

Jau-Nian Chen

List of Publications by Year in descending order

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59
papers

4,296
citations

147726

31
h-index

182361

51
g-index

63
all docs

63
docs citations

63
times ranked

6147
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular and molecular analyses of vascular tube and lumen formation in zebrafish. <i>Development (Cambridge)</i> , 2005, 132, 5199-5209.	1.2	742
2	Genetic and cellular analyses of zebrafish atrioventricular cushion and valve development. <i>Development (Cambridge)</i> , 2005, 132, 4193-4204.	1.2	303
3	Patterning of angiogenesis in the zebrafish embryo. <i>Development (Cambridge)</i> , 2002, 129, 973-982.	1.2	270
4	heart of glass Regulates the Concentric Growth of the Heart in Zebrafish. <i>Current Biology</i> , 2003, 13, 2138-2147.	1.8	224
5	FoxH1 negatively modulates flk1 gene expression and vascular formation in zebrafish. <i>Developmental Biology</i> , 2007, 304, 735-744.	0.9	203
6	Rapid Analysis of Angiogenesis Drugs in a Live Fluorescent Zebrafish Assay. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003, 23, 911-912.	1.1	189
7	Scf Represses Cardiomyogenesis in Prospective Hemogenic Endothelium and Endocardium. <i>Cell</i> , 2012, 150, 590-605.	13.5	142
8	Fused has evolved divergent roles in vertebrate Hedgehog signalling and motile ciliogenesis. <i>Nature</i> , 2009, 459, 98-102.	13.7	140
9	Convergence of distinct pathways to heart patterning revealed by the small molecule concentramide and the mutation heart-and-soul. <i>Current Biology</i> , 2001, 11, 1481-1491.	1.8	139
10	santa and valentine pattern concentric growth of cardiac myocardium in the zebrafish. <i>Development (Cambridge)</i> , 2006, 133, 3139-3146.	1.2	128
11	A novel mitochondrial matrix serine/threonine protein phosphatase regulates the mitochondria permeability transition pore and is essential for cellular survival and development. <i>Genes and Development</i> , 2007, 21, 784-796.	2.7	125
12	High Resolution Structure and Double Electron-Electron Resonance of the Zebrafish Voltage-dependent Anion Channel 2 Reveal an Oligomeric Population. <i>Journal of Biological Chemistry</i> , 2014, 289, 12566-12577.	1.6	116
13	RBFox1-mediated RNA splicing regulates cardiac hypertrophy and heart failure. <i>Journal of Clinical Investigation</i> , 2015, 126, 195-206.	3.9	114
14	The dynein regulatory complex is required for ciliary motility and otolith biogenesis in the inner ear. <i>Nature</i> , 2009, 457, 205-209.	13.7	110
15	A betaPix Pak2a signaling pathway regulates cerebral vascular stability in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13990-13995.	3.3	107
16	Na,K-ATPase is essential for embryonic heart development in the zebrafish. <i>Development (Cambridge)</i> , 2003, 130, 6165-6173.	1.2	99
17	Mutation in sodium-calcium exchanger 1 (NCX1) causes cardiac fibrillation in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17699-17704.	3.3	92
18	Morphogenesis of Prechordal Plate and Notochord Requires Intact Eph/Ephrin B Signaling. <i>Developmental Biology</i> , 2001, 234, 470-482.	0.9	70

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19	Two developmentally distinct populations of neural crest cells contribute to the zebrafish heart. <i>Developmental Biology</i> , 2015, 404, 103-112.	0.9	68
20	Mitochondrial Ca ²⁺ uptake by the voltage-dependent anion channel 2 regulates cardiac rhythmicity. <i>ELife</i> , 2015, 4, .	2.8	67
21	Aplexone targets the HMG-CoA reductase pathway and differentially regulates arteriovenous angiogenesis. <i>Development (Cambridge)</i> , 2011, 138, 1173-1181.	1.2	59
22	Tbx20 drives cardiac progenitor formation and cardiomyocyte proliferation in zebrafish. <i>Developmental Biology</i> , 2017, 421, 139-148.	0.9	52
23	Differential rescue of visceral and cardiac defects in <i>Drosophila</i> by vertebrate <i>tinman</i> -related genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 9366-9371.	3.3	49
24	The PAF1 complex component <i>Leo1</i> is essential for cardiac and neural crest development in zebrafish. <i>Developmental Biology</i> , 2010, 341, 167-175.	0.9	49
25	Bone morphogenetic protein-4 expression characterizes inductive boundaries in organs of developing zebrafish. <i>Development Genes and Evolution</i> , 1997, 207, 107-114.	0.4	47
26	Na,K-ATPase β 2 and <i>Ncx4a</i> regulate zebrafish left-right patterning. <i>Development (Cambridge)</i> , 2007, 134, 1921-1930.	1.2	47
27	Regulation of <i>Sufu</i> activity by <i>p66β</i> and <i>Mycbp</i> provides new insight into vertebrate Hedgehog signaling. <i>Genes and Development</i> , 2014, 28, 2547-2563.	2.7	42
28	The PAF1 complex differentially regulates cardiomyocyte specification. <i>Developmental Biology</i> , 2011, 353, 19-28.	0.9	41
29	Multiscale light-sheet for rapid imaging of cardiopulmonary system. <i>JCI Insight</i> , 2018, 3, .	2.3	36
30	Genetic Steps to Organ Laterality in Zebrafish. <i>Comparative and Functional Genomics</i> , 2001, 2, 60-68.	2.0	35
31	<i>NXT2</i> is required for embryonic heart development in zebrafish. <i>BMC Developmental Biology</i> , 2005, 5, 7.	2.1	35
32	Zebrafish as a model for cardiovascular development and disease. <i>Drug Discovery Today: Disease Models</i> , 2008, 5, 135-140.	1.2	35
33	The Calcineurin-FoxO-MuRF1 signaling pathway regulates myofibril integrity in cardiomyocytes. <i>ELife</i> , 2017, 6, .	2.8	33
34	Systems proteomics of cardiac chromatin identifies nucleolin as a regulator of growth and cellular plasticity in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1624-H1638.	1.5	31
35	Involvement of zebrafish Na ⁺ ,K ⁺ ATPase in myocardial cell junction maintenance. <i>Journal of Cell Biology</i> , 2007, 176, 223-230.	2.3	28
36	Catalytic Enantioselective Synthesis of Guvacine Derivatives through [4 + 2] Annulations of Imines with β -Methylallenoates. <i>Organic Letters</i> , 2018, 20, 6089-6093.	2.4	28

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37	Transcriptional Regulation of Heart Development in Zebrafish. <i>Journal of Cardiovascular Development and Disease</i> , 2016, 3, 14.	0.8	25
38	Conformational changes of a Ca ²⁺ -binding domain of the Na ⁺ /Ca ²⁺ exchanger monitored by FRET in transgenic zebrafish heart. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C388-C393.	2.1	24
39	Evolving Cardiac Conduction Phenotypes in Developing Zebrafish Larvae: Implications to Drug Sensitivity. <i>Zebrafish</i> , 2010, 7, 325-331.	0.5	24
40	The Arrhythmogenic Calmodulin Mutation D129G Dysregulates Cell Growth, Calmodulin-dependent Kinase II Activity, and Cardiac Function in Zebrafish. <i>Journal of Biological Chemistry</i> , 2016, 291, 26636-26646.	1.6	24
41	NADPH Oxidase 4 Induces Cardiac Arrhythmic Phenotype in Zebrafish. <i>Journal of Biological Chemistry</i> , 2014, 289, 23200-23208.	1.6	23
42	Calcium signaling: A common thread in vertebrate left-right axis development. <i>Developmental Dynamics</i> , 2008, 237, 3491-3496.	0.8	15
43	Mitochondrial Calcium Uniporter Deficiency in Zebrafish Causes Cardiomyopathy With Arrhythmia. <i>Frontiers in Physiology</i> , 2020, 11, 617492.	1.3	14
44	Sodium pump activity in the yolk syncytial layer regulates zebrafish heart tube morphogenesis. <i>Developmental Biology</i> , 2012, 362, 263-270.	0.9	13
45	A Forward Genetic Screen Targeting the Endothelium Reveals a Regulatory Role for the Lipid Kinase Pi4ka in Myelo- and Erythropoiesis. <i>Cell Reports</i> , 2018, 22, 1211-1224.	2.9	13
46	A High-Content Screen Identifies Drugs That Restrict Tumor Cell Extravasation across the Endothelial Barrier. <i>Cancer Research</i> , 2021, 81, 619-633.	0.4	8
47	Mutation in utp15 Disrupts Vascular Patterning in a p53-Dependent Manner in Zebrafish Embryos. <i>PLoS ONE</i> , 2011, 6, e25013.	1.1	8
48	Cardiogenesis and the Regulation of Cardiac-Specific Gene Expression. <i>Heart Failure Clinics</i> , 2005, 1, 157-170.	1.0	4
49	Glutamate 73 Promotes Anti-arrhythmic Effects of Voltage-Dependent Anion Channel Through Regulation of Mitochondrial Ca ²⁺ Uptake. <i>Frontiers in Physiology</i> , 2021, 12, 724828.	1.3	4
50	Regulation of Voltage-Dependent Anion Channel 2 at Glutamate 73 is Critical for its Role in Cardiac Calcium Handling. <i>Biophysical Journal</i> , 2012, 102, 312a.	0.2	1
51	Abstract 17251: Visualization of Neural Crest Cell Migration to the Dorsal Surface of Developing Zebrafish Myocardium. <i>Circulation</i> , 2018, 138, .	1.6	1
52	A Novel Mitochondrial Matrix Serine/Threonine Protein Phosphatase Is Essential to Cardiomyocyte Survival and Cardiac Function by Regulating Mitochondrial Permeability Transition. <i>Journal of Cardiac Failure</i> , 2006, 12, S42.	0.7	0
53	Regulation of Vertebrate Left-Right Axis Development by Calcium. , 2010, , 1885-1890.		0
54	NADPH oxidase 4 induces cardiac arrhythmia in zebrafish through ROS. <i>FASEB Journal</i> , 2012, 26, 692.8.	0.2	0

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55	In vivo screening of chromatin remodelers in zebrafish reveals proteins governing cardiac growth. FASEB Journal, 2012, 26, 1134.15.	0.2	0
56	A dual role for Nucleolin identified by systems analysis of cardiac chromatin remodelers. FASEB Journal, 2013, 27, 1213.1.	0.2	0
57	Abstract 235: Global RNA Splicing and Regulation in Cardiac Maturation and Diseases. Circulation Research, 2013, 113, .	2.0	0
58	Genetic dissection of heart development. , 1998, , 7-17.		0
59	Abstract 15: Global RNA Splicing Regulation in Cardiac Maturation. Circulation Research, 2015, 117, .	2.0	0