



Cover: Omphalocele phenotype of a *Six4* and *Six5* double-deficient mouse fetus at E18.5. The fetus exhibits an abdominal body wall closure defect with protrusion of the liver and intestine, reproducing large middle-type omphalocele in humans. See article by Takahashi et al. (dmm034611). Cover image is licensed under a Creative Commons Attribution 4.0 International license.

EDITORIAL

DMM community consultation: help us plan for the next 10 years
Hackett, R. (Managing Editor) and Moulton, O. C. (Publisher)
dmm037507

Zebrafish knock-ins swim into the mainstream
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AT A GLANCE

Immune regulation of metastasis: mechanistic insights and therapeutic opportunities
Blomberg, O. S., Spagnuolo, L. and de Visser, K. E.
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SPECIAL ARTICLE

Living inside the box: environmental effects on mouse models of human disease
Sundberg, J. P. and Schofield, P. N.
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RESEARCH ARTICLES

Mice doubly deficient in *Six4* and *Six5* show ventral body wall defects reproducing human omphalocele
Takahashi, M., Tamura, M., Sato, S. and Kawakami, K.
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A transgenic minipig model of Huntington's disease shows early signs of behavioral and molecular pathologies
Askeland, G., Rodinova, M., Štufková, H., Dosoudilova, Z., Baxa, M., Smatlikova, P., Bohuslavova, B., Klempir, J., Nguyen, T. D., Kuśnierczyk, A., Bjørås, M., Klungland, A., Hansikova, H., Ellederova, Z. and Eide, L.
dmm035949

One month of hyperglycemia alters spectral responses of the zebrafish photopic electroretinogram
Tanvir, Z., Nelson, R. F., DeCicco-Skinner, K. and Connaughton, V. P.
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Bicuspid aortic valve formation: *Nos3* mutation leads to abnormal lineage patterning of neural crest cells and the second heart field
Peterson, J. C., Chughtai, M., Wisse, L. J., Gittenberger-de Groot, A. C., Feng, Q., Goumans, M.-J. T. H., VanMunsteren, J. C., Jongbloed, M. R. M. and DeRuiter, M. C.
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Functional testing of a human *PBX3* variant in zebrafish reveals a potential modifier role in congenital heart defects
Farr, G. H., III, Imani, K., Pouv, D. and Maves, L.
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Effective CRISPR/Cas9-based nucleotide editing in zebrafish to model human genetic cardiovascular disorders
Tessadori, F., Roessler, H. I., Savelberg, S. M. C., Chocron, S., Kamel, S. M., Duran, K. J., van Haelst, M. M., van Haften, G. and Bakkers, J.
dmm035469

CRISPR/Cas9-mediated homology-directed repair by ssODNs in zebrafish induces complex mutational patterns resulting from genomic integration of repair-template fragments
Boel, A., De Saffel, H., Steyaert, W., Callewaert, B., De Paepe, A., Coucke, P. J. and Willaert, A.
dmm035352

17-DMAG regulates p21 expression to induce chondrogenesis *in vitro* and *in vivo*
Bertram, K. L., Narendran, N., Tailor, P., Jablonski, C., Leonard, C., Irvine, E., Hess, R., Masson, A. O., Abubacker, S., Rinker, K., Biernaskie, J., Yates, R. M., Salo, P., Narendran, A. and Krawetz, R. J.
dmm033662

A severe atherosclerosis mouse model on the resistant NOD background
Wang, X., Huang, R., Zhang, L., Li, S., Luo, J., Gu, Y., Chen, Z., Zheng, Q., Chao, T., Zheng, W., Qi, X., Wang, L., Wen, Y., Liang, Y. and Lu, L.
dmm033852

ENPP1 enzyme replacement therapy improves blood pressure and cardiovascular function in a mouse model of generalized arterial calcification of infancy
Khan, T., Sinkevicius, K. W., Vong, S., Avakian, A., Leavitt, M. C., Malanson, H., Marozsan, A. and Askew, K. L.
dmm035691

RESOURCE ARTICLE

Apolipoprotein E deficiency accelerates atherosclerosis development in miniature pigs
Fang, B., Ren, X., Wang, Y., Li, Z., Zhao, L., Zhang, M., Li, C., Zhang, Z., Chen, L., Li, X., Liu, J., Xiong, Q., Zhang, L., Jin, Y., Liu, X., Li, L., Wei, H., Yang, H., Li, R. and Dai, Y.
dmm036632