



Cover: Immunofluorescent staining of human salivary-gland-derived organoids. Acinar cell markers, aquaporin 5 (green) and keratin 18 (red), are positive in inner cells of the organoids. Nuclei are stained with DAPI (blue). See article by Yoshimoto et al. (dmm045054). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

EDITORIAL

Travel grants and how to use them (when there's no travel)

Nicholson, A. and Hmeljak, J.

dmm046987

FIRST PERSON

First person – Shohei Yoshimoto

dmm047068

First person – Patricia Shaw

dmm047076

First person – Jelmer Hoeksma

dmm047282

CLINICAL PUZZLE

Fibrodysplasia ossificans progressiva: current concepts from bench to bedside

Kaliya-Perumal, A.-K., Carney, T. J. and Ingham, P. W.

dmm046441

SPECIAL ARTICLE

Cell and animal models of SARS-CoV-2 pathogenesis and immunity

Leist, S. R., Schäfer, A. and Martinez, D. R.

dmm046581

REVIEW

Neonatal and infant immunity for tuberculosis vaccine development: importance of age-matched animal models

Ramos, L., Lunney, J. K. and Gonzalez-Juarrero, M.

dmm045740

RESEARCH ARTICLES

Pre-existing antibody-mediated adverse effects prevent the clinical development of a bacterial anti-inflammatory protein

Tromp, A. T., Zhao, Y., Jongerius, I., Heezius, E. C. J. M., Abrial, P., Ruyken, M., van Strijp, J. A. G., de Haas, C. J. C., Spaan, A. N., van Kessel, K. P. M., Henry, T. and Haas, P.-J. A.

dmm045534

Inhibition of Alk signaling promotes the induction of human salivary-gland-derived organoids

Yoshimoto, S., Yoshizumi, J., Anzai, H., Morishita, K., Okamura, K., Hiraki, A. and Hashimoto, S.

dmm045054

Disturbed nitric oxide signalling gives rise to congenital bicuspid aortic valve and aortopathy

Peterson, J. C., Wisse, L. J., Wirokromo, V., van Herwaarden, T., Smits, A. M., Gittenberger-de Groot, A. C., Goumans, M.-J. T. H., VanMunsteren, J. C., Jongbloed, M. R. M. and DeRuiter, M. C.

dmm044990

Pathological evaluation of rats carrying in-frame mutations in the dystrophin gene: a new model of Becker muscular dystrophy

Teramoto, N., Sugihara, H., Yamanouchi, K., Nakamura, K., Kimura, K., Okano, T., Shiga, T., Shirakawa, T., Matsuo, M., Nagata, T., Daimon, M., Matsuwaki, T. and Nishihara, M.

dmm044701

Longitudinal neuroanatomical and behavioral analyses show phenotypic drift and variability in the Ts65Dn mouse model of Down syndrome

Shaw, P. R., Klein, J. A., Aziz, N. M. and Haydar, T. F.

dmm046243

Cercosporamide inhibits bone morphogenetic protein receptor type I kinase activity in zebrafish

Hoeksma, J., van der Zon, G. C. M., ten Dijke, P. and den Hertog, J.

dmm045971

A novel mouse model of Duchenne muscular dystrophy carrying a multi-exonic *Dmd* deletion exhibits progressive muscular dystrophy and early-onset cardiomyopathy

Wong, T. W. Y., Ahmed, A., Yang, G., Maino, E., Steiman, S., Hyatt, E., Chan, P., Lindsay, K., Wong, N., Golebiowski, D., Schneider, J., Delgado-Olgún, P., Ivakine, E. A. and Cohn, R. D.

dmm045369

Rabphilin involvement in filtration and molecular uptake in *Drosophila* nephrocytes suggests a similar role in human podocytes

Selma-Soriano, E., Llamusi, B., Fernández-Costa, J. M., Ozimski, L. L., Artero, R. and Redón, J.

dmm041509

Circulating exosomal microRNAs as potential biomarkers of hepatic injury and inflammation in a murine model of glycogen storage disease type 1a

Resaz, R., Cangeli, D., Morini, M., Segalerba, D., Mastracci, L., Grillo, F., Bosco, M. C., Bottino, C., Colombo, I. and Eva, A.

dmm043364