



Cover: Ventral view of a *pheta1/2* double mutant (*dKO*) zebrafish larva, immunostained at 4 dpf with type II collagen (green) and DAPI (blue). Type II collagen (*Col2*, encoded by *col2a1a*) is one of the earliest markers of chondrocyte differentiation for which expression is decreased at later stages of development. *pheta1/2 dKO* animals exhibited a striking increase in *Col2* expression compared to wild-type controls, providing evidence that *pheta1/2*, a key pair of endocytic adaptor proteins, play an important role in chondrocyte differentiation. See article by Ates et al. (dmm041913). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

FIRST PERSON

First person – Sukalp Muzumdar
dmm045146

First person – Kristin Ates
dmm044818

First person – Anna Gray
dmm044875

REVIEWS

Building bridges, not walls: spinal cord regeneration in zebrafish
Cigliola, V., Becker, C. J. and Poss, K. D.
dmm044131

Modeling human epigenetic disorders in mice: Beckwith-Wiedemann syndrome and Silver-Russell syndrome
Chang, S. and Bartolomei, M. S.
dmm044123

RESEARCH ARTICLES

Genetic activation of Nrf2 reduces cutaneous symptoms in a murine model of Netherton syndrome
Muzumdar, S., Koch, M., Hiebert, H., Bapst, A., Gravina, A., Bloch, W., Beer, H.-D., Werner, S. and Schäfer, M.
dmm042648

Loss of PRSS56 function leads to ocular angle defects and increased susceptibility to high intraocular pressure
Labelle-Dumais, C., Pyatla, G., Paylakhi, S., Tolman, N. G., Hameed, S., Seymens, Y., Dang, E., Mandal, A. K., Senthil, S., Khanna, R. C., Kabra, M., Kaur, I., John, S. W. M., Chakrabarti, S. and Nair, K. S.
dmm042853

Activated pathogenic Th17 lymphocytes induce hypertension following high-fructose intake in Dahl salt-sensitive but not Dahl salt-resistant rats
Lee, E., Kim, N., Kang, J., Yoon, S., Lee, H.-A., Jung, H., Kim, S.-H. and Kim, I.
dmm044107

Deficiency in the endocytic adaptor proteins PHETA1/2 impairs renal and craniofacial development
Ates, K. M., Wang, T., Moreland, T., Veeranan-Karmegam, R., Ma, M., Jeter, C., Anand, P., Wenzel, W., Kim, H.-G., Wolfe, L. A., Stephen, J., Adams, D. R., Markello, T., Tifft, C. J., Settlage, R., Gahl, W. A., Gonsalvez, G. B., Malicdan, M. C., Flanagan-Steet, H. and Pan, Y. A.
dmm041913

Deterioration of muscle force and contractile characteristics are early pathological events in spinal and bulbar muscular atrophy mice

Gray, A. L., Annan, L., Dick, J. R. T., La Spada, A. R., Hanna, M. G., Greensmith, L. and Malik, B.
dmm042424

Temperature-sensitive spinal muscular atrophy-causing point mutations lead to SMN instability, locomotor defects and premature lethality in *Drosophila*

Raimer, A. C., Singh, S. S., Edula, M. R., Paris-Davila, T., Vandadi, V., Spring, A. M. and Matera, A. G.
dmm043307

Diverse dystonin gene mutations cause distinct patterns of *Dst* isoform deficiency and phenotypic heterogeneity in *Dystonia musculorum* mice

Yoshioka, N., Kabata, Y., Kuriyama, M., Bizen, N., Zhou, L., Tran, D. M., Yano, M., Yoshiki, A., Ushiki, T., Sproule, T. J., Abe, R. and Takebayashi, H.
dmm041608

Genetic predisposition for increased red blood cell distribution width is an early risk factor for cardiovascular and renal comorbidities

Cheng, X., Mell, B., Alimadadi, A., Galla, S., McCarthy, C. G., Chakraborty, S., Basrur, V. and Joe, B.
dmm044081

The transcription factor Nurr1 is upregulated in amyotrophic lateral sclerosis patients and SOD1-G93A mice
Valsecchi, V., Boido, M., Montarolo, F., Guglielmo, M., Perga, S., Martire, S., Cutrupi, S., Iannello, A., Gionchiglia, N., Signorino, E., Calvo, A., Fuda, G., Chiò, A., Bertolotto, A. and Vercelli, A.
dmm043513

CORRECTION

Correction: Vascular regression precedes motor neuron loss in the FUS (1-359) ALS mouse model
Crivello, M., Hogg, M. C., Jirström, E., Halang, L., Woods, I., Rayner, M., Coughlan, K. S., Lewandowski, S. A. and Prehn, J. H. M.
dmm045310