



**Cover:** Confocal image of *Xenopus laevis* (frog) pronephros (orange) and nuclei (blue). *Xenopus* has a large single nephron – the functional unit of the kidney – on either side of their body. See article by Blackburn and Miller (dmm038604) to learn how *Xenopus* is a useful model to study kidney development and disease. Imaged by Alexandria T. M. Blackburn. Cover image is licensed under a Creative Commons Attribution 4.0 International license.

## FIRST PERSON

First person – Lauren Brill Skvarca and Hwa Han  
dmm039859

First person – Jessica Sharrock  
dmm039776

## SPECIAL ARTICLE

One hundred years of *Drosophila* cancer research: no longer in solitude  
**Villegas, S. N.**  
dmm039032

## REVIEW

Modeling congenital kidney diseases in *Xenopus laevis*  
**Blackburn, A. T. M. and Miller, R. K.**  
dmm038604

## RESEARCH ARTICLES

Role of ectodysplasin signalling in middle ear and nasal pathology in rat and mouse models of hypohidrotic ectodermal dysplasia  
**del-Pozo, J., MacIntyre, N., Azar, A., Headon, D., Schneider, P. and Cheeseman, M.**  
dmm037804

A novel pancreatic cancer model originated from transformation of acinar cells in adult tree shrew, a primate-like animal  
**Tu, Q., Yang, D., Zhang, X., Jia, X., An, S., Yan, L., Dai, H., Ma, Y., Tang, C., Tong, W., Hou, Z., Lv, L., Tan, J. and Zhao, X.**  
dmm038703

Enhancing regeneration after acute kidney injury by promoting cellular dedifferentiation in zebrafish  
**Brilli Skvarca, L., Han, H. I., Espiritu, E. B., Missinato, M. A., Rochon, E. R., McDaniels, M. D., Bais, A. S., Roman, B. L., Waxman, J. S., Watkins, S. C., Davidson, A. J., Tsang, M. and Hukriede, N. A.**  
dmm037390

Characterization of high- and low-risk hepatocellular adenomas by magnetic resonance imaging in an animal model of glycogen storage disease type 1A  
**Resaz, R., Rosa, F., Grillo, F., Basso, L., Segalerba, D., Puglisi, A., Bosco, M. C., Mastracci, L., Neumaier, C. E., Varesio, L. and Eva, A.**  
dmm038026

*fs(1)h* controls metabolic and immune function and enhances survival via AKT and FOXO in *Drosophila*  
**Sharrock, J., Estacio-Gomez, A., Jacobson, J., Kierdorf, K., Southall, T. D. and Dionne, M. S.**  
dmm037259

## RESOURCE ARTICLES

CRISPR/Cas9-generated mouse model of Duchenne muscular dystrophy recapitulating a newly identified large 430 kb deletion in the human *DMD* gene  
**Egorova, T. V., Zotova, E. D., Reshetov, D. A., Polikarpova, A. V., Vassilieva, S. G., Vlodayets, D. V., Gavrilov, A. A., Ulianov, S. V., Buchman, V. L. and Deykin, A. V.**  
dmm037655

Recapitulating Parkinson's disease pathology in a three-dimensional human neural cell culture model  
**Taylor-Whiteley, T. R., Le Maitre, C. L., Duce, J. A., Dalton, C. F. and Smith, D. P.**  
dmm038042