial  
rescue by pigment epithelium-derived factor

**Chen, Y., Yang, J., Geng, H., Li, L., Li, J., Cheng, B., Ma, X.,  
Li, H. and Hou, L.**  
dmm035642

SUMOylation by SUMO2 is implicated in the degradation of  
misfolded ataxin-7 via RNF4 in SCA7 models

**Marinello, M., Werner, A., Giannone, M., Tahiri, K., Alves, S.,  
Tesson, C., den Dunnen, W., Seeler, J.-S., Brice, A.  
and Sittler, A.**  
dmm036145