



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