

Xiaolei Xu

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

5,082
citations

279798

23
h-index

149698

56
g-index

69
all docs

69
docs citations

69
times ranked

11633
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	Cardiomyopathy in zebrafish due to mutation in an alternatively spliced exon of titin. <i>Nature Genetics</i> , 2002, 30, 205-209.	21.4	243
3	In vivo protein trapping produces a functional expression codex of the vertebrate proteome. <i>Nature Methods</i> , 2011, 8, 506-512.	19.0	169
4	Haploinsufficiency of Target of Rapamycin Attenuates Cardiomyopathies in Adult Zebrafish. <i>Circulation Research</i> , 2011, 109, 658-669.	4.5	115
5	Cardiac Transcriptome and Dilated Cardiomyopathy Genes in Zebrafish. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 261-269.	5.1	98
6	Quantifying Cardiac Functions in Embryonic and Adult Zebrafish. <i>Methods in Molecular Biology</i> , 2012, 843, 11-20.	0.9	91
7	Depletion of zebrafish Tcap leads to muscular dystrophy via disrupting sarcomere-membrane interaction, not sarcomere assembly. <i>Human Molecular Genetics</i> , 2009, 18, 4130-4140.	2.9	89
8	Depletion of Zebrafish Titin Reduces Cardiac Contractility by Disrupting the Assembly of Z-Discs and A-Bands. <i>Circulation Research</i> , 2007, 100, 238-245.	4.5	78
9	Cardiac Hypertrophy Involves Both Myocyte Hypertrophy and Hyperplasia in Anemic Zebrafish. <i>PLoS ONE</i> , 2009, 4, e6596.	2.5	77
10	Autophagy activators suppress cystogenesis in an autosomal dominant polycystic kidney disease model. <i>Human Molecular Genetics</i> , 2016, 26, ddw376.	2.9	67
11	Cardiac Light-Sheet Fluorescent Microscopy for Multi-Scale and Rapid Imaging of Architecture and Function. <i>Scientific Reports</i> , 2016, 6, 22489.	3.3	64
12	Myofibrillogenesis in the developing zebrafish heart: A functional study of tnnt2. <i>Developmental Biology</i> , 2009, 331, 237-249.	2.0	59
13	New and TALEnted Genome Engineering Toolbox. <i>Circulation Research</i> , 2013, 113, 571-587.	4.5	48
14	Trapping Cardiac Recessive Mutants via Expression-Based Insertional Mutagenesis Screening. <i>Circulation Research</i> , 2013, 112, 606-617.	4.5	47
15	A modifier screen identifies DNAJB6 as a cardiomyopathy susceptibility gene. <i>JCI Insight</i> , 2016, 1, .	5.0	42
16	Automated Segmentation of Light-Sheet Fluorescent Imaging to Characterize Experimental Doxorubicin-Induced Cardiac Injury and Repair. <i>Scientific Reports</i> , 2017, 7, 8603.	3.3	39
17	atg7-Based Autophagy Activation Reverses Doxorubicin-Induced Cardiotoxicity. <i>Circulation Research</i> , 2021, 129, e166-e182.	4.5	36
18	Phenotyping cardiomyopathy in adult zebrafish. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 138, 116-125.	2.9	35

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19	Knockout of SORBS2 Protein Disrupts the Structural Integrity of Intercalated Disc and Manifests Features of Arrhythmogenic Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2020, 9, e017055.	3.7	32
20	Actinin2 is required for the lateral alignment of Z-discs and ventricular chamber enlargement during zebrafish cardiogenesis. <i>FASEB Journal</i> , 2012, 26, 4230-4242.	0.5	30
21	Immunostaining of Dissected Zebrafish Embryonic Heart. <i>Journal of Visualized Experiments</i> , 2012, , e3510.	0.3	28
22	De novo RRAGC mutation activates mTORC1 signaling in syndromic fetal dilated cardiomyopathy. <i>Human Genetics</i> , 2016, 135, 909-917.	3.8	28
23	Exon- and contraction-dependent functions of titin in sarcomere assembly. <i>Development (Cambridge)</i> , 2016, 143, 4713-4722.	2.5	24
24	Real-Time Monitoring and Analysis of Zebrafish Electrocardiogram with Anomaly Detection. <i>Sensors</i> , 2018, 18, 61.	3.8	24
25	Retinoid X receptor alpha is a spatiotemporally predominant therapeutic target for anthracycline-induced cardiotoxicity. <i>Science Advances</i> , 2020, 6, eaay2939.	10.3	24
26	Phenotyping an adult zebrafish lamp2 cardiomyopathy model identifies mTOR inhibition as a candidate therapy. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 133, 199-208.	1.9	22
27	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. <i>PLoS ONE</i> , 2020, 15, e0232457.	2.5	21
28	Evidence of an Association between Age-Related Functional Modifications and Pathophysiological Changes in Zebrafish Heart. <i>Gerontology</i> , 2015, 61, 435-447.	2.8	20
29	A Langendorff-like system to quantify cardiac pump function in adult zebrafish. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	19
30	Cessation of contraction induces cardiomyocyte remodeling during zebrafish cardiogenesis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H382-H395.	3.2	17
31	Both ciliary and non-ciliary functions of Foxj1a confer Wnt/ β -catenin signaling in zebrafish left-right patterning. <i>Biology Open</i> , 2015, 4, 1376-1386.	1.2	17
32	Haploinsufficiency of mechanistic target of rapamycin ameliorates bag3 cardiomyopathy in adult zebrafish. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	17
33	A Doxorubicin-induced Cardiomyopathy Model in Adult Zebrafish. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	16
34	Modeling Inherited Cardiomyopathies in Adult Zebrafish for Precision Medicine. <i>Frontiers in Physiology</i> , 2020, 11, 599244.	2.8	15
35	Understanding Cardiac Sarcomere Assembly With Zebrafish Genetics. <i>Anatomical Record</i> , 2014, 297, 1681-1693.	1.4	14
36	Displacement analysis of myocardial mechanical deformation (DIAMOND) reveals segmental susceptibility to doxorubicin-induced injury and regeneration. <i>JCI Insight</i> , 2019, 4, .	5.0	13

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37	Systematic identification and characterization of cardiac long intergenic noncoding RNAs in zebrafish. <i>Scientific Reports</i> , 2017, 7, 1250.	3.3	12
38	Deep learning-based framework for cardiac function assessment in embryonic zebrafish from heart beating videos. <i>Computers in Biology and Medicine</i> , 2021, 135, 104565.	7.0	12
39	Induction of Wnt signaling antagonists and p21-activated kinase enhances cardiomyocyte proliferation during zebrafish heart regeneration. <i>Journal of Molecular Cell Biology</i> , 2021, 13, 41-58.	3.3	11
40	Building the vertebrate codex using the gene breaking protein trap library. <i>ELife</i> , 2020, 9, .	6.0	11
41	Acquisition, Processing and Analysis of Electrocardiogram in Awake Zebrafish. <i>IEEE Sensors Journal</i> , 2019, 19, 4283-4289.	4.7	10
42	mTOR Haploinsufficiency Ameliorates Renal Cysts and Cilia Abnormality in Adult Zebrafish <i>tmem67</i> Mutants. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 822-836.	6.1	10
43	Inhibition of mTOR or MAPK ameliorates <i>vmhcl/myh7</i> cardiomyopathy in zebrafish. <i>JCI Insight</i> , 2021, 6, .	5.0	10
44	How should colorectal surgeons practice during the COVID 19 epidemic? A retrospective single-centre analysis based on real-world data from China. <i>ANZ Journal of Surgery</i> , 2020, 90, 1310-1315.	0.7	9
45	A novel wireless ECG system for prolonged monitoring of multiple zebrafish for heart disease and drug screening studies. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113808.	10.1	9
46	Application of an FO-based genetic assay in adult zebrafish to identify modifier genes of an inherited cardiomyopathy. <i>DMM Disease Models and Mechanisms</i> , 2023, 16, .	2.4	9
47	Functions of the Wnt/ β -catenin pathway in an anemia-induced zebrafish model of cardiomyopathy are location dependent. <i>Biochemical and Biophysical Research Communications</i> , 2011, 415, 490-496.	2.1	8
48	Modeling GATAD1-Associated Dilated Cardiomyopathy in Adult Zebrafish. <i>Journal of Cardiovascular Development and Disease</i> , 2016, 3, 6.	1.6	7
49	TFEB Overexpression, Not mTOR Inhibition, Ameliorates RagCS75Y Cardiomyopathy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5494.	4.1	7
50	Effects of ventricular conduction block patterns on mortality in hospitalized patients with dilated cardiomyopathy: a single-center cohort study. <i>BMC Cardiovascular Disorders</i> , 2016, 16, 136.	1.7	6
51	Target of rapamycin (TOR)-based therapeutics for cardiomyopathy. <i>Cell Cycle</i> , 2012, 11, 428-429.	2.6	5
52	Continuous Electrocardiogram Monitoring in Zebrafish with Prolonged Mild Anesthesia. , 2020, 2020, 2610-2613.		4
53	Changes in ion channel expression and function associated with cardiac arrhythmogenic remodeling by Sorbs2. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166247.	3.8	4
54	Cardiac Troponin T (TNNT2) Mutations in Chinese Dilated Cardiomyopathy Patients. <i>BioMed Research International</i> , 2014, 2014, 1-7.	1.9	3

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55	A feasibility study for noninvasive measurement of shear wave speed in live zebrafish. Ultrasonics, 2020, 107, 106170.	3.9	3
56	Application of highly efficient and lowly toxic bufadienolides screened from toad skin in lymphatic chemotherapy for colorectal cancer through a lymphatic metastatic model. International Immunopharmacology, 2019, 70, 241-251.	3.8	2
57	A Swimming-based Assay to Determine the Exercise Capacity of Adult Zebrafish Cardiomyopathy Models. Bio-protocol, 2021, 11, e41114.	0.4	2
58	Characterization of Passive Wireless Electrocardiogram Acquisition in Adult Zebrafish. , 2018, , .		1
59	Abstract 047: Transgenic troponin T in Zebrafish recapitulates a Unique type of Cardiomyopathy. Circulation Research, 2013, 113, .	4.5	0
60	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. , 2020, 15, e0232457.		0
61	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. , 2020, 15, e0232457.		0
62	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. , 2020, 15, e0232457.		0
63	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. , 2020, 15, e0232457.		0