

Neil C Chi

List of Publications by Year in descending order

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Version: 2024-02-01

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	Haematopoietic stem cells derive directly from aortic endothelium during development. <i>Nature</i> , 2010, 464, 108-111.	13.7	885
2	Epigenomic Analysis of Multilineage Differentiation of Human Embryonic Stem Cells. <i>Cell</i> , 2013, 153, 1134-1148.	13.5	689
3	Getting your Pax straight: Pax proteins in development and disease. <i>Trends in Genetics</i> , 2002, 18, 41-47.	2.9	410
4	ccbe1 is required for embryonic lymphangiogenesis and venous sprouting. <i>Nature Genetics</i> , 2009, 41, 396-398.	9.4	409
5	Targeting neural circuitry in zebrafish using GAL4 enhancer trapping. <i>Nature Methods</i> , 2007, 4, 323-326.	9.0	375
6	Foxn4 directly regulates <i>tbx2b</i> expression and atrioventricular canal formation. <i>Genes and Development</i> , 2008, 22, 734-739.	2.7	339
7	Combinatorial Regulation of Endothelial Gene Expression by Ets and Forkhead Transcription Factors. <i>Cell</i> , 2008, 135, 1053-1064.	13.5	306
8	Efficient Generation of Human iPSCs by a Synthetic Self-Replicative RNA. <i>Cell Stem Cell</i> , 2013, 13, 246-254.	5.2	253
9	Transcriptionally active HERV-H retrotransposons demarcate topologically associating domains in human pluripotent stem cells. <i>Nature Genetics</i> , 2019, 51, 1380-1388.	9.4	236
10	Genetic and Physiologic Dissection of the Vertebrate Cardiac Conduction System. <i>PLoS Biology</i> , 2008, 6, e109.	2.6	233
11	In vivo cardiac reprogramming contributes to zebrafish heart regeneration. <i>Nature</i> , 2013, 498, 497-501.	13.7	229
12	Zebrafish model for human long QT syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11316-11321.	3.3	215
13	Limited forward trafficking of connexin 43 reduces cell-cell coupling in stressed human and mouse myocardium. <i>Journal of Clinical Investigation</i> , 2010, 120, 266-279.	3.9	213
14	Integrative analysis of haplotype-resolved epigenomes across human tissues. <i>Nature</i> , 2015, 518, 350-354.	13.7	201
15	Inactivating mutations in MFSD2A, required for omega-3 fatty acid transport in brain, cause a lethal microcephaly syndrome. <i>Nature Genetics</i> , 2015, 47, 809-813.	9.4	180
16	An evolutionarily conserved program of B-cell development and activation in zebrafish. <i>Blood</i> , 2013, 122, e1-e11.	0.6	163
17	Cloche is a bHLH-PAS transcription factor that drives haemato-vascular specification. <i>Nature</i> , 2016, 535, 294-298.	13.7	151
18	iPSCORE: A Resource of 222 iPSC Lines Enabling Functional Characterization of Genetic Variation across a Variety of Cell Types. <i>Stem Cell Reports</i> , 2017, 8, 1086-1100.	2.3	147

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19	Loss of Dnmt1 catalytic activity reveals multiple roles for DNA methylation during pancreas development and regeneration. <i>Developmental Biology</i> , 2009, 334, 213-223.	0.9	139
20	BIN1 is reduced and Cav1.2 trafficking is impaired in human failing cardiomyocytes. <i>Heart Rhythm</i> , 2012, 9, 812-820.	0.3	134
21	A transgene-assisted genetic screen identifies essential regulators of vascular development in vertebrate embryos. <i>Developmental Biology</i> , 2007, 307, 29-42.	0.9	123
22	<i>Iroquois</i> homeobox gene 3 establishes fast conduction in the cardiac His-Purkinje network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13576-13581.	3.3	109
23	Cardiac conduction is required to preserve cardiac chamber morphology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14662-14667.	3.3	103
24	4-Dimensional light-sheet microscopy to elucidate shear stress modulation of cardiac trabeculation. <i>Journal of Clinical Investigation</i> , 2016, 126, 1679-1690.	3.9	100
25	Molecular determinants of responses to myocardial ischemia/reperfusion injury: focus on hypoxia-inducible and heat shock factors. <i>Cardiovascular Research</i> , 2004, 61, 437-447.	1.8	95
26	Mutations in KATNB1 Cause Complex Cerebral Malformations by Disrupting Asymmetrically Dividing Neural Progenitors. <i>Neuron</i> , 2014, 84, 1226-1239.	3.8	95
27	Zebrafish models in cardiac development and congenital heart birth defects. <i>Differentiation</i> , 2012, 84, 4-16.	1.0	90
28	Different Binding Domains for Ran-GTP and Ran-GDP/RanBP1 on Nuclear Import Factor p97. <i>Journal of Biological Chemistry</i> , 1997, 272, 6818-6822.	1.6	81
29	Ccm3 functions in a manner distinct from Ccm1 and Ccm2 in a zebrafish model of CCM vascular disease. <i>Developmental Biology</i> , 2012, 362, 121-131.	0.9	78
30	Coordinating cardiomyocyte interactions to direct ventricular chamber morphogenesis. <i>Nature</i> , 2016, 534, 700-704.	13.7	75
31	Brief Report: Oxidative Stress Mediates Cardiomyocyte Apoptosis in a Human Model of Danon Disease and Heart Failure. <i>Stem Cells</i> , 2015, 33, 2343-2350.	1.4	74
32	Biallelic Mutations in Citron Kinase Link Mitotic Cytokinesis to Human Primary Microcephaly. <i>American Journal of Human Genetics</i> , 2016, 99, 501-510.	2.6	70
33	Biallelic mutations in the 3' exonuclease TOE1 cause pontocerebellar hypoplasia and uncover a role in snRNA processing. <i>Nature Genetics</i> , 2017, 49, 457-464.	9.4	66
34	Cardiac cell type-specific gene regulatory programs and disease risk association. <i>Science Advances</i> , 2021, 7, .	4.7	63
35	Shear Stress-Activated Wnt-Angiopoietin-2 Signaling Recapitulates Vascular Repair in Zebrafish Embryos. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2268-2275.	1.1	58
36	Canonical Wnt5b Signaling Directs Outlying Nrx2.5+ Mesoderm into Pacemaker Cardiomyocytes. <i>Developmental Cell</i> , 2019, 50, 729-743.e5.	3.1	58

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37	Impaired mitophagy facilitates mitochondrial damage in Danon disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 108, 86-94.	0.9	57
38	Genome-wide association and multi-omic analyses reveal ACTN2 as a gene linked to heart failure. <i>Nature Communications</i> , 2020, 11, 1122.	5.8	57
39	Moving Domain Computational Fluid Dynamics to Interface with an Embryonic Model of Cardiac Morphogenesis. <i>PLoS ONE</i> , 2013, 8, e72924.	1.1	51
40	Flexible microelectrode arrays to interface epicardial electrical signals with intracardial calcium transients in zebrafish hearts. <i>Biomedical Microdevices</i> , 2012, 14, 357-366.	1.4	50
41	Unveiling Complexity and Multipotentiality of Early Heart Fields. <i>Circulation Research</i> , 2021, 129, 474-487.	2.0	50
42	UBIAD1-mediated vitamin K2 synthesis is required for vascular endothelial cell survival and development. <i>Development (Cambridge)</i> , 2013, 140, 1713-1719.	1.2	45
43	Cell-Surface Marker Signature for Enrichment of Ventricular Cardiomyocytes Derived from Human Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2018, 11, 828-841.	2.3	37
44	Combinatorial interactions of genetic variants in human cardiomyopathy. <i>Nature Biomedical Engineering</i> , 2019, 3, 147-157.	11.6	37
45	FGF signaling enforces cardiac chamber identity in the developing ventricle. <i>Development (Cambridge)</i> , 2017, 144, 1328-1338.	1.2	36
46	Identification of Distal <i>cis</i> -Regulatory Elements at Mouse Mitoferrin Loci Using Zebrafish Transgenesis. <i>Molecular and Cellular Biology</i> , 2011, 31, 1344-1356.	1.1	31
47	Hemodynamic-mediated endocardial signaling controls in vivo myocardial reprogramming. <i>ELife</i> , 2019, 8, .	2.8	30
48	Evolving Cardiac Conduction Phenotypes in Developing Zebrafish Larvae: Implications to Drug Sensitivity. <i>Zebrafish</i> , 2010, 7, 325-331.	0.5	24
49	Myocardial plasticity: cardiac development, regeneration and disease. <i>Current Opinion in Genetics and Development</i> , 2016, 40, 120-130.	1.5	23
50	Genome editing of factor X in zebrafish reveals unexpected tolerance of severe defects in the common pathway. <i>Blood</i> , 2017, 130, 666-676.	0.6	22
51	3-OST-7 Regulates BMP-Dependent Cardiac Contraction. <i>PLoS Biology</i> , 2013, 11, e1001727.	2.6	19
52	The atypical Rho GTPase, RhoU, regulates cell-adhesion molecules during cardiac morphogenesis. <i>Developmental Biology</i> , 2014, 389, 182-191.	0.9	19
53	A convergent molecular network underlying autism and congenital heart disease. <i>Cell Systems</i> , 2021, 12, 1094-1107.e6.	2.9	19
54	Notch signaling regulates venous arterialization during zebrafish fin regeneration. <i>Genes To Cells</i> , 2015, 20, 427-438.	0.5	17

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55	Polo-like kinase 2 regulates angiogenic sprouting and blood vessel development. <i>Developmental Biology</i> , 2015, 404, 49-60.	0.9	14
56	Human Heart Rate. <i>Journal of the American College of Cardiology</i> , 2014, 63, 358-368.	1.2	11
57	Re-evaluating functional landscape of the cardiovascular system during development. <i>Biology Open</i> , 2017, 6, 1756-1770.	0.6	6
58	Cardiac function modulates endocardial cell dynamics to shape the cardiac outflow tract. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	6
59	Cardiac Morphogenesis: Crowding and Tension Resolved through Social Distancing. <i>Developmental Cell</i> , 2021, 56, 159-160.	3.1	0
60	Shear Stress-Activated Angiopoietin-2 Modulates Endothelial Cell Repairs and Vasculogenesis via Wnt/ β -catenin Signaling Pathway. <i>FASEB Journal</i> , 2012, 26, 525.4.	0.2	0
61	Canonical Wnt/ β -catenin Signaling Pathway mediates Shear Stress-Activated Angiopoietin-2 expression and vasculogenesis. <i>FASEB Journal</i> , 2013, 27, 526.6.	0.2	0
62	<i>Ankfn1</i> -mutant vestibular defects require loss of both ancestral and derived paralogs for penetrance in zebrafish. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	0