Jau-Nian Chen

List of Publications by Year
in descending order

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59 papers	4,296 citations	147566 31 h-index	182168 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. Development (Cambridge), 2005, 132, 5199-5209.	1.2	742
2	Genetic and cellular analyses of zebrafish atrioventricular cushion and valve development. Development (Cambridge), 2005, 132, 4193-4204.	1.2	303
3	Patterning of angiogenesis in the zebrafish embryo. Development (Cambridge), 2002, 129, 973-982.	1.2	270
4	heart of glass Regulates the Concentric Growth of the Heart in Zebrafish. Current Biology, 2003, 13, 2138-2147.	1.8	224
5	FoxH1 negatively modulates flk1 gene expression and vascular formation in zebrafish. Developmental Biology, 2007, 304, 735-744.	0.9	203
6	Rapid Analysis of Angiogenesis Drugs in a Live Fluorescent Zebrafish Assay. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 911-912.	1.1	189
7	Scl Represses Cardiomyogenesis in Prospective Hemogenic Endothelium and Endocardium. Cell, 2012, 150, 590-605.	13.5	142
8	Fused has evolved divergent roles in vertebrate Hedgehog signalling and motile ciliogenesis. Nature, 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. Current Biology, 2001, 11, 1481-1491.	1.8	139
10	santa and valentine pattern concentric growth of cardiac myocardium in the zebrafish. Development (Cambridge), 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. Genes and Development, 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. Journal of Biological Chemistry, 2014, 289, 12566-12577.	1.6	116
13	RBFox1-mediated RNA splicing regulates cardiac hypertrophy and heart failure. Journal of Clinical Investigation, 2015, 126, 195-206.	3.9	114
14	The dynein regulatory complex is required for ciliary motility and otolith biogenesis in the inner ear. Nature, 2009, 457, 205-209.	13.7	110
15	A betaPix Pak2a signaling pathway regulates cerebral vascular stability in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13990-13995.	3.3	107
16	Na,K-ATPase is essential for embryonic heart development in the zebrafish. Development (Cambridge), 2003, 130, 6165-6173.	1.2	99
17	Mutation in sodium-calcium exchanger 1 (NCX1) causes cardiac fibrillation in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17699-17704.	3.3	92
18	Morphogenesis of Prechordal Plate and Notochord Requires Intact Eph/Ephrin B Signaling. Developmental Biology, 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. Developmental Biology, 2015, 404, 103-112.	0.9	68
20	Mitochondrial Ca2+ uptake by the voltage-dependent anion channel 2 regulates cardiac rhythmicity. ELife, 2015, 4, .	2.8	67
21	Aplexone targets the HMG-CoA reductase pathway and differentially regulates arteriovenous angiogenesis. Development (Cambridge), 2011, 138, 1173-1181.	1.2	59
22	Tbx20 drives cardiac progenitor formation and cardiomyocyte proliferation in zebrafish. Developmental Biology, 2017, 421, 139-148.	0.9	52
23	Differential rescue of visceral and cardiac defects inDrosophilaby vertebratetinman-related genes. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9366-9371.	3.3	49
24	The PAF1 complex component Leo1 is essential for cardiac and neural crest development in zebrafish. Developmental Biology, 2010, 341, 167-175.	0.9	49
25	Bone morphogenetic protein-4 expression characterizes inductive boundaries in organs of developing zebrafish. Development Genes and Evolution, 1997, 207, 107-114.	0.4	47
26	Na,K-ATPase Î±2 and Ncx4a regulate zebrafish left-right patterning. Development (Cambridge), 2007, 134, 1921-1930.	1.2	47
27	Regulation of Sufu activity by p66Î² and Mycbp provides new insight into vertebrate Hedgehog signaling. Genes and Development, 2014, 28, 2547-2563.	2.7	42
28	The PAF1 complex differentially regulates cardiomyocyte specification. Developmental Biology, 2011, 353, 19-28.	0.9	41
29	Multiscale light-sheet for rapid imaging of cardiopulmonary system. JCI Insight, 2018, 3, .	2.3	36
30	Genetic Steps to Organ Laterality in Zebrafish. Comparative and Functional Genomics, 2001, 2, 60-68.	2.0	35
31	NXT2 is required for embryonic heart development in zebrafish. BMC Developmental Biology, 2005, 5, 7.	2.1	35
32	Zebrafish as a model for cardiovascular development and disease. Drug Discovery Today: Disease Models, 2008, 5, 135-140.	1.2	35
33	The Calcineurin-FoxO-MuRF1 signaling pathway regulates myofibril integrity in cardiomyocytes. ELife, 2017, 6, .	2.8	33
34	Systems proteomics of cardiac chromatin identifies nucleolin as a regulator of growth and cellular plasticity in cardiomyocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1624-H1638.	1.5	31
35	Involvement of zebrafish Na+,K+ ATPase in myocardial cell junction maintenance. Journal of Cell Biology, 2007, 176, 223-230.	2.3	28
36	Catalytic Enantioselective Synthesis of Guvacine Derivatives through [4 + 2] Annulations of Imines with Î±-Methylallenoates. Organic Letters, 2018, 20, 6089-6093.	2.4	28

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37	Transcriptional Regulation of Heart Development in Zebrafish. Journal of Cardiovascular Development and Disease, 2016, 3, 14.	0.8	25
38	Conformational changes of a Ca²⁺-binding domain of the Na⁺/Ca²⁺exchanger monitored by FRET in transgenic zebrafish heart. American Journal of Physiology - Cell Physiology, 2008, 295, C388-C393.	2.1	24
39	Evolving Cardiac Conduction Phenotypes in Developing Zebrafish Larvae: Implications to Drug Sensitivity. Zebrafish, 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. Journal of Biological Chemistry, 2016, 291, 26636-26646.	1.6	24
41	NADPH Oxidase 4 Induces Cardiac Arrhythmic Phenotype in Zebrafish. Journal of Biological Chemistry, 2014, 289, 23200-23208.	1.6	23
42	Calcium signaling: A common thread in vertebrate leftâ€“right axis development. Developmental Dynamics, 2008, 237, 3491-3496.	0.8	15
43	Mitochondrial Calcium Uniporter Deficiency in Zebrafish Causes Cardiomyopathy With Arrhythmia. Frontiers in Physiology, 2020, 11, 617492.	1.3	14
44	Sodium pump activity in the yolk syncytial layer regulates zebrafish heart tube morphogenesis. Developmental Biology, 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. Cell Reports, 2018, 22, 1211-1224.	2.9	13
46	A High-Content Screen Identifies Drugs That Restrict Tumor Cell Extravasation across the Endothelial Barrier. Cancer Research, 2021, 81, 619-633.	0.4	8
47	Mutation in utp15 Disrupts Vascular Patterning in a p53-Dependent Manner in Zebrafish Embryos. PLoS ONE, 2011, 6, e25013.	1.1	8
48	Cardiogenesis and the Regulation of Cardiac-Specific Gene Expression. Heart Failure Clinics, 2005, 1, 157-170.	1.0	4
49	Glutamate 73 Promotes Anti-arrhythmic Effects of Voltage-Dependent Anion Channel Through Regulation of Mitochondrial Ca2+ Uptake. Frontiers in Physiology, 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. Biophysical Journal, 2012, 102, 312a.	0.2	1
51	Abstract 17251: Visualization of Neural Crest Cell Migration to the Dorsal Surface of Developing Zebrafish Myocardium. Circulation, 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. Journal of Cardiac Failure, 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. FASEB Journal, 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