



**Cover:** Confocal image of an E10.5 *Tbx1* mutant embryo, whole-mount immunostained for neurofilament (red) and co-stained with PECAM (green) to provide embryonic context. Note the fusion of cranial nerve ganglia IX and X that is characteristic of the *LgDel* and *Tbx1* mouse models of 22q11 deletion syndrome. See article by Karpinski et al. on page 245.

## EDITORIAL

- 171** Negativity towards negative results: a discussion of the disconnect between scientific worth and scientific culture  
**Matosin, N., Frank, E., Engel, M., Lum, J. S. and Newell, K. A.**

## COMMUNITY NEWS

- 175** Pioneering new models to drive innovation in R&D and commercialization for breast cancer inventions

## CORRESPONDENCE

- 177** Remarks on the article of Hadas et al.: Transmission of chimeric HIV by mating in conventional mice: prevention by pre-exposure antiretroviral therapy and reduced susceptibility during estrus  
**Anderson, D. J. and Politch, J. A.**

- 178** Response to ‘Remarks on the article of Hadas et al.: Transmission of chimeric HIV by mating in conventional mice: prevention by pre-exposure antiretroviral therapy and reduced susceptibility during estrus’  
**Potash, M. J., Hadas, E. and Volsky, D. J.**

## REVIEWS

- 181** Beyond the zebrafish: diverse fish species for modeling human disease  
**Schartl, M.**

- 193** Diverse functions of matrix metalloproteinases during fibrosis  
**Giannandrea, M. and Parks, W. C.**

## RESEARCH ARTICLES

- 205** Acute metabolic decompensation due to influenza in a mouse model of ornithine transcarbamylase deficiency  
**McGuire, P. J., Tarasenko, T. N., Wang, T., Levy, E., Zerfas, P. M., Moran, T., Lee, H. S., Bequette, B. J. and Diaz, G. A.**

- 215** Hypoxia promotes liver-stage malaria infection in primary human hepatocytes *in vitro*  
**Ng, S., March, S., Galstian, A., Hanson, K., Carvalho, T., Mota, M. M. and Bhatia, S. N.**

- 225** Luminal epithelium in endometrial fragments affects their vascularization, growth and morphological development into endometriosis-like lesions in mice  
**Feng, D., Menger, M. D., Wang, H. and Laschke, M. W.**

- 233** TorsinA rescues ER-associated stress and locomotive defects in *C. elegans* models of ALS

**Thompson, M. L., Chen, P., Yan, X., Kim, H., Borom, A. R., Roberts, N. B., Caldwell, K. A. and Caldwell, G. A.**

- 245** Dysphagia and disrupted cranial nerve development in a mouse model of DiGeorge (22q11) deletion syndrome  
**Karpinski, B. A., Maynard, T. M., Fralish, M. S., Nuwayhid, S., Zohn, I. E., Moody, S. A. and LaMantia, A.-S.**

## RESEARCH REPORTS

- 259** Zebrafish tissue injury causes upregulation of interleukin-1 and caspase-dependent amplification of the inflammatory response  
**Ogryzko, N. V., Hoggett, E. E., Solaymani-Kohal, S., Tazzyman, S., Chico, T. J. A., Renshaw, S. A. and Wilson, H. L.**

- 265** Zebrafish *etv7* regulates red blood cell development through the cholesterol synthesis pathway  
**Quintana, A. M., Picchione, F., Klein Geltink, R. I., Taylor, M. R. and Grosveld, G. C.**

## RESOURCE ARTICLES

- 271** Screen for abnormal mitochondrial phenotypes in mouse embryonic stem cells identifies a model for succinyl-CoA ligase deficiency and mtDNA depletion  
**Donti, T. R., Stromberger, C., Ge, M., Eldin, K. W., Craigen, W. J. and Graham, B. H.**

- 281** Modeling *Mycobacterium tuberculosis* early granuloma formation in experimental human lung tissue  
**Parasa, V. R., Rahman, M. J., Ngyuen Hoang, A. T., Svensson, M., Brighenti, S. and Lerm, M.**

- 289** Impaired embryonic motility in *dusp27* mutants reveals a developmental defect in myofibril structure  
**Fero, K., Bergeron, S. A., Horstick, E. J., Codore, H., Li, G. H., Ono, F., Dowling, J. J. and Burgess, H. A.**

- 299** A tissue-engineered humanized xenograft model of human breast cancer metastasis to bone  
**Thibaudeau, L., Taubenberger, A. V., Holzapfel, B. M., Quent, V. M., Fuehrmann, T., Hesami, P., Brown, T. D., Dalton, P. D., Power, C. A., Hollier, B. G. and Hutmacher, D. W.**