

Kenneth R Chien

List of Publications by Year in descending order

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83
papers

14,157
citations

57681

46
h-index

58552

86
g-index

90
all docs

90
docs citations

90
times ranked

13931
citing authors

#	ARTICLE	IF	CITATIONS
1	Postnatal isl1+ cardioblasts enter fully differentiated cardiomyocyte lineages. <i>Nature</i> , 2005, 433, 647-653.	13.7	1,229
2	Multipotent Embryonic Isl1+ Progenitor Cells Lead to Cardiac, Smooth Muscle, and Endothelial Cell Diversification. <i>Cell</i> , 2006, 127, 1151-1165.	13.5	944
3	Epicardial progenitors contribute to the cardiomyocyte lineage in the developing heart. <i>Nature</i> , 2008, 454, 109-113.	13.7	905
4	MLP-Deficient Mice Exhibit a Disruption of Cardiac Cytoarchitectural Organization, Dilated Cardiomyopathy, and Heart Failure. <i>Cell</i> , 1997, 88, 393-403.	13.5	790
5	Regulation of cardiac gene expression during myocardial growth and hypertrophy: molecular studies of an adaptive physiologic response. <i>FASEB Journal</i> , 1991, 5, 3037-3064.	0.2	743
6	Modeling the mitochondrial cardiomyopathy of Barth syndrome with induced pluripotent stem cell and heart-on-chip technologies. <i>Nature Medicine</i> , 2014, 20, 616-623.	15.2	733
7	The Cardiac Mechanical Stretch Sensor Machinery Involves a Z Disc Complex that Is Defective in a Subset of Human Dilated Cardiomyopathy. <i>Cell</i> , 2002, 111, 943-955.	13.5	712
8	Thymosin β 4 induces adult epicardial progenitor mobilization and neovascularization. <i>Nature</i> , 2007, 445, 177-182.	13.7	605
9	Modified mRNA directs the fate of heart progenitor cells and induces vascular regeneration after myocardial infarction. <i>Nature Biotechnology</i> , 2013, 31, 898-907.	9.4	528
10	Human ISL1 heart progenitors generate diverse multipotent cardiovascular cell lineages. <i>Nature</i> , 2009, 460, 113-117.	13.7	515
11	Chronic Phospholamban Sarcoplasmic Reticulum Calcium ATPase Interaction Is the Critical Calcium Cycling Defect in Dilated Cardiomyopathy. <i>Cell</i> , 1999, 99, 313-322.	13.5	482
12	Absence of pressure overload induced myocardial hypertrophy after conditional inactivation of $G\alpha_q/G\beta_{11}$ in cardiomyocytes. <i>Nature Medicine</i> , 2001, 7, 1236-1240.	15.2	354
13	Chronic suppression of heart-failure progression by a pseudophosphorylated mutant of phospholamban via in vivo cardiac rAAV gene delivery. <i>Nature Medicine</i> , 2002, 8, 864-871.	15.2	344
14	The Renewal and Differentiation of Isl1+ Cardiovascular Progenitors Are Controlled by a Wnt/ β -Catenin Pathway. <i>Cell Stem Cell</i> , 2007, 1, 165-179.	5.2	300
15	Cardiogenesis and the Complex Biology of Regenerative Cardiovascular Medicine. <i>Science</i> , 2008, 322, 1494-1497.	6.0	237
16	Towards regenerative therapy for cardiac disease. <i>Lancet, The</i> , 2012, 379, 933-942.	6.3	214
17	Islet1 cardiovascular progenitors: a single source for heart lineages?. <i>Development (Cambridge)</i> , 2008, 135, 193-205.	1.2	206
18	Disease Modeling and Phenotypic Drug Screening for Diabetic Cardiomyopathy using Human Induced Pluripotent Stem Cells. <i>Cell Reports</i> , 2014, 9, 810-820.	2.9	206

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19	Generation of Functional Ventricular Heart Muscle from Mouse Ventricular Progenitor Cells. <i>Science</i> , 2009, 326, 426-429.	6.0	202
20	Embryonic Heart Progenitors and Cardiogenesis. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2013, 3, a013847-a013847.	2.9	187
21	Herceptin and the Heart – A Molecular Modifier of Cardiac Failure. <i>New England Journal of Medicine</i> , 2006, 354, 789-790.	13.9	185
22	Bioengineering Heart Muscle: A Paradigm for Regenerative Medicine. <i>Annual Review of Biomedical Engineering</i> , 2011, 13, 245-267.	5.7	172
23	Regeneration Next: Toward Heart Stem Cell Therapeutics. <i>Cell Stem Cell</i> , 2009, 5, 364-377.	5.2	166
24	A HCN4+ cardiomyogenic progenitor derived from the first heart field and human pluripotent stem cells. <i>Nature Cell Biology</i> , 2013, 15, 1098-1106.	4.6	166
25	Chronic phospholamban inhibition prevents progressive cardiac dysfunction and pathological remodeling after infarction in rats. <i>Journal of Clinical Investigation</i> , 2004, 113, 727-736.	3.9	141
26	Regenerating the field of cardiovascular cell therapy. <i>Nature Biotechnology</i> , 2019, 37, 232-237.	9.4	140
27	Intradermal delivery of modified mRNA encoding VEGF-A in patients with type 2 diabetes. <i>Nature Communications</i> , 2019, 10, 871.	5.8	138
28	How to make a cardiomyocyte. <i>Development (Cambridge)</i> , 2014, 141, 4418-4431.	1.2	126
29	Biocompatible, Purified VEGF-A mRNA Improves Cardiac Function after Intracardiac Injection 1 Week Post-myocardial Infarction in Swine. <i>Molecular Therapy - Methods and Clinical Development</i> , 2018, 9, 330-346.	1.8	116
30	Programming and reprogramming a human heart cell. <i>EMBO Journal</i> , 2015, 34, 710-738.	3.5	96
31	A Common <i>MLP</i> (Muscle LIM Protein) Variant Is Associated With Cardiomyopathy. <i>Circulation Research</i> , 2010, 106, 695-704.	2.0	90
32	Cardiotrophin-1 and the role of gp130-dependent signaling pathways in cardiac growth and development. <i>Journal of Molecular Medicine</i> , 1997, 75, 492-501.	1.7	89
33	Driving vascular endothelial cell fate of human multipotent <i>Isl1</i> + heart progenitors with VEGF modified mRNA. <i>Cell Research</i> , 2013, 23, 1172-1186.	5.7	89
34	Regenerative medicine and human models of human disease. <i>Nature</i> , 2008, 453, 302-305.	13.7	84
35	Manipulation of a VEGF-Notch signaling circuit drives formation of functional vascular endothelial progenitors from human pluripotent stem cells. <i>Cell Research</i> , 2014, 24, 820-841.	5.7	81
36	Modified VEGF-A mRNA induces sustained multifaceted microvascular response and accelerates diabetic wound healing. <i>Scientific Reports</i> , 2018, 8, 17509.	1.6	80

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37	Highly efficient derivation of ventricular cardiomyocytes from induced pluripotent stem cells with a distinct epigenetic signature. <i>Cell Research</i> , 2012, 22, 142-154.	5.7	77
38	Cardiomyopathy Associated with Microcirculation Dysfunction in Laminin α 4 Chain-deficient Mice*. <i>Journal of Biological Chemistry</i> , 2006, 281, 213-220.	1.6	74
39	Insulin-Like Growth Factor 1 Receptor-Dependent Pathway Drives Epicardial Adipose Tissue Formation After Myocardial Injury. <i>Circulation</i> , 2017, 135, 59-72.	1.6	74
40	Population and Single-Cell Analysis of Human Cardiogenesis Reveals Unique LGR5 Ventricular Progenitors in Embryonic Outflow Tract. <i>Developmental Cell</i> , 2019, 48, 475-490.e7.	3.1	71
41	Pregenerative medicine: developmental paradigms in the biology of cardiovascular regeneration. <i>Journal of Clinical Investigation</i> , 2010, 120, 20-28.	3.9	68
42	Thymosin beta-4 Is Essential for Coronary Vessel Development and Promotes Neovascularization via Adult Epicardium. <i>Annals of the New York Academy of Sciences</i> , 2007, 1112, 171-188.	1.8	64
43	Stem Cell Models of Cardiac Development and Disease. <i>Annual Review of Cell and Developmental Biology</i> , 2010, 26, 667-687.	4.0	63
44	Amnion signals are essential for mesoderm formation in primates. <i>Nature Communications</i> , 2021, 12, 5126.	5.8	59
45	Lost and found: cardiac stem cell therapy revisited. <i>Journal of Clinical Investigation</i> , 2006, 116, 1838-1840.	3.9	53
46	The Muscle Ankyrin Repeat Proteins CARP, Ankrd2, and DARP Are Not Essential for Normal Cardiac Development and Function at Basal Conditions and in Response to Pressure Overload. <i>PLoS ONE</i> , 2014, 9, e93638.	1.1	49
47	Calcium and heart failure: the cycle game. <i>Nature Medicine</i> , 2003, 9, 508-509.	15.2	47
48	Synthetic Chemically Modified mRNA (modRNA): Toward a New Technology Platform for Cardiovascular Biology and Medicine. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a014035-a014035.	2.9	45
49	BMP-2 and VEGF-A modRNAs in collagen scaffold synergistically drive bone repair through osteogenic and angiogenic pathways. <i>Communications Biology</i> , 2021, 4, 82.	2.0	43
50	Human ISL1+ Ventricular Progenitors Self-Assemble into an In Vivo Functional Heart Patch and Preserve Cardiac Function Post Infarction. <i>Molecular Therapy</i> , 2018, 26, 1644-1659.	3.7	38
51	Cardiac progenitors and paracrine mediators in cardiogenesis and heart regeneration. <i>Seminars in Cell and Developmental Biology</i> , 2020, 100, 29-51.	2.3	38
52	To Cre or Not To Cre. <i>Circulation Research</i> , 2001, 88, 546-549.	2.0	35
53	N-cadherin prevents the premature differentiation of anterior heart field progenitors in the pharyngeal mesodermal microenvironment. <i>Cell Research</i> , 2014, 24, 1420-1432.	5.7	35
54	Reversal of Calcium Cycling Defects in Advanced Heart Failure. <i>Journal of the American College of Cardiology</i> , 2006, 48, A15-A23.	1.2	33

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55	Cell-mediated delivery of VEGF modified mRNA enhances blood vessel regeneration and ameliorates murine critical limb ischemia. <i>Journal of Controlled Release</i> , 2019, 310, 103-114.	4.8	33
56	VEGFA mRNA for regenerative treatment of heart failure. <i>Nature Reviews Drug Discovery</i> , 2022, 21, 79-80.	21.5	31
57	Effects of deletion of muscle LIM protein on myocyte function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 280, H2665-H2673.	1.5	30
58	Genotype, phenotype: upstairs, downstairs in the family of cardiomyopathies. <i>Journal of Clinical Investigation</i> , 2003, 111, 175-178.	3.9	29
59	Reply to "Re-evaluating sarcoplasmic reticulum function in heart failure". <i>Nature Medicine</i> , 2000, 6, 942-943.	15.2	27
60	Cardiovascular regenerative therapeutics via synthetic paracrine factor modified mRNA. <i>Stem Cell Research</i> , 2014, 13, 693-704.	0.3	26
61	Tolerance induction to human stem cell transplants with extension to their differentiated progeny. <i>Nature Communications</i> , 2014, 5, 5629.	5.8	26
62	Phospholamban antisense oligonucleotides improve cardiac function in murine cardiomyopathy. <i>Nature Communications</i> , 2021, 12, 5180.	5.8	24
63	Inflammatory pathways and cardiac repair: the affliction of infarction. <i>Nature Medicine</i> , 1999, 5, 1122-1123.	15.2	23
64	Developmental expression of the murine spliceosome-associated protein mSAP49. <i>Developmental Dynamics</i> , 1997, 208, 482-490.	0.8	21
65	Endothelin-1 supports clonal derivation and expansion of cardiovascular progenitors derived from human embryonic stem cells. <i>Nature Communications</i> , 2016, 7, 10774.	5.8	21
66	Migratory and anti-fibrotic programmes define the regenerative potential of human cardiac progenitors. <i>Nature Cell Biology</i> , 2022, 24, 659-671.	4.6	21
67	Trajectory mapping of human embryonic stem cell cardiogenesis reveals lineage branch points and an ISL1 progenitor-derived cardiac fibroblast lineage. <i>Stem Cells</i> , 2020, 38, 1267-1278.	1.4	15
68	Genome-wide CRISPR screen identifies ZIC2 as an essential gene that controls the cell fate of early mesodermal precursors to human heart progenitors. <i>Stem Cells</i> , 2020, 38, 741-755.	1.4	15
69	Heart Regeneration 4.0: Matrix Medicine. <i>Developmental Cell</i> , 2017, 42, 7-8.	3.1	12
70	Epicardium-derived cells organize through tight junctions to replenish cardiac muscle in salamanders. <i>Nature Cell Biology</i> , 2022, 24, 645-658.	4.6	12
71	SMAD4 Is Essential for Human Cardiac Mesodermal Precursor Cell Formation. <i>Stem Cells</i> , 2019, 37, 216-225.	1.4	11
72	Sequencing of a Chinese tetralogy of Fallot cohort reveals clustering mutations in myogenic heart progenitors. <i>JCI Insight</i> , 2022, 7, .	2.3	9

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73	Toward Molecular Strategies for Heart Disease. Japanese Circulation Journal, 1997, 61, 91-118.	1.0	8
74	Blocking phospholamban with VHH intrabodies enhances contractility and relaxation in heart failure. Nature Communications, 2022, 13, .	5.8	7
75	Isolation of human ESC-derived cardiac derivatives and embryonic heart cells for population and single-cell RNA-seq analysis. STAR Protocols, 2021, 2, 100339.	0.5	6
76	The new Silk Road. Nature, 2004, 428, 208-209.	13.7	4
77	Next-Generation Models of Human Cardiogenesis via Genome Editing. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a013920-a013920.	2.9	4
78	PHF7 directs cardiac reprogramming. Nature Cell Biology, 2021, 23, 440-442.	4.6	2
79	Heartbroken embryos heal. Nature, 2013, 498, 439-440.	13.7	1
80	Lncâ€™med in to Cardiogenesis. Cell Stem Cell, 2018, 22, 787-789.	5.2	1
81	An mRNA assay system demonstrates proteasomal-specific degradation contributes to cardiomyopathic phospholamban null mutation. Molecular Medicine, 2021, 27, 102.	1.9	1
82	In search of the next super models. EMBO Molecular Medicine, 2019, 11, e11502.	3.3	1
83	RXR± Null Haematopoietic Cells Fail To Reconstitute Haematopoiesis in Lethally Irradiated Recipient Mice.. Blood, 2004, 104, 2669-2669.	0.6	0