



**Cover:** An artistic rendition illustrating the progressive nature of the myopathic changes observed upon SIL1 disruption in a mouse model, radiating outward from the endoplasmic reticulum and eventually impinging upon widespread cellular proteostasis. SIL1 is a cofactor for the resident endoplasmic reticulum Hsp70 chaperone, BiP, which plays a key role in maintaining proteostasis in this organelle. Mutations in SIL1 cause Marinesco-Sjögren syndrome, a multisystem, autosomal recessive disorder. Progressive myopathy is a cardinal feature of this disease. Concept: Viraj P. Ichhaporia, Joshua Stokes and Linda M. Hendershot. Electron microscopy image courtesy of: Sharon Frase and Linda Horner. See article by Ichhaporia et al. (dmm033043). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

## EDITORIAL

United states of amnesia: rescuing memory loss from diverse conditions

**Ortega-de San Luis, C. and Ryan, T. J.**

dmm035055

## AT A GLANCE

Molecular biomarkers of Alzheimer's disease: progress and prospects

**Lashley, T., Schott, J. M., Weston, P., Murray, C. E., Wellington, H., Keshavan, A., Foti, S. C., Foiani, M., Toombs, J., Rohrer, J. D., Heslegrave, A. and Zetterberg, H.**

dmm031781

## REVIEW

A guide to using functional magnetic resonance imaging to study Alzheimer's disease in animal models

**Asaad, M. and Lee, J. H.**

dmm031724

## RESEARCH ARTICLES

Functional and genomic characterisation of a xenograft model system for the study of metastasis in triple-negative breast cancer

**Johnstone, C. N., Pattison, A. D., Gorrington, K. L., Harrison, P. F., Powell, D. R., Lock, P., Baloyan, D., Ernst, M., Stewart, A. G., Beilharz, T. H. and Anderson, R. L.**

dmm032250

Bone marrow transplantation corrects haemolytic anaemia in a novel ENU mutagenesis mouse model of TPI deficiency

**Conway, A. J., Brown, F. C., Hortle, E. J., Burgio, G., Foote, S. J., Morton, C. J., Jane, S. M. and Curtis, D. J.**

dmm034678

Bruno-3 regulates sarcomere component expression and contributes to muscle phenotypes of myotonic dystrophy type 1

**Picchio, L., Legagneux, V., Deschamps, S., Renaud, Y., Chauveau, S., Paillard, L. and Jagla, K.**

dmm031849

Hamartoma-like lesions in the mouse retina: an animal model of *Pten* hamartoma tumour syndrome

**Tachibana, N., Touahri, Y., Dixit, R., David, L. A., Adnani, L., Cantrup, R., Aavani, T., Wong, R. O., Logan, C., Kurek, K. C. and Schuurmans, C.**

dmm031005

Tumor xenograft modeling identifies an association between TCF4 loss and breast cancer chemoresistance

**Ruiz de Garibay, G., Mateo, F., Stradella, A., Valdés-Mas, R., Palomero, L., Serra-Musach, J., Puente, D. A., Díaz-Navarro, A., Vargas-Parra, G., Tornero, E., Morilla, I., Farré, L., Martínez-Iniesta, M., Herranz, C., McCormack, E., Vidal, A., Petit, A., Soler, T., Lázaro, C., Puente, X. S., Villanueva, A. and Pujana, M. A.**

dmm032292

SIL1, the endoplasmic-reticulum-localized BiP co-chaperone, plays a crucial role in maintaining skeletal muscle proteostasis and physiology

**Ichhaporia, V. P., Kim, J., Kavdia, K., Vogel, P., Horner, L., Frase, S. and Hendershot, L. M.**

dmm033043

*Drosophila* Insulin receptor regulates the persistence of injury-induced nociceptive sensitization

**Im, S. H., Patel, A. A., Cox, D. N. and Galko, M. J.**

dmm034231

## CORRECTION

Correction: Daunorubicin reduces MBNL1 sequestration caused by CUG-repeat expansion and rescues cardiac dysfunctions in a *Drosophila* model of myotonic dystrophy (doi: 10.1242/dmm.032557)

dmm035501