

### ARMI Research Publications 2015

1. Angiolini, J., **N. Plachta**, E. Mocskos and V. Levi, *Exploring the dynamics of cell processes through simulations of fluorescence microscopy experiments*. Biophys J, 2015. **108**(11): p. 2613-2618 Category: Biophysics **Impact Factor: 3.972** Ranking: 17/73
2. Bagheri-Fam, S., M. Ono, L. Li, L. Zhao, J. Ryan, R. Lai, Y. Katsura, F.J. Rossello, P. Koopman, G. Scherer, O. Bartsch, J.V. Eswarakumar and **V.R. Harley**, *FGFR2 mutation in 46,XY sex reversal with craniosynostosis*. Hum Mol Genet, 2015. **24**(23): p. 6699-6710 Category: Biochemistry & Molecular Biology **Impact Factor: 6.393** Ranking: 32/289 [ANT,ARMI]
3. **Berger, J., T.E. Hall** and **P.D. Currie**, *Novel transgenic lines to label sarcolemma and myofibrils of the musculature*. Zebrafish, 2015. **12**(1): p. 124-125 Category: Zoology **Impact Factor: 1.946** Ranking: 33/153
4. Bishop, P.J., C.W. Walmsley, M.J. Phillips, **M.R. Quayle, C.A. Boisvert** and **C.R. McHenry**, *Oldest pathology in a tetrapod bone illuminates the origin of terrestrial vertebrates*. PLoS One, 2015. **10**(5): p. e0125723.1-18 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [ANT,ARMI]
5. **Boisvert, C.A.**, C.L. Martins, A.G. Edmunds, **J. Cocks** and **P. Currie**, *Capture, transport, and husbandry of elephant sharks (*Callorhynchus milii*) adults, eggs, and hatchlings for research and display*. Zoo Biol, 2015. **34**(1): p. 94-98 Category: Zoology **Impact Factor: 0.831** Ranking: 101/153
6. **Borchin, B.E.** and T. Barberi, *The use of human pluripotent stem cells for the in vitro derivation of cranial placodes and neural crest cells*. Curr Top Dev Biol, 2015. **111**: p. 497-514 Category: Developmental Biology **Impact Factor: 4.680** Ranking: 6/41
7. Bouveret, R., A.J. Waardenberg, N. Schonrock, **M. Ramialison**, T. Doan, D. de Jong, A. Bondue, **G. Kaur**, S. Mohamed, H. Fonoudi, C.M. Chen, M. Wouters, S. Bhattacharya, **N. Plachta**, S.L. Dunwoodie, G. Chapman, C. Blanpain and R.P. Harvey, *NKX2-5 mutations causative for congenital heart disease retain functionality and are directed to hundreds of targets*. Elife, 2015. **4**(E06942): p. 1-30 Category: Biology **Impact Factor: 9.322** Ranking: 3/85
8. Bruckert, H., G. Marchetti, **M. Ramialison** and F. Besse, *Drosophila Hrp48 Is Required for Mushroom Body Axon Growth, Branching and Guidance*. PLoS One, 2015. **10**(8): p. e0136610.1-15 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56
9. Cardoso-Weide, L.C., R.C. Cardoso-Penha, **M.W. Da Costa**, A.C. Ferreira, D.P. Carvalho and P.S. Santisteban, *DuOx2 Promoter Regulation by Hormones, Transcriptional Factors and the Coactivator TAZ*. Eur Thyroid J, 2015. **4**(1): p. 6-13

10. **Chan, C.T., C.G. Sobey, M. Lieu, D. Ferens, M.M. Kett, H. Diep, H. Ah Kim, S.M. Krishnan, C.V. Lewis, E. Salimova, P. Tipping, A. Vinh, C.S. Samuel, K. Peter, T.J. Guzik, T.S. Kyaw, B.H. Toh, A. Bobik and G.R. Drummond, *Obligatory Role for B Cells in the Development of Angiotensin II-Dependent Hypertension*. Hypertension, 2015. **E-pub**: p. 1-26 Category: Peripheral Vascular Disease **Impact Factor: 6.499** Ranking: 3/60 [PHARM,PHY,ARMI]**
11. **Chen, X., J.M. Kezic, J.V. Forrester, G.L. Goldberg, I.P. Wicks, C.C. Bernard and P.G. McMenamin, *In vivo multi-modal imaging of experimental autoimmune uveoretinitis in transgenic reporter mice reveals the dynamic nature of inflammatory changes during disease progression*. J Neuroinflammation, 2015. **12**(1): p. 1.1-127 Category: Neurosciences **Impact Factor: 5.408** Ranking: 32/252 [ANT,ARMI]**
12. **Cotton, L.M., M.L. Meilak, T. Templeton, J.G. Gonzales, A. Nenci, M. Cooney, D. Truman, F. Rodda, A. Lynas, E. Viney, N. Rosenthal, D.M. Bianco, M.K. O'Bryan and I.M. Smyth, *Utilising the resources of the International Knockout Mouse Consortium: the Australian experience*. Mamm Genome, 2015. **26**(3-4): p. 142-153 Category: Biochemistry & Molecular Biology **Impact Factor: 3.068** Ranking: 120/289 [ANT,BCH,ARMI]**
13. **Debuque, R.J. and J.W. Godwin, *Methods for axolotl blood collection, intravenous injection, and efficient leukocyte isolation from peripheral blood and the regenerating limb*, in *Methods Mol Biol*, A. Kumar and A. Simon, Editors. 2015, Springer: USA. p. 205-226 **Book Chapter****
14. **Firas, J., X. Liu, S.M. Lim and J.M. Polo, *REVIEW: Transcription factor-mediated reprogramming: epigenetics and therapeutic potential*. Immunol Cell Biol, 2015. **93**(3): p. 284-289 Category: Immunology **Impact Factor: 4.147** Ranking: 35/148 [ANT,ARMI]**
15. **Foster, S.R., E.R. Porrello, M. Stefani, N.J. Smith, P. Molenaar, C.G. Dos Remedios, W.G. Thomas and M. Ramialison, *Cardiac gene expression data and in silico analysis provide novel insights into human and mouse taste receptor gene regulation*. Naunyn Schmiedebergs Arch Pharmacol, 2015. **388**(10): p. 1009-1027 Category: Pharmacology & Pharmacy **Impact Factor: 2.471** Ranking: 119/254**
16. **Gallego-Colon, E., R.D. Sampson, S. Sattler, M.D. Schneider, N. Rosenthal and J. Tonkin, *Cardiac-Restricted IGF-1Ea Overexpression Reduces the Early Accumulation of Inflammatory Myeloid Cells and Mediates Expression of Extracellular Matrix Remodelling Genes after Myocardial Infarction*. Mediators Inflamm, 2015. **2015**: p. 484357.1-10 Category: Immunology **Impact Factor: 3.236** Ranking: 58/148**

17. Garama, D.J., T.J. Harris, C.L. White, **F.J. Rossello**, M. Abdul-Hay, D.J. Gough and D.E. Levy, *A Synthetic Lethal Interaction between Glutathione Synthesis and Mitochondrial Reactive Oxygen Species Provides a Tumor-Specific Vulnerability Dependent on STAT3*. Mol Cell Biol, 2015. **35**(21): p. 3646-3656 Category: Biochemistry & Molecular Biology **Impact Factor: 4.777** Ranking: 57/290
18. **Gladwyn-Ng, I.E., S.S. Li, Z. Qu, J.M. Davis, L. Ngo, M. Haas, J. Singer and J.I.-T. Heng**, *Bacurd2 is a novel interacting partner to Rnd2 which controls radial migration within the developing mammalian cerebral cortex*. Neural Dev, 2015. **10**(1): p. 1-13 Category: Neurosciences **Impact Factor: 3.453** Ranking: 92/252
19. **Goldshmit, Y., F. Frisca, J. Kaslin, A.R. Pinto, J.-K.K.Y. Tang, A. Pebay, R. Pinkas-Kramarski and P.D. Currie**, *Decreased anti-regenerative effects after spinal cord injury in spry4<sup>-/-</sup> mice*. Neuroscience, 2015. **287**: p. 104-112 Category: Neurosciences **Impact Factor: 3.357** Ranking: 95/252
20. **Goldshmit, Y., S. Kanner, M. Zacs, F. Frisca, A.R. Pinto, P.D. Currie** and R. Pinkas-Kramarski, *Rapamycin increases neuronal survival, reduces inflammation and astrocyte proliferation after spinal cord injury*. Mol Cell Neurosci, 2015. **68**: p. 82-91 Category: Neurosciences **Impact Factor: 3.840** Ranking: 72/252
21. **Gurevich, D., A. Siegel** and **P.D. Currie**, *Skeletal myogenesis in the zebrafish and its implications for muscle disease modelling*, in *Vertebrate Myogenesis - Stem Cells and Precursors - Results and Problems in Cell Differentiation*, B. Brand-Saberi, Editor. 2015, Springer: Germany. p. 49-76 **Book Chapter**
22. Henderson, T.M., K. Ladewig, **D.N. Haylock, K.M. McLean** and A.J. O'Connor, *Formation and characterisation of a modifiable soft macro-porous hyaluronic acid cryogel platform*. J Biomater Sci Polym Ed, 2015. **26**(13): p. 881-897 Category: Engineering, Biomedical **Impact Factor: 1.648** Ranking: 42/76
23. **Heng, J.I., Z. Qu, C. Ohtaka-Maruyama, H. Okado, M. Kasai, D. Castro, F. Guillemot and S.S. Tan**, *The zinc finger transcription factor RP58 negatively regulates Rnd2 for the control of neuronal migration during cerebral cortical development*. Cereb Cortex, 2015. **25**(3): p. 806-816 Category: Neurosciences **Impact Factor: 8.665** Ranking: 16/252
24. **Hirst, C.E. and C. Marcelle**, *The avian embryo as a model system for skeletal myogenesis*, in *Vertebrate Myogenesis - Stem Cells and Precursors - Results and Problems in Cell Differentiation*, B. Brand-Saberi, Editor. 2015, Springer: Germany. p. 99-122 **Book Chapter**
25. **Hobbs, R.M., H.M. La, J.A. Makela**, T. Kobayashi, T. Noda and P.P. Pandolfi, *Distinct germline progenitor subsets defined through Tsc2-mTORC1 signaling*. EMBO Rep, 2015.

- 16(4):** p. 467-480 Category: Biochemistry & Molecular Biology **Impact Factor: 9.055**  
Ranking: 22/289 **[ARMI,BCH]**
26. Holland, N.D., L.Z. Holland and **A. Heimberg**, *Hybrids between the Florida amphioxus (*Branchiostoma floridae*) and the Bahamas lancelet (*Asymmetron lucayanum*): developmental morphology and chromosome counts*. Biol Bull, 2015. **228(1):** p. 13-24  
Category: Biology **Impact Factor: 1.638** Ranking: 34/85
27. **Horvay, K., T. Jarde**, F. Casagrande, V.M. Perreau, K. Haigh, **C.M. Nefzger, R. Akhtar**, T. Gridley, G. Berx, J.J. Haigh, N. Barker, **J.M. Polo**, G.R. Hime and **H.E. Abud**, *Snai1 regulates cell lineage allocation and stem cell maintenance in the mouse intestinal epithelium*. EMBO J, 2015. **34(10):** p. 1319-1335 Category: Biochemistry & Molecular Biology **Impact Factor: 10.434** Ranking: 11/289 **[ANT,ARMI]**
28. Huuskes, B.M., A.F. Wise, A.J. Cox, E.X. Lim, **N.L. Payne**, D.J. Kelly, **C.S. Samuel** and **S.D. Ricardo**, *Combination therapy of mesenchymal stem cells and serelaxin effectively attenuates renal fibrosis in obstructive nephropathy*. FASEB J, 2015. **29(2):** p. 540-553  
Category: Biochemistry & Molecular Biology **Impact Factor: 5.043** Ranking: 50/289 **[ANT,PHARM,ARMI]**
29. Jackson, J., A.J. Canty, **L. Huang** and V. De Paola, *Laser-Mediated Microlesions in Mouse Neocortex to Investigate Neuronal Degeneration and Regeneration*. Curr Protoc Neurosci, 2015. **73:** p. 2 24.1-17
30. Johanson, Z., **C. Boisvert**, A. Maksimenko, **P. Currie** and K. Trinajstic, *Development of the Synarcual in the Elephant Sharks (*Holocephali*; *Chondrichthyes*): Implications for Vertebral Formation and Fusion*. PLoS One, 2015. **10(9):** p. e0135138.1-19 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56
31. Kennedy-Lydon, T. and **N. Rosenthal**, *REVIEW: Cardiac regeneration: epicardial mediated repair*. Proc Biol Sci, 2015. **282(1821):** p. 1-9 Category: Biology **Impact Factor: 5.051** Ranking: 8/85
32. Lee, E.J., C.L. Be, A.R. Vinson, A.G. Riches, F. Fehr, J. Gardiner, T.R. Gengenbach, D.A. Winkler and **D. Haylock**, *Immobilisation of a thrombopoietin peptidic mimic by self-assembled monolayers for culture of CD34+ cells*. Biomaterials, 2015. **37(1):** p. 82-93  
Category: Engineering, Biomedical **Impact Factor: 8.557** Ranking: 2/76
33. Lehmann-Horn, K., S.A. Sagan, **C.C. Bernard**, R.A. Sobel and S.S. Zamvil, *B-cell very late antigen-4 deficiency reduces leukocyte recruitment and susceptibility to central nervous system autoimmunity*. Ann Neurol, 2015. **77(5):** p. 902-908 Category: Neurosciences **Impact Factor: 9.977** Ranking: 12/252

34. Liang, K., R. Ricco, C.M. Doherty, M.J. Styles, S. Bell, N. Kirby, S. Mudie, **D. Haylock**, A.J. Hill, C.J. Doonan and P. Falcaro, *Biomimetic mineralization of metal-organic frameworks as protective coatings for biomacromolecules*. Nat Commun, 2015. **6**(Article #7240): p. 1-8 Category: Multidisciplinary Sciences **Impact Factor: 11.470** Ranking: 3/56 [ARMI,ANT]
35. McCourt, P.A., A. Oteiza, B. Cao and **S.K. Nilsson**, *Isolation of murine bone marrow scavenging sinusoidal endothelial cells*. Methods Mol Biol, 2015. **1235**: p. 59-71
36. **McDonald, C.A., N.L. Payne, G. Sun, L. Moussa, C. Siatskas**, R. Lim, E.M. Wallace, G. Jenkin and **C.C. Bernard**, *Immunosuppressive potential of human amnion epithelial cells in the treatment of experimental autoimmune encephalomyelitis*. J Neuroinflammation, 2015. **12**: p. 112.1-14 Category: Neurosciences **Impact Factor: 5.408** Ranking: 32/252 [ARMI,ANT]
37. Muerza-Cascante, M.L., **D. Haylock**, D.W. Hutmacher and P.D. Dalton, *Melt electrospinning and its technologization in tissue engineering*. Tissue Eng Part B Rev, 2015. **21**(2): p. 187-202
38. **Mundinano, I.C., W.C. Kwan and J.A. Bourne**, *Mapping the mosaic sequence of primate visual cortical development*. Front Neuroanat, 2015. **9**(Article # A132): p. 1-17 Category: Anatomy & Morphology **Impact Factor: 3.544** Ranking: 3/21
39. **Nefzger, C.M., S. Alaei and J.M. Polo**, *Isolation of Reprogramming Intermediates During Generation of Induced Pluripotent Stem Cells from Mouse Embryonic Fibroblasts*. Methods Mol Biol, 2015. **1330**: p. 205-218 [ANT,ARMI]
40. **Nim, H.T., S.E. Boyd and N.A. Rosenthal**, *Systems approaches in integrative cardiac biology: illustrations from cardiac heterocellular signalling studies*. Prog Biophys Mol Biol, 2015. **117**(1): p. 69-77 Category: Biochemistry & Molecular Biology **Impact Factor: 2.274** Ranking: 182/289
41. **Nim, H.T., M.B. Furtado, M.W. Costa, H. Kitano, N.A. Rosenthal and S.E. Boyd**, *CARFMAP: A Curated Pathway Map of Cardiac Fibroblasts*. PLoS One, 2015. **10**(12): p. e0143274.1-16 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 9/57
42. **Nim, H.T., M.B. Furtado, M.W. Costa, N.A. Rosenthal, H. Kitano and S.E. Boyd**, *VISIONET: intuitive visualisation of overlapping transcription factor networks, with applications in cardiogenic gene discovery*. BMC Bioinformatics, 2015. **16**: p. 141.1-7 Category: Mathematical & Computational Biology **Impact Factor: 2.576** Ranking: 10/56
43. **Nim, H.T., F. Schreiber**, T. Done and **S.E. Boyd**. *Interactive geolocalational and coral compositional visualisation of Great Barrier Reef heat stress data*. in *IEEE International Symposium on Big Data Visual Analytics [BDVA 2015]*. 2015. Australia: CSIRO

44. Okuda, K.S., J.P. Misa, S.H. Oehlers, C.J. Hall, F. Ellett, **S. Alasmari, G.J. Lieschke**, K.E. Crosier, P.S. Crosier and J.W. Astin, *A zebrafish model of inflammatory lymphangiogenesis*. *Biol Open*, 2015. **4**(10): p. 1270-1280 Category: Biology **Impact Factor: 2.416** Ranking: 22/85
45. Pagan, A.J., C.T. Yang, J. Cameron, L.E. Swaim, F. Ellett, **G.J. Lieschke** and L. Ramakrishnan, *Myeloid Growth Factors Promote Resistance to Mycobacterial Infection by Curtailing Granuloma Necrosis through Macrophage Replenishment*. *Cell Host Microbe*, 2015. **18**(1): p. 15-26 Category: Microbiology **Impact Factor: 12.328** Ranking: 5/119
46. Paolini, A., A.L. Duchemin, S. Albadri, E. Patzel, D. Bornhorst, P. Gonzalez Avalos, S. Lemke, A. Machate, M. Brand, S. Sel, V. Di Donato, F. Del Bene, F.R. Zolessi, **M. Ramialison** and L. Poggi, *Asymmetric inheritance of the apical domain and self-renewal of retinal ganglion cell progenitors depend on Anillin function*. *Development*, 2015. **142**(5): p. 832-839 Category: Developmental Biology **Impact Factor: 6.462** Ranking: 4/41
47. **Payne, N.L., A. Sylvain, C. O'Brien, D. Herszfeld, G. Sun and C.C. Bernard**, *Application of human induced pluripotent stem cells for modeling and treating neurodegenerative diseases*. *N Biotechnol*, 2015. **32**(1): p. 212-228 Category: Biotechnology & Applied Microbiology **Impact Factor: 2.898** Ranking: 50/162 [ARMI,ANT]
48. Pearson, H.B., **E. McGlinn**, T.J. Pheesse, H. Schluter, A. Srikumar, N.J. Godde, C.B. Woelwer, A. Ryan, W.A. Phillips, M. Ernst, P. Kaur and P. Humbert, *The polarity protein Scrib mediates epidermal development and exerts a tumor suppressive function during skin carcinogenesis*. *Mol Cancer*, 2015. **14**(1): p. 169.1-16 Category: Oncology **Impact Factor: 4.257** Ranking: 48/211
49. **Reibe-Pal, S.** and B. Madea, *Calculating time since death in a mock crime case comparing a new computational method (ExLAC) with the ADH method*. *Forensic Sci Int*, 2015. **248**: p. 78-81 Category: Medicine, Legal **Impact Factor: 2.140** Ranking: 3/15
50. Robinson, A.M., S. Miller, **N. Payne, R. Boyd**, S. Sakkal and K. Nurgali, *Neuroprotective Potential of Mesenchymal Stem Cell-Based Therapy in Acute Stages of TNBS-Induced Colitis in Guinea-Pigs*. *PLoS One*, 2015. **10**(9): p. e0139023.1-32 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 9/57 [ARMI,ANT]
51. Samarage, C.R., **M.D. White, Y.D. Alvarez, J.C. Fierro-Gonzalez**, Y. Henon, E.C. Jesudason, **S. Bissiere**, A. Fouras and **N. Plachta**, *Cortical Tension Allocates the First Inner Cells of the Mammalian Embryo*. *Dev Cell*, 2015. **34**(4): p. 435-447 Category: Developmental Biology **Impact Factor: 9.708** Ranking: 3/4

52. **Shu, R.**, W. Wong, Q.H. Ma, **Z.Z. Yang**, **H. Zhu**, **F.J. Liu**, P. Wang, J. Ma, S. Yan, **J.M. Polo**, **C.C. Bernard**, L.W. Stanton, G.S. Dawe and **Z.C. Xiao**, *APP intracellular domain acts as a transcriptional regulator of miR-663 suppressing neuronal differentiation*. *Cell Death Dis*, 2015. **6**(e1651): p. 1-12 Category: Cell Biology **Impact Factor: 5.014** Ranking: 49/1874 [ANT,ARMI]
53. Storan, M.J., **S.Y. Heazlewood**, **C.K. Heazlewood**, **D.N. Haylock**, W.S. Alexander, **R.J. Neaves**, A. Oteiza and **S.K. Nilsson**, *BRIEF REPORT: Factors released by megakaryocytes thrombin cleave osteopontin to negatively regulate hematopoietic stem cells*. *Stem Cells*, 2015. **33**(7): p. 2351-2357 Category: Biotechnology & Applied Microbiology **Impact Factor: 6.523** Ranking: 10/162 [ARMI,ANT]
54. Sztal, T.E., M. Zhao, C. Williams, V. Oorschot, A.C. Parslow, **A. Giousoh**, M. Yuen, T.E. Hall, A. Costin, **G. Ramm**, **P.I. Bird**, E.M. Busch-Nentwich, D.L. Stemple, **P.D. Currie**, S.T. Cooper, N.G. Laing, K.J. Nowak and R.J. Bryson-Richardson, *Zebrafish models for nemaline myopathy reveal a spectrum of nemaline bodies contributing to reduced muscle function*. *Acta Neuropathol*, 2015. **130**: p. 389-406 Category: Neurosciences **Impact Factor: 10.762** Ranking: 9/252 [BCH,ARMI]
55. Tafreshi, A.P., **A. Sylvain**, **G. Sun**, **D. Herszfeld**, K. Schulze and **C.C. Bernard**, *Lithium chloride improves the efficiency of induced pluripotent stem cell-derived neurospheres*. *Biol Chem*, 2015. **396**(8): p. 923-928 Category: Biochemistry & Molecular Biology **Impact Factor: 3.268** Ranking: 106/289
56. Tan, J.L., S.T. Chan, C.Y. Lo, J.A. Deane, C.A. McDonald, **C.C. Bernard**, E.M. Wallace and R. Lim, *Amnion cell mediated immune modulation following bleomycin challenge: controlling the regulatory T cell response*. *Stem Cell Res Ther*, 2015. **6**(1): p. 1-12 Category: Medicine, Research & Experimental **Impact Factor: 3.368** Ranking: 36/123 [ANT,ARMI]
57. Tonkin, J. and **N. Rosenthal**, *PREVIEW: One small step for muscle: a new micropeptide regulates performance*. *Cell Metab*, 2015. **21**(4): p. 515-516 Category: Cell Biology **Impact Factor: 17.565** Ranking: 7/184
58. Tonkin, J., L. Temmerman, R.D. Sampson, E. Gallego-Colon, L. Barberi, D. Bilbao, M.D. Schneider, A. Musaro and **N.A. Rosenthal**, *Monocyte/Macrophage-derived IGF-1 Orchestrates Murine Skeletal Muscle Regeneration and Modulates Autocrine Polarization*. *Mol Therapy*, 2015. **23**(7): p. 1189-1200 Category: Biotechnology & Applied Microbiology **Impact Factor: 6.227** Ranking: 12/162
59. Trinajstic, K., **C. Boisvert**, J. Long, A. Maksimenko and Z. Johanson, *Pelvic and reproductive structures in placoderms (stem gnathostomes)*. *Biol Rev Camb Philos Soc*, 2015. **90**(2): p. 467-501 Category: Biology **Impact Factor: 9.670** Ranking: 1/85

60. **Veron, N., Z. Qu, P.A. Kipen, C.E. Hirst and C. Marcelle**, *CRISPR mediated somatic cell genome engineering in the chicken*. Dev Biol, 2015. **407**(1): p. 68-74 Category: Developmental Biology **Impact Factor: 3.547** Ranking: 9/41
61. Wang, Y.C., J.W. Stein, C.L. Lynch, H.T. Tran, C.Y. Lee, R. Coleman, A. Hatch, V.G. Antontsev, **H.S. Chy, C.M. O'Brien**, S.K. Murthy, **A.L. Laslett**, S.E. Peterson and J.F. Loring, *Glycosyltransferase ST6GAL1 contributes to the regulation of pluripotency in human pluripotent stem cells*. Sci Rep, 2015. **5**(Article #13317): p. 1-13 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/56
62. **Warner, C.E., W.C. Kwan**, D. Wright, L.A. Johnston, G.F. Egan and **J.A. Bourne**, *Preservation of vision by the pulvinar following early-life primary visual cortex lesions*. Curr Biol, 2015. **25**(4): p. 424-434 Category: Biochemistry & Molecular Biology **Impact Factor: 9.571** Ranking: 15/289
63. **White, M.D. and N. Plachta**, *How adhesion forms the early mammalian embryo*. Curr Top Dev Biol, 2015. **112**: p. 1-17 Category: Developmental Biology **Impact Factor: 4.680** Ranking: 6/41
64. **White, M.D. and N. Plachta**, *The first cell fate decision during mammalian development*, in *Stem Cells, Tissue Engineering and Regenerative Medicine*, D. Warburton, Editor. 2015, World Scientific Publishing Co Pte Ltd: Singapore. p. 25-40 **Book Chapter**
65. **Wong, S.F., V. Agarwal, J.H. Mansfield, N. Denans, M.G. Schwartz, H.M. Prosser, O. Pourquie, D.P. Bartel, C.J. Tabin and E. McGlinn**, *Independent regulation of vertebral number and vertebral identity by microRNA-196 paralogs*. Proc Natl Acad Sci U S A, 2015. **112**(35): p. E4884-4893 Category: Multidisciplinary Sciences **Impact Factor: 9.674** Ranking: 4/56
66. Xu, X., E.J. Jaehne, Z. Greenberg, P. McCarthy, E. Saleh, C.L. Parish, D. Camera, J. Heng, M. Haas, B.T. Baune, U. Ratnayake, **M. van den Buuse**, A.F. Lopez, H.S. Ramshaw and Q. Schwarz, *14-3-3{zeta} deficient mice in the BALB/c background display behavioural and anatomical defects associated with neurodevelopmental disorders*. Sci Rep, 2015. **5**(12434): p. 1-15 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/56
67. Zhu, F., **T. Friedrich**, D. Nugegoda, **J. Kaslin** and D. Wlodkowic, *Assessment of the biocompatibility of three-dimensional-printed polymers using multispecies toxicity tests*. Biomicrofluidics, 2015. **9**(6): p. 061103.1-XX Category: Biochemical Research Methods **Impact Factor: 3.357** Ranking: 22/79



68. Zhu, F., J. Skommer, N.P. Macdonald, **T. Friedrich, J. Kaslin** and D. Wlodkovic, *Three-dimensional printed millifluidic devices for zebrafish embryo tests*. *Biomicrofluidics*, 2015. **9**(4): p. 046502.1-11 Category: Biochemical Research Methods **Impact Factor: 3.357** Ranking: 22/79
  
69. Zhu, F., A. Wigh, **T. Friedrich**, A. Devaux, S. Bony, D. Nugegoda, **J. Kaslin** and D. Wlodkovic, *Automated Lab-on-a-Chip Technology for Fish Embryo Toxicity Tests Performed under Continuous Microperfusion (muFET)*. *Environ Sci Technol*, 2015. **40**(24): p. 14570-14578 Category: Engineering Sciences **Impact Factor: 5.330** Ranking: 10/223