



Cover: Confocal micrograph from a mid-gestation *Pdgfra*^{GFP/+} mouse embryo in which cyan represents *Pdgfra*⁺ cells and red represents *Pecam1*⁺ endothelial cells. *Pdgfra* expression in endothelial-derived cells influences neural crest behavior and cardiac outflow tract development. Loss of *Pdgfra* in endothelium and endothelial-derived cells results in congenital heart defects, including double outlet right ventricle and transposition of the great arteries. See article by Aghajanian et al. on page 1101. Cover image by Haig Aghajanian is licensed under a Creative Commons Attribution 4.0 International licence.

REVIEWS

- 1039** Human pluripotent stem cell models of cardiac disease: from mechanisms to therapies
Brandão, K. O., Tabel, V. A., Atsma, D. E., Mummery, C. L. and Davis, R. P.
- 1061** Mouse models of metastasis: progress and prospects
Gómez-Cuadrado, L., Tracey, N., Ma, R., Qian, B. and Brunton, V. G.

PERSPECTIVE

- 1075** Mitochondrial dynamics in Parkinson's disease: a role for α -synuclein?
Pozo Devoto, V. M. and Falzone, T. L.

RESEARCH ARTICLES

- 1089** Loss of *Cln5* causes altered neurogenesis in a mouse model of a childhood neurodegenerative disorder
Savchenko, E., Singh, Y., Konttinen, H., Lejavova, K., Mediavilla Santos, L., Grubman, A., Kärkkäinen, V., Keksa-Goldsteine, V., Naumenko, N., Tavi, P., White, A. R., Malm, T., Koistinaho, J. and Kanninen, K. M.
- 1101** *Pdgfra* functions in endothelial-derived cells to regulate neural crest cells and the development of the great arteries
Aghajanian, H., Cho, Y. K., Rizer, N. W., Wang, Q., Li, L., Degenhardt, K. and Jain, R.

- 1109** NF κ B signaling in alveolar rhabdomyosarcoma
Cleary, M. M., Mansoor, A., Settlemeyer, T., Ijiri, Y., Ladner, K. J., Svalina, M. N., Rubin, B. P., Guttridge, D. C. and Keller, C.
- 1117** Trimebutine, a small molecule mimetic agonist of adhesion molecule L1, contributes to functional recovery after spinal cord injury in mice
Xu, J., Hu, C., Jiang, Q., Pan, H., Shen, H. and Schachner, M.

RESOURCE ARTICLES

- 1129** Early-onset torsion dystonia: a novel high-throughput yeast genetic screen for factors modifying protein levels of torsinA Δ E
Zacchi, L. F., Dittmar, J. C., Mihalevic, M. J., Shewan, A. M., Schulz, B. L., Brodsky, J. L. and Bernstein, K. A.
- 1141** Lipidomic profiling of patient-specific iPSC-derived hepatocyte-like cells
Kiamehr, M., Viiri, L. E., Vihervaara, T., Koistinen, K. M., Hilvo, M., Ekroos, K., Käkelä, R. and Aalto-Setälä, K.
- 1155** Screening in larval zebrafish reveals tissue-specific distribution of fifteen fluorescent compounds
Yao, Y., Sun, S., Fei, F., Wang, J., Wang, Y., Zhang, R., Wu, J., Liu, L., Liu, X., Cui, Z., Li, Q., Yu, M., Dang, Y. and Wang, X.