Robert J Bryson-Richardson

List of Publications by Year
in descending order

54 papers	7,452 citations	172457 29 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	17870 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	The genetics of vertebrate myogenesis. Nature Reviews Genetics, 2008, 9, 632-646.	16.3	227
3	Dystrophin is required for the formation of stable muscle attachments in the zebrafish embryo. Development (Cambridge), 2003, 130, 5851-5860.	2.5	225
4	Mutations in KLHL40 Are a Frequent Cause of Severe Autosomal-Recessive Nemaline Myopathy. American Journal of Human Genetics, 2013, 93, 6-18.	6.2	186
5	Whole-Somite Rotation Generates Muscle Progenitor Cell Compartments in the Developing Zebrafish Embryo. Developmental Cell, 2007, 12, 207-219.	7.0	163
6	The zebrafish candyfloss mutant implicates extracellular matrix adhesion failure in laminin Â2-deficient congenital muscular dystrophy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7092-7097.	7.1	154
7	Sample Drift Correction Following 4D Confocal Time-lapse Imaging. Journal of Visualized Experiments, 2014, , .	0.3	153
8	The structure and evolution of the melanocortin and MCH receptors in fish and mammals. Genomics, 2003, 81, 184-191.	2.9	139
9	Analysis of protein sequence and interaction data for candidate disease gene prediction. Nucleic Acids Research, 2006, 34, e130-e130.	14.5	138
10	Cadherin-Mediated Differential Cell Adhesion Controls Slow Muscle Cell Migration in the Developing Zebrafish Myotome. Developmental Cell, 2003, 5, 865-876.	7.0	85
11	Met and Hgf signaling controls hypaxial muscle and lateral line development in the zebrafish. Development (Cambridge), 2004, 131, 4857-4869.	2.5	73
12	Myosin heavy chain expression in zebrafish and slow muscle composition. Developmental Dynamics, 2005, 233, 1018-1022.	1.8	72
13	Zebrafish models of BAG3 myofibrillar myopathy suggest a toxic gain of function leading to BAG3 insufficiency. Acta Neuropathologica, 2014, 128, 821-833.	7.7	67
14	The role of ADHD associated genes in neurodevelopment. Developmental Biology, 2018, 438, 69-83.	2.0	65
15	Filamin C is a highly dynamic protein associated with fast repair of myofibrillar microdamage. Human Molecular Genetics, 2016, 25, ddw135.	2.9	58
16	FishNet: an online database of zebrafish anatomy. BMC Biology, 2007, 5, 34.	3.8	56
17	Linking lifeâ€history theory and metabolic theory explains the offspring sizeâ€temperature relationship. Ecology Letters, 2019, 22, 518-526.	6.4	54
18	The zebrafish dystrophic mutantsoftymaintains muscle fibre viability despite basement membrane rupture and muscle detachment. Development (Cambridge), 2009, 136, 3367-3376.	2.5	48

#	Article	IF	Citations
19	Using Touch-evoked Response and Locomotion Assays to Assess Muscle Performance and Function in Zebrafish. Journal of Visualized Experiments, 2016, , .	0.3	48
20	Zebrafish models for nemaline myopathy reveal a spectrum of nemaline bodies contributing to reduced muscle function. Acta Neuropathologica, 2015, 130, 389-406.	7.7	47
21	Genetic compensation triggered by actin mutation prevents the muscle damage caused by loss of actin protein. PLoS Genetics, 2018, 14, e1007212.	3.5	47
22	Variants in the Oxidoreductase PYROXD1 Cause Early-Onset Myopathy with Internalized Nuclei and Myofibrillar Disorganization. American Journal of Human Genetics, 2016, 99, 1086-1105.	6.2	45
23	FLNC myofibrillar myopathy results from impaired autophagy and protein insufficiency. Human Molecular Genetics, 2016, 25, 2131-2142.	2.9	44
24	The eIF4G-homolog p97 can activate translation independent of caspase cleavage. Rna, 2007, 13, 374-384.	3.5	43
25	Developmentally Restricted Actin-Regulatory Molecules Control Morphogenetic Cell Movements in the Zebrafish Gastrula. Current Biology, 2004, 14, 1632-1638.	3.9	40
26	Characterization and investigation of zebrafish models of filamin-related myofibrillar myopathy. Human Molecular Genetics, 2012, 21, 4073-4083.	2.9	40
27	Optical Projection Tomography for Spatio-Temporal Analysis in the Zebrafish. Methods in Cell Biology, 2004, 76, 37-50.	1.1	37
28	In Vivo Wall Shear Measurements within the Developing Zebrafish Heart. PLoS ONE, 2013, 8, e75722.	2.5	37
29	Morphogenesis and Cell Fate Determination within the Adaxial Cell Equivalence Group of the Zebrafish Myotome. PLoS Genetics, 2012, 8, e1003014.	3.5	33
30	Large-scale analysis of gene structure in rhodopsin-like GPCRs: evidence for widespread loss of an ancient intron. Gene, 2004, 338, 15-23.	2.2	31
31	Sequence Characterization of Teleost Fish Melanocortin Receptors. Annals of the New York Academy of Sciences, 2003, 994, 319-330.	3.8	30
32	Recent advances in understanding congenital myopathies. F1000Research, 2018, 7, 1921.	1.6	28
33	Zebrafish prox1b Mutants Develop a Lymphatic Vasculature, and prox1b Does Not Specifically Mark Lymphatic Endothelial Cells. PLoS ONE, 2011, 6, e28934.	2.5	27
34	KBTBD13 is an actin-binding protein that modulates muscle kinetics. Journal of Clinical Investigation, 2020, 130, 754-767.	8.2	25
35	Metformin rescues muscle function in BAG3 myofibrillar myopathy models. Autophagy, 2021, 17, 2494-2510.	9.1	22
36	Immuno Correlative Light and Electron Microscopy on Tokuyasu Cryosections. Methods in Cell Biology, 2014, 124, 241-258.	1.1	20

#	Article	IF	Citations
37	Testing of therapies in a novel nebulin nemaline myopathy model demonstrate a lack of efficacy. Acta Neuropathologica Communications, 2018, 6, 40.	5.2	19
38	L-tyrosine supplementation does not ameliorate skeletal muscle dysfunction in zebrafish and mouse models of dominant skeletal muscle Î±-actin nemaline myopathy. Scientific Reports, 2018, 8, 11490.	3.3	18
39	Does the cost of development scale allometrically with offspring size?. Functional Ecology, 2018, 32, 762-772.	3.6	16
40	Cardiac-phase filtering in intracardiac particle image velocimetry. Journal of Biomedical Optics, 2012, 17, 1.	2.6	12
41	Functional validation of CHMP7 as an ADHD risk gene. Translational Psychiatry, 2020, 10, 385.	4.8	11
42	The Zebrafish Anatomy Portal: A novel integrated resource to facilitate zebrafish research. Developmental Biology, 2012, 372, 1-4.	2.0	9
43	Bone morphogenetic protein/retinoic acid inducible neural-specific protein (brinp) expression during Danio rerio development. Gene Expression Patterns, 2015, 18, 37-43.	0.8	9
44	The Driving Mechanism for Unidirectional Blood Flow in the Tubular Embryonic Heart. Annals of Biomedical Engineering, 2016, 44, 3069-3083.	2.5	9
45	Production of zebrafish cardiospheres and cardiac progenitor cells in vitro and threeâ€dimensional culture of adult zebrafish cardiac tissue in scaffolds. Biotechnology and Bioengineering, 2017, 114, 2142-2148.	3.3	7
46	Genome-wide identification of conserved intronic non-coding sequences using a Bayesian segmentation approach. BMC Genomics, 2017, 18, 259.	2.8	5
47	246th ENMC International Workshop: Protein aggregate myopathies 24â€“26 May 2019, Hoofddorp, The Netherlands. Neuromuscular Disorders, 2021, 31, 158-166.	0.6	5
48	Novel preclinical model for CDKL5 deficiency disorder. DMM Disease Models and Mechanisms, 2022, 15, .	2.4	5
49	Comparison of different numerical treatments for x-ray phase tomography of soft tissue from differential phase projections. Physics in Medicine and Biology, 2015, 60, 3065-3080.	3.0	4
50	A transgenic zebrafish model of hepatocyte function in human Z Î±1-antitrypsin deficiency. Biological Chemistry, 2019, 400, 1603-1616.	2.5	3
51	The quail anatomy portal. Database: the Journal of Biological Databases and Curation, 2014, 2014, bau028-bau028.	3.0	1
52	Analysis of RNA Expression in Adult Zebrafish Skeletal Muscle. Methods in Molecular Biology, 2017, 1668, 27-35.	0.9	1
53	Advances in the Understanding of Skeletal Myopathies from Zebrafish Models. , 2018, , 151-183.		1
54	BAG3P215L/KO Mice as a Model of BAG3P209L Myofibrillar Myopathy. American Journal of Pathology, 2020, 190, 554-562.	3.8	1