Neil C Chi

List of Publications by Year
in descending order

62 papers	7,927 citations	76196 40 h-index	133063 59 g-index
68 all docs	68 docs citations	68 times ranked	13583 citing authors

#	Article	IF	Citations
1	<i>Ankfn1</i>-mutant vestibular defects require loss of both ancestral and derived paralogs for penetrance in zebrafish. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	0
2	Cardiac Morphogenesis: Crowding and Tension Resolved through Social Distancing. Developmental Cell, 2021, 56, 159-160.	3.1	0
3	Cardiac cell typeâ€"specific gene regulatory programs and disease risk association. Science Advances, 2021, 7, .	4.7	63
4	Unveiling Complexity and Multipotentiality of Early Heart Fields. Circulation Research, 2021, 129, 474-487.	2.0	50
5	A convergent molecular network underlying autism and congenital heart disease. Cell Systems, 2021, 12, 1094-1107.e6.	2.9	19
6	Genome-wide association and multi-omic analyses reveal ACTN2 as a gene linked to heart failure. Nature Communications, 2020, 11, 1122.	5.8	57
7	Cardiac function modulates endocardial cell dynamics to shape the cardiac outflow tract. Development (Cambridge), 2020, 147, .	1.2	6
8	Transcriptionally active HERV-H retrotransposons demarcate topologically associating domains in human pluripotent stem cells. Nature Genetics, 2019, 51, 1380-1388.	9.4	236
9	Canonical Wnt5b Signaling Directs Outlying Nkx2.5+ Mesoderm into Pacemaker Cardiomyocytes. Developmental Cell, 2019, 50, 729-743.e5.	3.1	58
10	Combinatorial interactions of genetic variants in human cardiomyopathy. Nature Biomedical Engineering, 2019, 3, 147-157.	11.6	37
11	Hemodynamic-mediated endocardial signaling controls in vivo myocardial reprogramming. ELife, 2019, 8, .	2.8	30
12	Cell-Surface Marker Signature for Enrichment of Ventricular Cardiomyocytes Derived from Human Embryonic Stem Cells. Stem Cell Reports, 2018, 11, 828-841.	2.3	37
13	Biallelic mutations in the 3â€² exonuclease TOE1 cause pontocerebellar hypoplasia and uncover a role in snRNA processing. Nature Genetics, 2017, 49, 457-464.	9.4	66
14	FGF signaling enforces cardiac chamber identity in the developing ventricle. Development (Cambridge), 2017, 144, 1328-1338.	1.2	36
15	Impaired mitophagy facilitates mitochondrial damage in Danon disease. Journal of Molecular and Cellular Cardiology, 2017, 108, 86-94.	0.9	57
16	Genome editing of factor X in zebrafish reveals unexpected tolerance of severe defects in the common pathway. Blood, 2017, 130, 666-676.	0.6	22
17	iPSCORE: A Resource of 222 iPSC Lines Enabling Functional Characterization of Genetic Variation across a Variety of Cell Types. Stem Cell Reports, 2017, 8, 1086-1100.	2.3	147
18	Re-evaluating functional landscape of the cardiovascular system during development. Biology Open, 2017, 6, 1756-1770.	0.6	6

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19	Myocardial plasticity: cardiac development, regeneration and disease. Current Opinion in Genetics and Development, 2016, 40, 120-130.	1.5	23
20	Biallelic Mutations in Citron Kinase Link Mitotic Cytokinesis to Human Primary Microcephaly. American Journal of Human Genetics, 2016, 99, 501-510.	2.6	70
21	Cloche is a bHLH-PAS transcription factor that drives haemato-vascular specification. Nature, 2016, 535, 294-298.	13.7	151
22	Coordinating cardiomyocyte interactions to direct ventricular chamber morphogenesis. Nature, 2016, 534, 700-704.	13.7	75
23	4-Dimensional light-sheet microscopy to elucidate shear stress modulation of cardiac trabeculation. Journal of Clinical Investigation, 2016, 126, 1679-1690.	3.9	100
24	Inactivating mutations in MFSD2A, required for omega-3 fatty acid transport in brain, cause a lethal microcephaly syndrome. Nature Genetics, 2015, 47, 809-813.	9.4	180
25	Integrative analysis of haplotype-resolved epigenomes across human tissues. Nature, 2015, 518, 350-354.	13.7	201
26	Notch signaling regulates venous arterialization during zebrafish fin regeneration. Genes To Cells, 2015, 20, 427-438.	0.5	17
27	Brief Report: Oxidative Stress Mediates Cardiomyocyte Apoptosis in a Human Model of Danon Disease and Heart Failure. Stem Cells, 2015, 33, 2343-2350.	1.4	74
28	Polo-like kinase 2 regulates angiogenic sprouting and blood vessel development. Developmental Biology, 2015, 404, 49-60.	0.9	14
29	Mutations in KATNB1 Cause Complex Cerebral Malformations by Disrupting Asymmetrically Dividing Neural Progenitors. Neuron, 2014, 84, 1226-1239.	3.8	95
30	Shear Stressâ€"Activated Wnt-Angiopoietin-2 Signaling Recapitulates Vascular Repair in Zebrafish Embryos. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2268-2275.	1.1	58
31	Human Heart Rate. Journal of the American College of Cardiology, 2014, 63, 358-368.	1.2	11
32	The atypical Rho GTPase, RhoU, regulates cell-adhesion molecules during cardiac morphogenesis. Developmental Biology, 2014, 389, 182-191.	0.9	19
33	Efficient Generation of Human iPSCs by a Synthetic Self-Replicative RNA. Cell Stem Cell, 2013, 13, 246-254.	5.2	253
34	In vivo cardiac reprogramming contributes to zebrafish heart regeneration. Nature, 2013, 498, 497-501.	13.7	229
35	Epigenomic Analysis of Multilineage Differentiation of Human Embryonic Stem Cells. Cell, 2013, 153, 1134-1148.	13.5	689
36	3-OST-7 Regulates BMP-Dependent Cardiac Contraction. PLoS Biology, 2013, 11, e1001727.	2.6	19

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37	UBIAD1-mediated vitamin K2 synthesis is required for vascular endothelial cell survival and development. Development (Cambridge), 2013, 140, 1713-1719.	1.2	45
38	An evolutionarily conserved program of B-cell development and activation in zebrafish. Blood, 2013, 122, e1-e11.	0.6	163
39	Moving Domain Computational Fluid Dynamics to Interface with an Embryonic Model of Cardiac Morphogenesis. PLoS ONE, 2013, 8, e72924.	1.1	51
40	Canonical Wnt/ Î²â€•catenin Signaling Pathway mediates Shear Stressâ€•Activated Angiopoeitinâ€•2 expression and vasculogenesis. FASEB Journal, 2013, 27, 526.6.	0.2	0
41	Zebrafish models in cardiac development and congenital heart birth defects. Differentiation, 2012, 84, 4-16.	1.0	90
42	BIN1 is reduced and Cav1.2 trafficking is impaired in human failing cardiomyocytes. Heart Rhythm, 2012, 9, 812-820.	0.3	134
43	Flexible microelectrode arrays to interface epicardial electrical signals with intracardial calcium transients in zebrafish hearts. Biomedical Microdevices, 2012, 14, 357-366.	1.4	50
44	Ccm3 functions in a manner distinct from Ccm1 and Ccm2 in a zebrafish model of CCM vascular disease. Developmental Biology, 2012, 362, 121-131.	0.9	78
45	Shear Stressâ€•Activated Angiopoeitinâ€•2 Modulates Endothelial Cell Repairs and Vasculogenesis via Wnt/Î²â€•catenin Signaling Pathway. FASEB Journal, 2012, 26, 525.4.	0.2	0
46	<i>Iroquois homeobox gene 3</i> establishes fast conduction in the cardiac Hisâ€"Purkinje network. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13576-13581.	3.3	109
47	Identification of Distal <i>cis</i>-Regulatory Elements at Mouse Mitoferrin Loci Using Zebrafish Transgenesis. Molecular and Cellular Biology, 2011, 31, 1344-1356.	1.1	31
48	Haematopoietic stem cells derive directly from aortic endothelium during development. Nature, 2010, 464, 108-111.	13.7	885
49	Evolving Cardiac Conduction Phenotypes in Developing Zebrafish Larvae: Implications to Drug Sensitivity. Zebrafish, 2010, 7, 325-331.	0.5	24
50	Cardiac conduction is required to preserve cardiac chamber morphology. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14662-14667.	3.3	103
51	Limited forward trafficking of connexin 43 reduces cell-cell coupling in stressed human and mouse myocardium. Journal of Clinical Investigation, 2010, 120, 266-279.	3.9	213
52	ccbe1 is required for embryonic lymphangiogenesis and venous sprouting. Nature Genetics, 2009, 41, 396-398.	9.4	409
53	Loss of Dnmt1 catalytic activity reveals multiple roles for DNA methylation during pancreas development and regeneration. Developmental Biology, 2009, 334, 213-223.	0.9	139
54	Combinatorial Regulation of Endothelial Gene Expression by Ets and Forkhead Transcription Factors. Cell, 2008, 135, 1053-1064.	13.5	306

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55	Foxn4 directly regulates <i>tbx2b</i> expression and atrioventricular canal formation. Genes and Development, 2008, 22, 734-739.	2.7	339
56	Genetic and Physiologic Dissection of the Vertebrate Cardiac Conduction System. PLoS Biology, 2008, 6, e109.	2.6	233
57	A transgene-assisted genetic screen identifies essential regulators of vascular development in vertebrate embryos. Developmental Biology, 2007, 307, 29-42.	0.9	123
58	Zebrafish model for human long QT syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11316-11321.	3.3	215
59	Targeting neural circuitry in zebrafish using GAL4 enhancer trapping. Nature Methods, 2007, 4, 323-326.	9.0	375
60	Molecular determinants of responses to myocardial ischemia/reperfusion injury: focus on hypoxia-inducible and heat shock factors. Cardiovascular Research, 2004, 61, 437-447.	1.8	95
61	Getting your Pax straight: Pax proteins in development and disease. Trends in Genetics, 2002, 18, 41-47.	2.9	410
62	Different Binding Domains for Ran-GTP and Ran-GDP/RanBP1 on Nuclear Import Factor p97. Journal of Biological Chemistry, 1997, 272, 6818-6822.	1.6	81