



Cover: *Drosophila* larvae treated with the microtubule-stabilizing agent paclitaxel experience dose-dependent sensory dysfunction, providing a robust and amenable model for studying mechanisms and modulators of chemotherapy-induced peripheral neuropathy and pain. In this model, paclitaxel disrupts microtubule-associated Futsch/MAP1B (cyan) in peripheral sensory dendrites, and leads to aberrant dendrite branch stability and density (red) compared to vehicle-treated control (grey). See article by Brazill et al. (dmm032938). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

EDITORIAL

Tracking progress: an update on animal models for Duchenne muscular dystrophy

Wells, D. J.
dmm035774

REVIEWS

Using *Drosophila* to study mechanisms of hereditary hearing loss

Li, T., Bellen, H. J. and Groves, A. K.
dmm031492

Collagen VI in healthy and diseased nervous system

Gregorio, I., Braghetta, P., Bonaldo, P. and Cescon, M.
dmm032946

RESEARCH ARTICLES

RNaseT2 knockout rats exhibit hippocampal neuropathology and deficits in memory

Sinkevicius, K. W., Morrison, T. R., Kulkarni, P., Caffrey Cagliostro, M. K., Iriah, S., Malmberg, S., Sabrick, J., Honeycutt, J. A., Askew, K. L., Trivedi, M. and Ferris, C. F.
dmm032631

Adding a temporal dimension to the study of Friedreich's ataxia: the effect of frataxin overexpression in a human cell model

Vannocci, T., Notario Manzano, R., Beccalli, O., Bettgazzi, B., Grohovaz, F., Cinque, G., de Riso, A., Quaroni, L., Codazzi, F. and Pastore, A.
dmm032706

Intramyocardial angiogenetic stem cells and epicardial erythropoietin save the acute ischemic heart

Klopsch, C., Skorska, A., Ludwig, M., Lemcke, H., Maass, G., Gaebel, R., Beyer, M., Lux, C., Toelk, A., Müller, K., Maschmeier, C., Rohde, S., Mela, P., Müller-Hilke, B., Jockenhoevel, S., Vollmar, B., Jaster, R., David, R. and Steinhoff, G.
dmm033282

Genetic and cellular sensitivity of *Caenorhabditis elegans* to the chemotherapeutic agent cisplatin

García-Rodríguez, F. J., Martínez-Fernández, C., Brena, D., Kukhtar, D., Serrat, X., Nadal, E., Boxem, M., Honnen, S., Miranda-Vizuete, A., Villanueva, A. and Cerón, J.
dmm033506

Cacna1c haploinsufficiency leads to pro-social 50-kHz ultrasonic communication deficits in rats

Kisko, T. M., Braun, M. D., Michels, S., Witt, S. H., Rietschel, M., Culmsee, C., Schwarting, R. K. W. and Wöhr, M.
dmm034116

Subchondral drilling for articular cartilage repair: a systematic review of translational research

Gao, L., Goebel, L. K. H., Orth, P., Cucchiari, M. and Madry, H.
dmm034280

A comprehensive study of calcific aortic stenosis: from rabbit to human samples

Mourino-Alvarez, L., Baldan-Martin, M., Sastre-Oliva, T., Martin-Lorenzo, M., Maroto, A. S., Corbacho-Alonso, N., Rincon, R., Martin-Rojas, T., Lopez-Almodovar, L. F., Alvarez-Llamas, G., Vivanco, F., Padial, L. R., de la Cuesta, F. and Barderas, M. G.
dmm033423

Epigenetic regulators Rbbp4 and Hdac1 are overexpressed in a zebrafish model of RB1 embryonal brain tumor, and are required for neural progenitor survival and proliferation

Schultz, L. E., Haltom, J. A., Almeida, M. P., Wierson, W. A., Solin, S. L., Weiss, T. J., Helmer, J. A., Sandquist, E. J., Shive, H. R. and McGrail, M.
dmm034124

Increased FGF8 signaling promotes chondrogenic rather than osteogenic development in the embryonic skull

Schmidt, L., Taiyab, A., Melvin, V. S., Jones, K. L. and Williams, T.
dmm031526

Etiology and treatment of adrenoleukodystrophy: new insights from *Drosophila*

Gordon, H. B., Valdez, L. and Letsou, A.
dmm031286

Impaired β -cell glucokinase as an underlying mechanism in diet-induced diabetes

Lu, B., Kurmi, K., Munoz-Gomez, M., Jacobus Ambuludi, E. J., Tonne, J. M., Rakshit, K., Hitosugi, T., Kudva, Y. C., Matveyenko, A. V. and Ikeda, Y.
dmm033316

Lifespan analysis of brain development, gene expression and behavioral phenotypes in the Ts1Cje, Ts65Dn and Dp(16)1Yey mouse models of Down syndrome

Aziz, N. M., Guedj, F., Pennings, J. L. A., Olmos-Serrano, J. L., Siegel, A., Haydar, T. F. and Bianchi, D. W.
dmm031013

Nmnat mitigates sensory dysfunction in a *Drosophila* model of paclitaxel-induced peripheral neuropathy

Brazill, J. M., Cruz, B., Zhu, Y. and Zhai, R. G.
dmm032938

A novel rabbit model of Duchenne muscular dystrophy generated by CRISPR/Cas9

Sui, T., Lau, Y. S., Liu, D., Liu, T., Xu, L., Gao, Y., Lai, L., Li, Z. and Han, R.
dmm032201