

### ARMI Publications to 4 December 2012

1. Asharani, P.V., K. Keupp, O. Semler, W. Wang, Y. Li, H. Thiele, G. Yigit, E. Pohl, J. Becker, P. Frommolt, **C. Sonntag**, J. Altmuller, K. Zimmermann, D.S. Greenspan, N.A. Akarsu, C. Netzer, E. Schonau, R. Wirth, M. Hammerschmidt, P. Nurnberg, B. Wollnik, and T.J. Carney, *Attenuated BMP1 function compromises osteogenesis, leading to bone fragility in humans and zebrafish*. Am J Hum Genet, 2012. **90**(4): p. 661-674 Category: Genetics & Heredity **Impact Factor: 10.603** Ranking: 8/157
2. Benard, E.L., A.M. van der Sar, F. Ellett, **G.J. Lieschke**, H.P. Spaink, and A.H. Meijer, *VIDEO: Infection of zebrafish embryos with intracellular bacterial pathogens*. J Vis Exp, 2012. **61**(e3781): p. 1-8
3. **Berger, J.** and **P.D. Currie**, *Zebrafish models flex their muscles to shed light on muscular dystrophies*. Dis Model Mech, 2012. **5**(6): p. 726-732 Category: Cell Biology **Impact Factor: 4.937** Ranking: 54/181
4. **Berger, J.**, **T. Sztal**, and **P.D. Currie**, *Quantification of birefringence readily measures the level of muscle damage in zebrafish*. Biochem Biophys Res Commun, 2012. **423**(4): p. 785-788 Category: Biochemistry & Molecular Biology **Impact Factor: 2.484** Ranking: 173/289
5. **Bryson-Richardson, R.J.**, **S. Berger**, and **P.D. Currie**, *Atlas of Zebrafish Development*. 1st ed, ed. R. Bryson-Richardson. Vol. 1. 2012, UK: Academic Press. 238 [**ARMI,SOBS**]
6. Cai, H., F.S. Santiago, L. Prado-Lourenco, B. Wang, M. Patrikakis, M.P. Davenport, G.J. Maghzal, R. Stocker, C.R. Parish, B.H. Chong, **G.J. Lieschke**, T.W. Wong, C.N. Chesterman, D.J. Francis, F.J. Moloney, R.S. Barnetson, G.M. Halliday, and L.M. Khachigian, *DNAzyme Targeting c-jun Suppresses Skin Cancer Growth*. Sci Transl Med, 2012. **4**(139): p. 139ra82.1-12 Category: Cell Biology **Impact Factor: 7.804** ranking: 26/180
7. Chandras, C., M. Zouberakis, E. Salimova, D. Smedley, **N. Rosenthal**, and V. Aidinis, *CreZOO--the European virtual repository of Cre and other targeted conditional driver strains*. Database (Oxford), 2012. **2012**(bas029.): p. 1-5 Category: Mathematics & Computational Biology **Impact Factor: 2.071** Ranking: 15/47
8. Dworkin, S., C. Darido, S.R. Georgy, T. Wilanowski, S. Srivastava, **F. Ellett**, **L. Pase**, Y. Han, A. Meng, J.K. Heath, **G.J. Lieschke**, and S.M. Jane, *Midbrain-hindbrain boundary patterning and morphogenesis are regulated by diverse grainy head-like 2-dependent pathways*. Development, 2012. **139**(3): p. 525-36 Category: Developmental Biology **Impact Factor: 6.596** Ranking: 5/40
9. **Ellett, F.** and **G.J. Lieschke**, *Computational Quantification of fluorescent leukocyte numbers in Zebrafish embryos*, in *Methods in Enzymology - Imaging and Spectroscopic Analysis of Living Cells/Imaging Live Cells in Health and Disease*, P. Conn, Editor. 2012, Academic Press: USA. p. 425-435 **Book Chapter**
10. Frisca, F., R.A. Sabbadini, **Y. Goldshmit**, and A. Pebay, *Biological effects of lysophosphatidic acid in the nervous system*. Int Rev Cell Mol Biol, 2012. **296**: p. 273-322 Category: Biochemistry & Molecular Biology **Impact Factor: 4.481** Ranking: 70/289

11. Frugier, T., A. Conquest, C. McLean, **P. Currie**, D. Moses, and **Y. Goldshmit**, *Expression and activation of EphA4 in the human brain after traumatic injury*. J Neuropathol Exp Neurol, 2012. **71**(3): p. 242-250 Category: Clinical Neurology **Impact Factor: 4.258** Ranking: 26/191
12. Garcia-Moreno, F., N.A. Vasistha, N. Trevia, **J.A. Bourne**, and Z. Molnar, *Compartmentalization of cerebral cortical germinal zones in a lissencephalic primate and gyrencephalic rodent*. Cereb Cortex, 2012. **22**(2): p. 482-492 Category: Neurosciences **Impact Factor: 6.544** Ranking: 22/243
13. **Goldshmit, Y.**, R. Matteo, **T. Sztal**, **F. Ellett**, F. Frisca, K. Moreno, D. Crombie, **G.J. Lieschke**, **P.D. Currie**, R.A. Sabbadini, and A. Pebay, *Blockage of Lysophosphatidic Acid Signaling Improves Spinal Cord Injury Outcomes*. Am J Pathol, 2012. **181**(3): p. 978-992 Category: Pathology **Impact Factor: 4.890** Ranking: 6/78
14. **Goldshmit, Y.**, **T.E. Sztal**, **P.R. Jusuf**, **T.E. Hall**, **M. Nguyen-Chi**, and **P.D. Currie**, *Fgf-dependent glial cell bridges facilitate spinal cord regeneration in zebrafish*. J Neurosci, 2012. **32**(22): p. 7477-7492 Category: Neurosciences **Impact Factor: 7.115** Ranking: 19/243
15. Hochmann, S., **J. Kaslin**, S. Hans, A. Weber, A. Machate, M. Geffarth, R.H. Funk, and M. Brand, *Fgf signaling is required for photoreceptor maintenance in the adult zebrafish retina*. PLoS One, 2012. **7**(1): p. 1-12 Category: Biology **Impact Factor: 4.092** Ranking: 12/84
16. **Homman-Ludiye, J.**, **T.D. Merson**, and **J.A. Bourne**, *The early postnatal nonhuman primate neocortex contains self-renewing multipotent neural progenitor cells*. PLoS One, 2012. **7**(3): p. e34383 Category: Biology **Impact Factor: 4.092** Ranking: 12/84
17. Hu, J.K., **E. McGlinn**, B.D. Harfe, G. Kardon, and C.J. Tabin, *Autonomous and nonautonomous roles of Hedgehog signaling in regulating limb muscle formation*. Genes Dev, 2012. **26**(18): p. 2088-2102 Category: Cell Biology **Impact Factor: 11.659** Ranking: 3/40
18. Johnson, J.L., **T.E. Hall**, J.M. Dyson, **C. Sonntag**, **K. Ayers**, **S. Berger**, P. Gautier, C. Mitchell, G.E. Hollway, and **P.D. Currie**, *Scube activity is necessary for Hedgehog signal transduction in vivo*. Dev Biol, 2012. **368**(2): p. 193-202 Category: Developmental Biology **Impact Factor: 4.069** Ranking: 7/40 [ARMI,BCH]
19. **Jusuf, P.R.**, S. Albadri, A. Paolini, **P.D. Currie**, F. Argenton, S. Higashijima, W.A. Harris, and L. Poggi, *Biasing amacrine subtypes in the Atoh7 lineage through expression of Barhl2*. J Neurosci, 2012. **32**(40): p. 13929-13944 Category: Neurosciences **Impact Factor: 7.115** Ranking: 19/244
20. Kizil, C., N. Kyritsis, S. Dudczig, V. Kroehne, D. Freudenreich, **J. Kaslin**, and M. Brand, *Regenerative Neurogenesis from Neural Progenitor Cells Requires Injury-Induced Expression of Gata3*. Dev Cell, 2012. **23**: p. 1-8 Category: Cell Biology **Impact Factor: 14.030** Ranking: 9/181
21. Krallinger, M., F. Leitner, M. Vazquez, **D. Salgado**, **C. Marcelle**, M. Tyers, A. Valencia, and A. Chatr-aryamontri, *How to link ontologies and protein-protein interactions to literature: text-mining approaches and the BioCreative experience*. Database (Oxford), 2012. **2012**(Article bas017): p. 1-12 Category: Mathematical & Computational Biology **Impact Factor: 2.071** Ranking: 15/47

22. Kyritsis, N., C. Kizil, S. Zocher, V. Kroehne, **J. Kaslin**, D. Freudenreich, A. Iltzsche, and M. Brand, *Acute Inflammation Initiates the Regenerative Response in the Adult Zebrafish Brain*. *Science*, 2012. **E-pub**: p. 1-6 Category: Multidisciplinary Sciences **Impact Factor: 31.201** Ranking: 2/56
23. **Lui, L.L., A.E. Dobiecki, J.A. Bourne, and M.G. Rosa**, *Breaking camouflage: responses of neurons in the middle temporal area to stimuli defined by coherent motion*. *Eur J Neurosci*, 2012. **E-pub**: p. 1-14 Category: Neurosciences **Impact Factor: 3.631** Ranking: 80/243 [**ARMI,PHY**]
24. Macheda, M.L., W.W. Sun, K. Kugathasan, B.M. Hogan, N.I. Bower, M.M. Halford, Y.F. Zhang, B.E. Jacques, **G.J. Lieschke**, A. Dabdoub, and S.A. Stacker, *The Wnt Receptor Ryk Plays a Role in Mammalian Planar Cell Polarity Signaling*. *J Biol Chem*, 2012. **287**(35): p. 29312-29323 Category: Biochemistry & Molecular Biology **Impact Factor: 4.773** Ranking: 66/289
25. Mansfield, J.H. and **E. McGlinn**, *Evolution, expression, and developmental function of Hox-embedded miRNAs*, in *Curr Top Dev Biol*, PM Wasserman and O. Pourquie, Editors. 2012, Academic Press: USA. p. 31-57 Category: Developmental Biology **Impact Factor: 6.000** Ranking: 6/40
26. **Martin, K.R., A. Corlett, D. Dubach, T. Mustafa, H.A. Coleman, H.C. Parkinson, T.D. Merson, J.A. Bourne, S. Porta, M.L. Arbones, D.I. Finkelstein, and M.A. Pritchard**, *Over-expression of RCAN1 causes Down syndrome-like hippocampal deficits that alter learning and memory*. *Hum Mol Genet*, 2012. **21**(3): p. 3025-3041 Category: Genetics & Heredity **Impact Factor: 7.636** Ranking: 13/157 [**BCH,PHY,ARMI**]
27. **Nguyen-Chi, M.E., R. Bryson-Richardson, C. Sonntag, T.E. Hall, A. Gibson, T. Sztal, W. Chua, T.F. Schilling, and P.D. Currie**, *Morphogenesis and Cell Fate Determination within the Adaxial Cell Equivalence Group of the Zebrafish Myotome*. *PLoS Genet*, 2012. **8**(10): p. e1003014 Category: Genetics & Heredity **Impact Factor: 8.694** Ranking: 11/158
28. Nicholls, C., **A.R. Pinto**, H. Li, L. Li, L. Wang, R. Simpson, and J.P. Liu, *Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) induces cancer cell senescence by interacting with telomerase RNA component*. *Proc Natl Acad Sci U S A*, 2012. **109**(33): p. 13308-13313 Category: Multidisciplinary Sciences **Impact Factor: 9.681** Ranking: 3/55
29. **Pase, L., J.E. Layton, C. Wittmann, F. Ellett, C.J. Nowell, C.C. Reyes-Aldasoro, S. Varma, K.L. Rogers, C.J. Hall, M.C. Keightley, P.S. Crosier, C. Grabher, J.K. Heath, S.A. Renshaw, and G.J. Lieschke**, *Neutrophil-delivered myeloperoxidase dampens the hydrogen peroxide burst after tissue wounding in zebrafish*. *Curr Biol*, 2012. **22**(19): p. 1818-1824 Category: Biochemistry & Molecular Biology **Impact Factor: 9.647** Ranking: 18/290
30. **Pase, L., C.J. Nowell, and G.J. Lieschke**, *In Vivo Real-Time Visualization of Leukocytes and Intracellular Hydrogen Peroxide Levels During a Zebrafish Acute Inflammation Assay*, in *Methods in Enzymology - Imaging and Spectroscopic Analysis of Living Cells* *Imaging Live Cells in Health and Disease*, P. Conn, Editor. 2012, Academic Press: USA. p. 135-156 **Book Chapter**

31. **Pinto, A.R.**, R. Paolicelli, E. Salimova, J. Gospocic, E. Slonimsky, D. Bilbao-Cortes, **J.W. Godwin**, and **N.A. Rosenthal**, *An abundant tissue macrophage population in the adult murine heart with a distinct alternatively-activated macrophage profile*. PLoS One, 2012. **7**(5): p. e36814.1-11 Category: Biology **Impact Factor: 4.092** Ranking: 12/84
32. **Rios, A.C.** and **C. Marcelle**, *A tale of stolen kiss in muscle*. Med Sci (Paris), 2012. **28**(3): p. 264-6 Category: Medicine, Research & Experimental **Impact Factor: 0.516** Ranking: 94/111
33. **Rios, A.C.**, **C. Marcelle**, and **O. Serralbo**, *Gene loss-of-function and live imaging in chick embryos*, in *Methods Mol Biol*, K. Turksen, Editor. 2012, Humana Press: USA. p. 105-117
34. **Rosenthal, N.** and C. Stewart, *EDITORIAL: In search of a wide-angle perspective*. Differentiation, 2012. **83**(3): p. iii-iv (3-4) Category: Cell Biology **Impact Factor: 2.807** Ranking: 106/180
35. Ruparella, A.A., M. Zhao, **P.D. Currie**, and R.J. Bryson-Richardson, *Characterization and Investigation of zebrafish models of Filamin related myofibrillar myopathy*. Hum Mol Genet, 2012. **E-pub**: p. 1-11 Category: Biochemistry & Molecular Biology **Impact Factor: 7.636** Ranking: 31/289
36. **Salgado, D.**, M. Krallinger, M. Depaule, E. Drula, A. Tendulkar, F. Leitner, A. Valencia, and **C. Marcelle**, *MyMiner: a web application for computer-assisted biocuration and text annotation*. Bioinformatics, 2012. **E-pub**: p. 1-3 Category: Mathematical & Computational Biology **Impact Factor: 5.468** Ranking: 1/47
37. **Salgado, D.**, **C. Marcelle**, **P.D. Currie**, and R.J. Bryson-Richardson, *The Zebrafish Anatomy Portal: A novel integrated resource to facilitate zebrafish research*. Dev Biol, 2012. **372**(1): p. 1-4 Category: Developmental Biology **Impact Factor: 4.069** Ranking: 7/40
38. Santini, M.P. and **N. Rosenthal**, *Myocardial Regenerative Properties of Macrophage Populations and Stem Cells*. J Cardiovasc Transl Res, 2012. **E-Pub**: p. 1-13 Category: Cardiac & Cardiovascular Systems **Impact Factor: 2.611** Ranking: 45/117
39. Svahn, A.J., M.B. Graeber, **F. Ellett**, **G.J. Lieschke**, S. Rinkwitz, M.R. Bennett, and T.S. Becker, *Development of ramified microglia from early macrophages in the zebrafish optic tectum*. Dev Neurobiol, 2012. **E-pub**: p. 1-12 Category: Developmental Biology **Impact Factor: 2.855** Ranking: 19/38
40. **Sztaf, T.**, H. Chung, **S. Berger**, **P.D. Currie**, P. Batterham, and P.J. Daborn, *A cytochrome p450 conserved in insects is involved in cuticle formation*. PLoS One, 2012. **7**(5): p. e36544.1-9 Category: Biology **Impact Factor: 4.092** Ranking: 12/84
41. **Sztaf, T.E.**, **C. Sonntag**, **T.E. Hall**, and **P.D. Currie**, *Epistatic dissection of laminin-receptor interactions in dystrophic zebrafish muscle*. Hum Mol Genet, 2012. **21**(21): p. 4718-4731 Category: Biochemistry & Molecular Biology **Impact Factor: 7.636** Ranking: 31/289

42. **Teo, L., J. Homman-Ludiye, J. Rodger, and J.A. Bourne**, *Discrete ephrin-B1 expression by specific layers of the primate retinogeniculostriate system continues throughout postnatal and adult life*. *J Comp Neurol*, 2012. **520**(13): p. 2941-2956 Category: Neurosciences **Impact Factor: 3.808** Ranking: 69/243
43. Touvron, M., B. Escoubet, M. Mericskay, A. Angelini, L. Lamotte, M.P. Santini, **N. Rosenthal**, D. Daegelen, D. Tuil, and J.F. Decaux, *Locally expressed IGF1 propeptide improves mouse heart function in induced dilated cardiomyopathy by blocking myocardial fibrosis and SRF-dependent CTGF induction*. *Dis Model Mech*, 2012. **5**(4): p. 481-491 Category: Cell Biology **Impact Factor: 4.937** Ranking: 54/180
44. **Warner, C.E., W.C. Kwan, and J.A. Bourne**, *The Early Maturation of Visual Cortical Area MT is Dependent on Input from the Retinorecipient Medial Portion of the Inferior Pulvinar*. *J Neurosci*, 2012. **32**(48): p. 17073-17085 Category: Neurosciences **Impact Factor: 7.115** Ranking: 19/244
45. Wittmann, C., P. Chockley, S.K. Singh, L. Pase, **G.J. Lieschke**, and C. Grabher, *REVIEW: Hydrogen peroxide in inflammation: messenger, guide, and assassin*. *Adv Hematol*, 2012. **2012**: p. 541471.1-6