

James E Hudson

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

5,280
citations

201575

27
h-index

161767

54
g-index

70
all docs

70
docs citations

70
times ranked

7057
citing authors

#	ARTICLE	IF	CITATIONS
1	The Transcriptional Program in the Response of Human Fibroblasts to Serum. <i>Science</i> , 1999, 283, 83-87.	6.0	1,895
2	Defined Engineered Human Myocardium With Advanced Maturation for Applications in Heart Failure Modeling and Repair. <i>Circulation</i> , 2017, 135, 1832-1847.	1.6	462
3	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8372-E8381.	3.3	361
4	Multicellular Transcriptional Analysis of Mammalian Heart Regeneration. <i>Circulation</i> , 2017, 136, 1123-1139.	1.6	222
5	Single-Cell Transcriptomic Analysis of Cardiac Differentiation from Human PSCs Reveals HOPX-Dependent Cardiomyocyte Maturation. <i>Cell Stem Cell</i> , 2018, 23, 586-598.e8.	5.2	215
6	Drug Screening in Human PSC-Cardiac Organoids Identifies Pro-proliferative Compounds Acting via the Mevalonate Pathway. <i>Cell Stem Cell</i> , 2019, 24, 895-907.e6.	5.2	199
7	Enhanced Chondrogenic Differentiation of Human Bone Marrow-Derived Mesenchymal Stem Cells in Low Oxygen Environment Micropellet Cultures. <i>Cell Transplantation</i> , 2010, 19, 29-42.	1.2	197
8	Tailored Integrin-Extracellular Matrix Interactions to Direct Human Mesenchymal Stem Cell Differentiation. <i>Stem Cells and Development</i> , 2012, 21, 2442-2456.	1.1	157
9	Neutrophil-Derived S100A8/A9 Amplify Granulopoiesis After Myocardial Infarction. <i>Circulation</i> , 2020, 141, 1080-1094.	1.6	155
10	BET inhibition blocks inflammation-induced cardiac dysfunction and SARS-CoV-2 infection. <i>Cell</i> , 2021, 184, 2167-2182.e22.	13.5	131
11	Development of a human cardiac organoid injury model reveals innate regenerative potential. <i>Development (Cambridge)</i> , 2017, 144, 1118-1127.	1.2	127
12	Evolution, comparative biology and ontogeny of vertebrate heart regeneration. <i>Npj Regenerative Medicine</i> , 2016, 1, 16012.	2.5	109
13	Primitive Cardiac Cells from Human Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2012, 21, 1513-1523.	1.1	79
14	NKX2-5 regulates human cardiomyogenesis via a HEY2 dependent transcriptional network. <i>Nature Communications</i> , 2018, 9, 1373.	5.8	77
15	Developmental GABA polarity switch and neuronal plasticity in Bioengineered Neuronal Organoids. <i>Nature Communications</i> , 2020, 11, 3791.	5.8	77
16	Dynamic changes in the cardiac methylome during postnatal development. <i>FASEB Journal</i> , 2015, 29, 1329-1343.	0.2	56
17	Induction of Human iPSC-Derived Cardiomyocyte Proliferation Revealed by Combinatorial Screening in High Density Microbioreactor Arrays. <i>Scientific Reports</i> , 2016, 6, 24637.	1.6	53
18	Microbioreactor Arrays for Full Factorial Screening of Exogenous and Paracrine Factors in Human Embryonic Stem Cell Differentiation. <i>PLoS ONE</i> , 2012, 7, e52405.	1.1	47

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19	Bioengineering adult human heart tissue: How close are we?. <i>APL Bioengineering</i> , 2019, 3, 010901.	3.3	43
20	Sex-Specific Control of Human Heart Maturation by the Progesterone Receptor. <i>Circulation</i> , 2021, 143, 1614-1628.	1.6	42
21	Therapeutic Inhibition of Acid-Sensing Ion Channel 1a Recovers Heart Function After Ischemia-Induced Reperfusion Injury. <i>Circulation</i> , 2021, 144, 947-960.	1.6	40
22	A Defined Medium and Substrate for Expansion of Human Mesenchymal Stromal Cell Progenitors That Enriches for Osteo- and Chondrogenic Precursors. <i>Stem Cells and Development</i> , 2011, 20, 77-87.	1.1	38
23	Development of a human skeletal micro muscle platform with pacing capabilities. <i>Biomaterials</i> , 2019, 198, 217-227.	5.7	38
24	Reactivation of Myc transcription in the mouse heart unlocks its proliferative capacity. <i>Nature Communications</i> , 2020, 11, 1827.	5.8	38
25	Vegfc/d-dependent regulation of the lymphatic vasculature during cardiac regeneration is influenced by injury context. <i>Npj Regenerative Medicine</i> , 2019, 4, 18.	2.5	37
26	Platelet-derived growth factor-AB improves scar mechanics and vascularity after myocardial infarction. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	37
27	Integrated Glycoproteomics Identifies a Role of N-Glycosylation and Galectin-1 on Myogenesis and Muscle Development. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100030.	2.5	31
28	The Cardiogenic Niche as a Fundamental Building Block of Engineered Myocardium. <i>Cells Tissues Organs</i> , 2012, 195, 82-93.	1.3	24
29	β -catenin drives distinct transcriptional networks in proliferative and non-proliferative cardiomyocytes. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	24
30	Enhanced cardiac repair by telomerase reverse transcriptase over-expression in human cardiac mesenchymal stromal cells. <i>Scientific Reports</i> , 2019, 9, 10579.	1.6	21
31	Effect of Geometric Challenges on Cell Migration. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 999-1010.	1.1	18
32	Resetting the epigenome for heart regeneration.. <i>Seminars in Cell and Developmental Biology</i> , 2016, 58, 2-13.	2.3	18
33	Disease modeling and functional screening using engineered heart tissue. <i>Current Opinion in Physiology</i> , 2018, 1, 80-88.	0.9	17
34	A synthetic elastomer based on acrylated polypropylene glycol triol with tunable modulus for tissue engineering applications. <i>Biomaterials</i> , 2010, 31, 7937-7947.	5.7	16
35	Isolation of Contractile Cardiomyocytes from Human Pluripotent Stem-Cell-Derived Cardiomyogenic Cultures Using a Human <i>NCX1-EGFP</i> Reporter. <i>Stem Cells and Development</i> , 2015, 24, 11-20.	1.1	16
36	Cavin-1 deficiency modifies myocardial and coronary function, stretch responses and ischaemic tolerance: roles of NOS over-activity. <i>Basic Research in Cardiology</i> , 2017, 112, 24.	2.5	15

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37	Metabolic Regulation of Human Pluripotent Stem Cell-Derived Cardiomyocyte Maturation. <i>Current Cardiology Reports</i> , 2020, 22, 73.	1.3	13
38	From scrawny to brawny: the quest for neomusculogenesis; smart surfaces and scaffolds for muscle tissue engineering. <i>Expert Review of Medical Devices</i> , 2007, 4, 709-728.	1.4	12
39	Tuning Wnt-signaling to enhance cardiomyogenesis in human embryonic and induced pluripotent stem cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 277-279.	0.9	12
40	TrawlerWeb: an online de novo motif discovery tool for next-generation sequencing datasets. <i>BMC Genomics</i> , 2018, 19, 238.	1.2	12
41	Loss of the long non-coding RNA OIP5-AS1 exacerbates heart failure in a sex-specific manner. <i>IScience</i> , 2021, 24, 102537.	1.9	12
42	The Non-coding Road Towards Cardiac Regeneration. <i>Journal of Cardiovascular Translational Research</i> , 2013, 6, 909-923.	1.1	10
43	Development of Myocardial Constructs Using Modulus-Matched Acrylated Polypropylene Glycol Triol Substrate and Different Nonmyocyte Cell Populations. <i>Tissue Engineering - Part A</i> , 2011, 17, 2279-2289.	1.6	9
44	Integrating single-cell genomics pipelines to discover mechanisms of stem cell differentiation. <i>Trends in Molecular Medicine</i> , 2021, 27, 1135-1158.	3.5	8
45	Cryoinjury Model for Tissue Injury and Repair in Bioengineered Human Striated Muscle. <i>Methods in Molecular Biology</i> , 2017, 1668, 209-224.	0.4	7
46	Centrosome Reduction Promotes Terminal Differentiation of Human Cardiomyocytes. <i>Stem Cell Reports</i> , 2020, 15, 817-826.	2.3	7
47	An in vitro model of myocardial infarction. <i>Nature Biomedical Engineering</i> , 2020, 4, 366-367.	11.6	7
48	Collagen polarization promotes epithelial elongation by stimulating locoregional cell proliferation. <i>ELife</i> , 2021, 10, .	2.8	7
49	Periostin paves the way for neonatal heart regeneration. <i>Cardiovascular Research</i> , 2017, 113, 556-558.	1.8	6
50	Cep55 regulation of PI3K/Akt signaling is required for neocortical development and ciliogenesis. <i>PLoS Genetics</i> , 2021, 17, e1009334.	1.5	4
51	The role of cardiac transcription factor NKX2-5 in regulating the human cardiac miRNAome. <i>Scientific Reports</i> , 2019, 9, 15928.	1.6	3
52	Chalcone-supported Cardiac Mesoderm Induction in Human Pluripotent Stem Cells for Heart Muscle Engineering. <i>ChemMedChem</i> , 2021, 16, 3300-3305.	1.6	3
53	Directed Self-Organization of Human and Non-Human Primate Heart Muscle Organoids from Pluripotent Stem Cells. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
54	A cell culture platform for quantifying metabolic substrate oxidation in bicarbonate-buffered medium. <i>Journal of Biological Chemistry</i> , 2022, 298, 101547.	1.6	1

#	ARTICLE	IF	CITATIONS
55	FunSel. <i>Circulation</i> , 2017, 136, 1525-1527.	1.6	0
56	There's No I in Team: Cellular Crosstalk Enhances In Vitro Cardiac Maturation. <i>Cell Stem Cell</i> , 2020, 26, 799-801.	5.2	0
57	Cardiac Directed Differentiation Using Small Molecule WNT Modulation at Single-Cell Resolution. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
58	Bromodomain Inhibition Blocks Inflammation-Induced Cardiac Dysfunction and SARS-CoV2 Infection. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0