

Sean M Wu

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

10,698
citations

50170

46
h-index

38300

95
g-index

116
all docs

116
docs citations

116
times ranked

16291
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-cell transcriptomics of 20 mouse organs creates a Tabula Muris. <i>Nature</i> , 2018, 562, 367-372.	13.7	2,061
2	Epicardial progenitors contribute to the cardiomyocyte lineage in the developing heart. <i>Nature</i> , 2008, 454, 109-113.	13.7	905
3	A single-cell transcriptomic atlas characterizes ageing tissues in the mouse. <i>Nature</i> , 2020, 583, 590-595.	13.7	683
4	Developmental Origin of a Bipotential Myocardial and Smooth Muscle Cell Precursor in the Mammalian Heart. <i>Cell</i> , 2006, 127, 1137-1150.	13.5	504
5	Harnessing the potential of induced pluripotent stem cells for regenerative medicine. <i>Nature Cell Biology</i> , 2011, 13, 497-505.	4.6	464
6	Ageing hallmarks exhibit organ-specific temporal signatures. <i>Nature</i> , 2020, 583, 596-602.	13.7	317
7	High-throughput screening of tyrosine kinase inhibitor cardiotoxicity with human induced pluripotent stem cells. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	297
8	Inefficient Reprogramming of Fibroblasts into Cardiomyocytes Using Gata4, Mef2c, and Tbx5. <i>Circulation Research</i> , 2012, 111, 50-55.	2.0	227
9	Transcriptomic Profiling Maps Anatomically Patterned Subpopulations among Single Embryonic Cardiac Cells. <i>Developmental Cell</i> , 2016, 39, 491-507.	3.1	218
10	Generation of Functional Ventricular Heart Muscle from Mouse Ventricular Progenitor Cells. <i>Science</i> , 2009, 326, 426-429.	6.0	202
11	Î±2-Macroglobulin from Rheumatoid Arthritis Synovial Fluid: Functional Analysis Defines a Role for Oxidation in Inflammation. <i>Archives of Biochemistry and Biophysics</i> , 2001, 391, 119-126.	1.4	193
12	Single-cell analysis of early progenitor cells that build coronary arteries. <i>Nature</i> , 2018, 559, 356-362.	13.7	190
13	Origins and Fates of Cardiovascular Progenitor Cells. <i>Cell</i> , 2008, 132, 537-543.	13.5	172
14	Molecular Regulation of Cardiomyocyte Differentiation. <i>Circulation Research</i> , 2015, 116, 341-353.	2.0	170
15	Single-Cell RNA Sequencing Unveils Unique Transcriptomic Signatures of Organ-Specific Endothelial Cells. <i>Circulation</i> , 2020, 142, 1848-1862.	1.6	157
16	iPSC-derived cardiomyocytes reveal abnormal TGF-Î² signalling in left ventricular non-compaction cardiomyopathy. <i>Nature Cell Biology</i> , 2016, 18, 1031-1042.	4.6	148
17	Cardiovascular Complications in Patients with COVID-19: Consequences of Viral Toxicities and Host Immune Response. <i>Current Cardiology Reports</i> , 2020, 22, 32.	1.3	146
18	Distilling complexity to advance cardiac tissue engineering. <i>Science Translational Medicine</i> , 2016, 8, 342ps13.	5.8	138

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19	Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes as an In Vitro Model for Coxsackievirus B3-Induced Myocarditis and Antiviral Drug Screening Platform. <i>Circulation Research</i> , 2014, 115, 556-566.	2.0	134
20	Endocardium Minimally Contributes to Coronary Endothelium in the Embryonic Ventricular Free Walls. <i>Circulation Research</i> , 2016, 118, 1880-1893.	2.0	131
21	Transcriptomic Profiling of the Developing Cardiac Conduction System at Single-Cell Resolution. <i>Circulation Research</i> , 2019, 125, 379-397.	2.0	120
22	Cardiac Regeneration. <i>Circulation Research</i> , 2017, 120, 941-959.	2.0	117
23	Early cardiac development: a view from stem cells to embryos. <i>Cardiovascular Research</i> , 2012, 96, 352-362.	1.8	115
24	Wnt Activation and Reduced Cell-Cell Contact Synergistically Induce Massive Expansion of Functional Human iPSC-Derived Cardiomyocytes. <i>Cell Stem Cell</i> , 2020, 27, 50-63.e5.	5.2	112
25	Large-Scale Single-Cell RNA-Seq Reveals Molecular Signatures of Heterogeneous Populations of Human Induced Pluripotent Stem Cell-Derived Endothelial Cells. <i>Circulation Research</i> , 2018, 123, 443-450.	2.0	110
26	Bioacoustic-enabled patterning of human iPSC-derived cardiomyocytes into 3D cardiac tissue. <i>Biomaterials</i> , 2017, 131, 47-57.	5.7	99
27	Inhibition of Apoptosis Overcomes Stage-Related Compatibility Barriers to Chimera Formation in Mouse Embryos. <i>Cell Stem Cell</i> , 2016, 19, 587-592.	5.2	92
28	Intrinsic Endocardial Defects Contribute to Hypoplastic Left Heart Syndrome. <i>Cell Stem Cell</i> , 2020, 27, 574-589.e8.	5.2	89
29	Next-Generation Surrogate Wnts Support Organoid Growth and Deconvolute Frizzled Pleiotropy In Vivo. <i>Cell Stem Cell</i> , 2020, 27, 840-851.e6.	5.2	84
30	Telocytes in human heart valves. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 759-765.	1.6	78
31	Developmental and Regenerative Biology of Multipotent Cardiovascular Progenitor Cells. <i>Circulation Research</i> , 2011, 108, 353-364.	2.0	77
32	Single Cell Analysis of Endothelial Cells Identified Organ-Specific Molecular Signatures and Heart-Specific Cell Populations and Molecular Features. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 165.	1.1	76
33	Integrative Analysis of PRKAG2 Cardiomyopathy iPSC and Microtissue Models Identifies AMPK as a Regulator of Metabolism, Survival, and Fibrosis. <i>Cell Reports</i> , 2016, 17, 3292-3304.	2.9	73
34	Fetal Mammalian Heart Generates a Robust Compensatory Response to Cell Loss. <i>Circulation</i> , 2015, 132, 109-121.	1.6	72
35	Contractile force generation by 3D hiPSC-derived cardiac tissues is enhanced by rapid establishment of cellular interconnection in matrix with muscle-mimicking stiffness. <i>Biomaterials</i> , 2017, 131, 111-120.	5.7	72
36	Meta-Analysis of Stem Cell Therapy in Chronic Ischemic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2013, 112, 217-225.	0.7	71

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37	Single cell expression analysis reveals anatomical and cell cycle-dependent transcriptional shifts during heart development. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	71
38	Derivation of Highly Purified Cardiomyocytes from Human Induced Pluripotent Stem Cells Using Small Molecule-modulated Differentiation and Subsequent Glucose Starvation. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	68
39	Identification of a hybrid myocardial zone in the mammalian heart after birth. <i>Nature Communications</i> , 2017, 8, 87.	5.8	67
40	Big bottlenecks in cardiovascular tissue engineering. <i>Communications Biology</i> , 2018, 1, 199.	2.0	66
41	Essential and Unexpected Role of Yin Yang 1 to Promote Mesodermal Cardiac Differentiation. <i>Circulation Research</i> , 2013, 112, 900-910.	2.0	62
42	Effects of Spaceflight on Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Structure and Function. <i>Stem Cell Reports</i> , 2019, 13, 960-969.	2.3	62
43	Myocarditis Surveillance With High-Sensitivity Troponin I During Cancer Treatment With Immune Checkpoint Inhibitors. <i>JACC: CardioOncology</i> , 2021, 3, 137-139.	1.7	55
44	Epigenetic mechanisms in cardiac development and disease. <i>Acta Biochimica Et Biophysica Sinica</i> , 2012, 44, 92-102.	0.9	54
45	Induced pluripotent stem cell-derived cardiomyocytes for cardiovascular disease modeling and drug screening. <i>Stem Cell Research and Therapy</i> , 2013, 4, 150.	2.4	51
46	Cardiovascular Risks in Patients with COVID-19: Potential Mechanisms and Areas of Uncertainty. <i>Current Cardiology Reports</i> , 2020, 22, 34.	1.3	51
47	Differential regulation of the fibroblast growth factor (FGF) family by Î±2-macroglobulin: evidence for selective modulation of FGF-2â€™-induced angiogenesis. <i>Blood</i> , 2001, 97, 3450-3457.	0.6	44
48	Bioengineering cardiac constructs using 3D printing. <i>Journal of 3D Printing in Medicine</i> , 2017, 1, 123-139.	1.0	44
49	The Conformation-dependent Interaction of Î±2-Macroglobulin with Vascular Endothelial Growth Factor. <i>Journal of Biological Chemistry</i> , 2000, 275, 26806-26811.	1.6	42
50	Modelling inherited cardiac disease using human induced pluripotent stem cell-derived cardiomyocytes: progress, pitfalls, and potential. <i>Cardiovascular Research</i> , 2018, 114, 1828-1842.	1.8	40
51	Immune Checkpoint Inhibitor Cardiotoxicity: Understanding Basic Mechanisms and Clinical Characteristics and Finding a Cure. <i>Annual Review of Pharmacology and Toxicology</i> , 2021, 61, 113-134.	4.2	40
52	Mesp1 at the Heart of Mesoderm Lineage Specification. <i>Cell Stem Cell</i> , 2008, 3, 1-2.	5.2	39
53	Insulin-Like Growth Factor Promotes Cardiac Lineage Induction In Vitro by Selective Expansion of Early Mesoderm. <i>Stem Cells</i> , 2014, 32, 1493-1502.	1.4	38
54	Cardiovascular tissue bioprinting: Physical and chemical processes. <i>Applied Physics Reviews</i> , 2018, 5, 041106.	5.5	36

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55	Bioprinting Approaches to Engineering Vascularized 3D Cardiac Tissues. <i>Current Cardiology Reports</i> , 2019, 21, 90.	1.3	35
56	Patient-Specific Induced Pluripotent Stem Cells Implicate Intrinsic Impaired Contractility in Hypoplastic Left Heart Syndrome. <i>Circulation</i> , 2020, 142, 1605-1608.	1.6	33
57	Stage-specific Effects of Bioactive Lipids on Human iPSC Cardiac Differentiation and Cardiomyocyte Proliferation. <i>Scientific Reports</i> , 2018, 8, 6618.	1.6	32
58	Mammalian Heart Regeneration. <i>Circulation Research</i> , 2017, 120, 630-632.	2.0	29
59	Nkx2.5+ Cardiomyoblasts Contribute to Cardiomyogenesis in the Neonatal Heart. <i>Scientific Reports</i> , 2017, 7, 12590.	1.6	29
60	Sequential Defects in Cardiac Lineage Commitment and Maturation Cause Hypoplastic Left Heart Syndrome. <i>Circulation</i> , 2021, 144, 1409-1428.	1.6	29
61	Myocardial Disease and Long-Distance Space Travel: Solving the Radiation Problem. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 631985.	1.1	28
62	The Binding of Receptor-recognized β_2 -Macroglobulin to the Low Density Lipoprotein Receptor-related Protein and the β_2 M Signaling Receptor Is Decoupled by Oxidation. <i>Journal of Biological Chemistry</i> , 1997, 272, 20627-20635.	1.6	27
63	Reassessment of c-Kit in Cardiac Cells. <i>Circulation Research</i> , 2018, 123, 9-11.	2.0	26
64	Low-Density Lipoprotein Receptor-Related Protein/ β_2 -Macroglobulin Receptor on Murine Peritoneal Macrophages Mediates the Binding and Catabolism of Low-Density Lipoprotein. <i>Archives of Biochemistry and Biophysics</i> , 1996, 326, 39-47.	1.4	25
65	Identification of cardiovascular lineage descendants at single-cell resolution. <i>Development (Cambridge)</i> , 2015, 142, 846-57.	1.2	25
66	Small molecule regulators of postnatal Nkx2.5 cardiomyoblast proliferation and differentiation. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 961-965.	1.6	24
67	Pharmacological inhibition of TGF β 2 receptor improves Nkx2.5 cardiomyoblast-mediated regeneration. <i>Cardiovascular Research</i> , 2015, 105, 44-54.	1.8	24
68	Massive expansion and cryopreservation of functional human induced pluripotent stem cell-derived cardiomyocytes. <i>STAR Protocols</i> , 2021, 2, 100334.	0.5	24
69	Origin of cardiac progenitor cells in the developing and postnatal heart. <i>Journal of Cellular Physiology</i> , 2010, 225, 321-325.	2.0	23
70	The integrative aspects of cardiac physiology and their implications for cell-based therapy. <i>Annals of the New York Academy of Sciences</i> , 2010, 1188, 7-14.	1.8	20
71	At a Crossroad. <i>Circulation Research</i> , 2013, 112, 884-890.	2.0	20
72	Patching Up Broken Hearts: Cardiac Cell Therapy Gets a Bioengineered Boost. <i>Cell Stem Cell</i> , 2014, 15, 671-673.	5.2	19

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73	CRISPR/Cas9-based targeting of fluorescent reporters to human iPSCs to isolate atrial and ventricular-specific cardiomyocytes. <i>Scientific Reports</i> , 2021, 11, 3026.	1.6	18
74	Lift NIH restrictions on chimera research. <i>Science</i> , 2015, 350, 640-640.	6.0	17
75	Overexpression of human BAG3P209L in mice causes restrictive cardiomyopathy. <i>Nature Communications</i> , 2021, 12, 3575.	5.8	17
76	iPS Cell Modeling of Cardiometabolic Diseases. <i>Journal of Cardiovascular Translational Research</i> , 2013, 6, 46-53.	1.1	16
77	Harnessing the Induction of Cardiomyocyte Proliferation for Cardiac Regenerative Medicine. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2015, 17, 404.	0.4	16
78	Cardioprotective Actions of TGF β 1 Inhibition Through Stimulating Autocrine/Paracrine of Survivin and Inhibiting Wnt in Cardiac Progenitors. <i>Stem Cells</i> , 2016, 34, 445-455.	1.4	16
79	Partial Reprogramming of Pluripotent Stem Cell-Derived Cardiomyocytes into Neurons. <i>Scientific Reports</i> , 2017, 7, 44840.	1.6	16
80	Untangling the Biology of Genetic Cardiomyopathies with Pluripotent Stem Cell Disease Models. <i>Current Cardiology Reports</i> , 2017, 19, 30.	1.3	16
81	Strategies for the acquisition of transcriptional and epigenetic information in single cells. <i>Journal of Thoracic Disease</i> , 2017, 9, S9-S16.	0.6	16
82	Isolation and Functional Characterization of Pluripotent Stem Cell-Derived Cardiac Progenitor Cells. <i>Current Protocols in Stem Cell Biology</i> , 2010, 14, Unit 1F.10.	3.0	16
83	Levitating Cells to Sort the Fit and the Fat. <i>Advanced Biology</i> , 2020, 4, 1900300.	3.0	15
84	4HNE Impairs Myocardial Bioenergetics in Congenital Heart Disease-Induced Right Ventricular Failure. <i>Circulation</i> , 2020, 142, 1667-1683.	1.6	14
85	Single cell RNA sequencing approaches to cardiac development and congenital heart disease. <i>Seminars in Cell and Developmental Biology</i> , 2021, 118, 129-135.	2.3	14
86	Reprogramming of Mouse, Rat, Pig, and Human Fibroblasts into iPSCs. <i>Current Protocols in Molecular Biology</i> , 2012, 97, Unit-23.15..	2.9	13
87	YY1 Expression Is Sufficient for the Maintenance of Cardiac Progenitor Cell State. <i>Stem Cells</i> , 2017, 35, 1913-1923.	1.4	13
88	Tissue Engineering of 3D Organotypic Microtissues by Acoustic Assembly. <i>Methods in Molecular Biology</i> , 2017, 1576, 301-312.	0.4	12
89	Reactivation of the Nkx2.5 cardiac enhancer after myocardial infarction does not presage myogenesis. <i>Cardiovascular Research</i> , 2018, 114, 1098-1114.	1.8	12
90	Cardiovascular stem cells in regenerative medicine: ready for prime time?. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2008, 5, 201-207.	0.5	11

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91	Myeloid Zinc Finger 1 (Mzf1) Differentially Modulates Murine Cardiogenesis by Interacting with an Nr2f5 Cardiac Enhancer. PLoS ONE, 2014, 9, e113775.	1.1	11
92	Simple Lithography-Free Single Cell Micropatterning using Laser-Cut Stencils. Journal of Visualized Experiments, 2020, , .	0.2	10
93	Somatic Cell Reprogramming into Cardiovascular Lineages. Journal of Cardiovascular Pharmacology and Therapeutics, 2014, 19, 340-349.	1.0	8
94	In Vivo Rescue of the Hematopoietic Niche By Pluripotent Stem Cell Complementation of Defective Osteoblast Compartments. Stem Cells, 2017, 35, 2150-2159.	1.4	8
95	Fates Aligned: Origins and Mechanisms of Ventricular Conduction System and Ventricular Wall Development. Pediatric Cardiology, 2018, 39, 1090-1098.	0.6	8
96	Genome Editing Redefines Precision Medicine in the Cardiovascular Field. Stem Cells International, 2018, 2018, 1-11.	1.2	8
97	Promises and pitfalls in cell replacement therapy for heart failure. Drug Discovery Today Disease Mechanisms, 2010, 7, e109-e115.	0.8	7
98	Immune checkpoint inhibitor cardiotoxicity: Breaking barriers in the cardiovascular immune landscape. Journal of Molecular and Cellular Cardiology, 2021, 160, 121-127.	0.9	6
99	Purification of Pluripotent Stem Cell-Derived Cardiomyocytes Using CRISPR/Cas9-Mediated Integration of Fluorescent Reporters. Methods in Molecular Biology, 2021, 2158, 223-240.	0.4	6
100	Integrin Based Isolation Enables Purification of Murine Lineage Committed Cardiomyocytes. PLoS ONE, 2015, 10, e0135880.	1.1	6
101	Single-Cell Delineation of Who's Who's on First and Second Heart Fields During Development. Circulation Research, 2019, 125, 411-413.	2.0	4
102	Members Only: Hypoxia-Induced Cell-Cycle Activation in Cardiomyocytes. Cell Metabolism, 2015, 22, 365-366.	7.2	3
103	Molecular Profiling of the Cardiac Conduction System: the Dawn of a New Era. Current Cardiology Reports, 2021, 23, 103.	1.3	3
104	KMT2D-NOTCH Mediates Coronary Abnormalities in Hypoplastic Left Heart Syndrome. Circulation Research, 2022, 131, 280-282.	2.0	3
105	Small RNAs Make Big Impact in Cardiac Repair. Circulation Research, 2015, 116, 393-395.	2.0	2
106	VISIONS: the art of science. Molecular Reproduction and Development, 2009, 76, 525-525.	1.0	0
107	Regenerative Medicine: Potential Mechanisms of Cardiac Recovery in Takotsubo Cardiomyopathy. Current Treatment Options in Cardiovascular Medicine, 2016, 18, 20.	0.4	0
108	Development of Cardiac Muscle. , 2018, , .		0

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109	Prometheus Unbound in Ya(p) Heart. <i>Developmental Cell</i> , 2019, 48, 741-742.	3.1	0