Charles E Murry

List of Publications by Citations

160 papers	24,936 citations	71 h-index	157 g-index
178 ext. papers	28,450 ext. citations	14.6 avg, IF	7.06 L-index

#	Paper	IF	Citations
160	Haematopoietic stem cells do not transdifferentiate into cardiac myocytes in myocardial infarcts. *Nature*, **2004**, 428, 664-8	50.4	1838
159	Cardiomyocytes derived from human embryonic stem cells in pro-survival factors enhance function of infarcted rat hearts. *Nature Biotechnology*, **2007**, 25, 1015-24	44.5	1794
158	Differentiation of embryonic stem cells to clinically relevant populations: lessons from embryonic development. *Cell*, **2008**, 132, 661-80	56.2	1369
157	Human embryonic-stem-cell-derived cardiomyocytes regenerate non-human primate hearts. *Nature* , **2014**, 510, 273-7	50.4	939
156	Heart regeneration. *Nature*, **2011**, 473, 326-35	50.4	894
155	Truncations of titin causing dilated cardiomyopathy. *New England Journal of Medicine*, **2012**, 366, 619-28	59.2	874
154	Regenerating the heart. *Nature Biotechnology*, **2005**, 23, 845-56	44.5	807
153	Cardiomyocyte grafting for cardiac repair: graft cell death and anti-death strategies. *Journal of Molecular and Cellular Cardiology*, **2001**, 33, 907-21	5.8	749
152	Engineering adolescence: maturation of human pluripotent stem cell-derived cardiomyocytes. *Circulation Research*, **2014**, 114, 511-23	15.7	630
151	Modeling the mitochondrial cardiomyopathy of Barth syndrome with induced pluripotent stem cell and heart-on-chip technologies. *Nature Medicine*, **2014**, 20, 616-23	50.5	604
150	Human ES-cell-derived cardiomyocytes electrically couple and suppress arrhythmias in injured hearts. *Nature*, **2012**, 489, 322-5	50.4	563
149	Growth of engineered human myocardium with mechanical loading and vascular coculture. *Circulation Research*, **2011**, 109, 47-59	15.7	512
148	Transplantation of undifferentiated murine embryonic stem cells in the heart: teratoma formation and immune response. *FASEB Journal*, **2007**, 21, 1345-57	0.9	502
147	Proangiogenic scaffolds as functional templates for cardiac tissue engineering. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 15211-6	11.5	498
146	Biphasic role for Wnt/beta-catenin signaling in cardiac specification in zebrafish and embryonic stem cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 9685-90	11.5	464
145	Survival, integration, and differentiation of cardiomyocyte grafts: a study in normal and injured rat hearts. *Circulation*, **1999**, 100, 193-202	16.7	442
144	Evidence for cardiomyocyte repopulation by extracardiac progenitors in transplanted human hearts. *Circulation Research*, **2002**, 90, 634-40	15.7	374

143	Formation of human myocardium in the rat heart from human embryonic stem cells. *American Journal of Pathology*, **2005**, 167, 663-71	5.8	369
142	Statistically based splicing detection reveals neural enrichment and tissue-specific induction of circular RNA during human fetal development. *Genome Biology*, **2015**, 16, 126	18.3	363
141	Systems approaches to preventing transplanted cell death in cardiac repair. *Journal of Molecular and Cellular Cardiology*, **2008**, 45, 567-81	5.8	320
140	Human embryonic stem cell-derived cardiomyocytes restore function in infarcted hearts of non-human primates. *Nature Biotechnology*, **2018**, 36, 597-605	44.5	314
139	Skeletal muscle stem cells do not transdifferentiate into cardiomyocytes after cardiac grafting. *Journal of Molecular and Cellular Cardiology*, **2002**, 34, 241-9	5.8	311
138	Cell-based cardiac repair: reflections at the 10-year point. *Circulation*, **2005**, 112, 3174-83	16.7	309
137	Cardiomyocyte Regeneration: A Consensus Statement. *Circulation*, **2017**, 136, 680-686	16.7	287
136	Electromechanical coupling between skeletal and cardiac muscle. Implications for infarct repair. *Journal of Cell Biology*, **2000**, 149, 731-40	7.3	286
135	Regeneration gaps: observations on stem cells and cardiac repair. *Journal of the American College of Cardiology*, **2006**, 47, 1777-85	15.1	281
134	Developmental fate and cellular maturity encoded in human regulatory DNA landscapes. *Cell*, **2013**, 154, 888-903	56.2	255
133	Tri-iodo-l-thyronine promotes the maturation of human cardiomyocytes-derived from induced pluripotent stem cells. *Journal of Molecular and Cellular Cardiology*, **2014**, 72, 296-304	5.8	254
132	A temporal chromatin signature in human embryonic stem cells identifies regulators of cardiac development. *Cell*, **2012**, 151, 221-32	56.2	254
131	Mechanical Stress Conditioning and Electrical Stimulation Promote Contractility and Force Maturation of Induced Pluripotent Stem Cell-Derived Human Cardiac Tissue. *Circulation*, **2016**, 134, 1557-1567	16.7	254
130	rAAV6-microdystrophin preserves muscle function and extends lifespan in severely dystrophic mice. *Nature Medicine*, **2006**, 12, 787-9	50.5	248
129	Myofibroblast and endothelial cell proliferation during murine myocardial infarct repair. *American Journal of Pathology*, **2003**, 163, 2433-40	5.8	224
128	Endogenous Wnt/beta-catenin signaling is required for cardiac differentiation in human embryonic stem cells. *PLoS ONE*, **2010**, 5, e11134	3.7	212
127	A hierarchical network controls protein translation during murine embryonic stem cell self-renewal and differentiation. *Cell Stem Cell*, **2008**, 2, 448-60	18	205
126	Delivery of basic fibroblast growth factor with a pH-responsive, injectable hydrogel to improve angiogenesis in infarcted myocardium. *Biomaterials*, **2011**, 32, 2407-16	15.6	192

125	Cardiomyocyte maturation: advances in knowledge and implications for regenerative medicine. *Nature Reviews Cardiology*, **2020**, 17, 341-359	14.8	177
124	Clinical imaging in regenerative medicine. *Nature Biotechnology*, **2014**, 32, 804-18	44.5	175
123	Osteopontin expression in cardiovascular diseases. *Annals of the New York Academy of Sciences*, **1995**, 760, 109-26	6.5	166
122	Let-7 family of microRNA is required for maturation and adult-like metabolism in stem cell-derived cardiomyocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2785-94	11.5	160
121	Proliferation of cardiomyocytes derived from human embryonic stem cells is mediated via the IGF/PI 3-kinase/Akt signaling pathway. *Journal of Molecular and Cellular Cardiology*, **2005**, 39, 865-73	5.8	153
120	In vitro generation of differentiated cardiac myofibers on micropatterned laminin surfaces. *Journal of Biomedical Materials Research Part B*, **2002**, 60, 472-9		150
119	Setting Global Standards for Stem Cell Research and Clinical Translation: The 2016 ISSCR Guidelines. *Stem Cell Reports*, **2016**, 6, 787-797	8	136
118	VEGF induces differentiation of functional endothelium from human embryonic stem cells: implications for tissue engineering. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 80-9	9.4	133
117	Scaffold-free human cardiac tissue patch created from embryonic stem cells. *Tissue Engineering - Part A*, **2009**, 15, 1211-22	3.9	132
116	Fibroblast growth factor-2 regulates myocardial infarct repair: effects on cell proliferation, scar contraction, and ventricular function. *American Journal of Pathology*, **2007**, 171, 1431-40	5.8	132
115	Single-Cell Transcriptomic Analysis of Cardiac Differentiation from Human PSCs Reveals HOPX-Dependent Cardiomyocyte Maturation. *Cell Stem Cell*, **2018**, 23, 586-598.e8	18	131
114	Extracardiac progenitor cells repopulate most major cell types in the transplanted human heart. *Circulation*, **2005**, 112, 2951-8	16.7	130
113	Nanotopography-Induced Structural Anisotropy and Sarcomere Development in Human Cardiomyocytes Derived from Induced Pluripotent Stem Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 21923-32	9.5	118
112	Human Organ-Specific Endothelial Cell Heterogeneity. *IScience*, **2018**, 4, 20-35	6.1	115
111	Measuring the contractile forces of human induced pluripotent stem cell-derived cardiomyocytes with arrays of microposts. *Journal of Biomechanical Engineering*, **2014**, 136, 051005	2.1	112
110	Distilling complexity to advance cardiac tissue engineering. *Science Translational Medicine*, **2016**, 8, 342ps13	17.3	108
109	Functional analysis of a chromosomal deletion associated with myelodysplastic syndromes using isogenic human induced pluripotent stem cells. *Nature Biotechnology*, **2015**, 33, 646-55	44.5	107
108	Evidence for fusion between cardiac and skeletal muscle cells. *Circulation Research*, **2004**, 94, e56-60	15.7	107

107	Generating high-purity cardiac and endothelial derivatives from patterned mesoderm using human pluripotent stem cells. *Nature Protocols*, **2017**, 12, 15-31	18.8	102
106	Shear stress stimulation of p130(cas) tyrosine phosphorylation requires calcium-dependent c-Src activation. *Journal of Biological Chemistry*, **1999**, 274, 26803-9	5.4	96
105	In Vivo Maturation of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Neonatal and Adult Rat Hearts. *Stem Cell Reports*, **2017**, 8, 278-289	8	95
104	Fatty Acids Enhance the Maturation of Cardiomyocytes Derived from Human Pluripotent Stem Cells. *Stem Cell Reports*, **2019**, 13, 657-668	8	93
103	Regenerating the field of cardiovascular cell therapy. *Nature Biotechnology*, **2019**, 37, 232-237	44.5	90
102	Afterload promotes maturation of human induced pluripotent stem cell derived cardiomyocytes in engineered heart tissues. *Journal of Molecular and Cellular Cardiology*, **2018**, 118, 147-158	5.8	87
101	Epicardial cells derived from human embryonic stem cells augment cardiomyocyte-driven heart regeneration. *Nature Biotechnology*, **2019**, 37, 895-906	44.5	87
100	Dystrophin-deficient cardiomyocytes derived from human urine: new biologic reagents for drug discovery. *Stem Cell Research*, **2014**, 12, 467-80	1.6	87
99	SCIENTIFIC COMMUNITY. Confronting stem cell hype. *Science*, **2016**, 352, 776-7	33.3	86
98	Mechanical Stress Promotes Maturation of Human Myocardium From Pluripotent Stem Cell-Derived Progenitors. *Stem Cells*, **2015**, 33, 2148-57	5.8	85
97	Taking the death toll after cardiomyocyte grafting: a reminder of the importance of quantitative biology. *Journal of Molecular and Cellular Cardiology*, **2002**, 34, 251-3	5.8	83
96	The winding road to regenerating the human heart. *Cardiovascular Pathology*, **2015**, 24, 133-40	3.8	80
95	Comparison of Human Embryonic Stem Cell-Derived Cardiomyocytes, Cardiovascular Progenitors, and Bone Marrow Mononuclear Cells for Cardiac Repair. *Stem Cell Reports*, **2015**, 5, 753-762	8	80
94	NFATc3-induced reductions in voltage-gated K+ currents after myocardial infarction. *Circulation Research*, **2004**, 94, 1340-50	15.7	78
93	Quantitative Analyses of the Left Ventricle Volume and Cardiac Function in Normal and Infarcted Yucatan Minipigs. *Journal of Imaging*, **2021**, 7, 107	3.1	78
92	Cardiac development in zebrafish and human embryonic stem cells is inhibited by exposure to tobacco cigarettes and e-cigarettes. *PLoS ONE*, **2015**, 10, e0126259	3.7	75
91	Human embryonic stem cells differentiated to lung lineage-specific cells ameliorate pulmonary fibrosis in a xenograft transplant mouse model. *PLoS ONE*, **2012**, 7, e33165	3.7	73
90	Transmural replacement of myocardium after skeletal myoblast grafting into the heart. Too much of a good thing?. *Cardiovascular Pathology*, **2000**, 9, 337-44	3.8	72

89	Enhanced Electrical Integration of Engineered Human Myocardium via Intramyocardial versus Epicardial Delivery in Infarcted Rat Hearts. *PLoS ONE*, **2015**, 10, e0131446	3.7	71
88	Cardiac regeneration using pluripotent stem cells--progression to large animal models. *Stem Cell Research*, **2014**, 13, 654-65	1.6	70
87	Micro- and nano-patterned conductive graphene-PEG hybrid scaffolds for cardiac tissue engineering. *Chemical Communications*, **2017**, 53, 7412-7415	5.8	68
86	Improving survival and efficacy of pluripotent stem cell-derived cardiac grafts. *Journal of Cellular and Molecular Medicine*, **2013**, 17, 1355-62	5.6	65
85	Patterned human microvascular grafts enable rapid vascularization and increase perfusion in infarcted rat hearts. *Nature Communications*, **2019**, 10, 584	17.4	64
84	Healing of myocardial infarcts in dogs. Effects of late reperfusion. *Circulation*, **1995**, 92, 1891-901	16.7	64
83	Ferritin Overexpression for Noninvasive Magnetic Resonance Imaging–Based Tracking of Stem Cells Transplanted into the Heart. *Molecular Imaging*, **2010**, 9, 7290.2010.00020	3.7	60
82	Genetic Lineage Tracing of Sca-1 Cells Reveals Endothelial but Not Myogenic Contribution to the Murine Heart. *Circulation*, **2018**, 138, 2931-2939	16.7	59
81	Heart regeneration with engineered myocardial tissue. *Annual Review of Biomedical Engineering*, **2014**, 16, 1-28	12	55
80	Defined MicroRNAs Induce Aspects of Maturation in Mouse and Human Embryonic-Stem-Cell-Derived Cardiomyocytes. *Cell Reports*, **2015**, 12, 1960-7	10.6	53
79	Isolation and Mechanical Measurements of Myofibrils from Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. *Stem Cell Reports*, **2016**, 6, 885-896	8	53
78	Dynamics of genome reorganization during human cardiogenesis reveal an RBM20-dependent splicing factory. *Nature Communications*, **2019**, 10, 1538	17.4	52
77	Electrophysiological effects of monophasic and biphasic stimuli in normal and infarcted dogs. *PACE - Pacing and Clinical Electrophysiology*, **1990**, 13, 1158-72	1.6	48
76	Inhibition of β-catenin signaling respecifies anterior-like endothelium into beating human cardiomyocytes. *Development (Cambridge)*, **2015**, 142, 3198-209	6.6	47
75	SLIT3-ROBO4 activation promotes vascular network formation in human engineered tissue and angiogenesis in vivo. *Journal of Molecular and Cellular Cardiology*, **2013**, 64, 124-31	5.8	42
74	The K219T-Lamin mutation induces conduction defects through epigenetic inhibition of SCN5A in human cardiac laminopathy. *Nature Communications*, **2019**, 10, 2267	17.4	40
73	Quantitative proteomics identify DAB2 as a cardiac developmental regulator that inhibits WNT/β-catenin signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1002-7	11.5	39
72	Transmembrane protein 88: a Wnt regulatory protein that specifies cardiomyocyte development. *Development (Cambridge)*, **2013**, 140, 3799-808	6.6	39

71	Absence of regeneration in the MRL/MpJ mouse heart following infarction or cryoinjury. *Cardiovascular Pathology*, **2008**, 17, 6-13	3.8	39
70	Stromal Cells in Dense Collagen Promote Cardiomyocyte and Microvascular Patterning in Engineered Human Heart Tissue. *Tissue Engineering - Part A*, **2016**, 22, 633-44	3.9	37
69	TFPa/HADHA is required for fatty acid beta-oxidation and cardiolipin re-modeling in human cardiomyocytes. *Nature Communications*, **2019**, 10, 4671	17.4	37
68	Muscle cell grafting for the treatment and prevention of heart failure. *Journal of Cardiac Failure*, **2002**, 8, S532-41	3.3	37
67	Upregulation of cardiomyocyte ribonucleotide reductase increases intracellular 2 deoxy-ATP, contractility, and relaxation. *Journal of Molecular and Cellular Cardiology*, **2011**, 51, 894-901	5.8	36
66	Policy: Global standards for stem-cell research. *Nature*, **2016**, 533, 311-3	50.4	33
65	Human Pluripotent Stem Cell-Derived Engineered Tissues: Clinical Considerations. *Cell Stem Cell*, **2018**, 22, 294-297	18	32
64	Novel Adult-Onset Systolic Cardiomyopathy Due to MYH7 E848G Mutation in Patient-Derived Induced Pluripotent Stem Cells. *JACC Basic To Translational Science*, **2018**, 3, 728-740	8.7	32
63	Learn from Your Elders: Developmental Biology Lessons to Guide Maturation of Stem Cell-Derived Cardiomyocytes. *Pediatric Cardiology*, **2019**, 40, 1367-1387	2.1	31
62	Engineered biomaterials control differentiation and proliferation of human-embryonic-stem-cell-derived cardiomyocytes via timed Notch activation. *Stem Cell Reports*, **2014**, 2, 271-81	8	31
61	Cronos Titin Is Expressed in Human Cardiomyocytes and Necessary for Normal Sarcomere Function. *Circulation*, **2019**, 140, 1647-1660	16.7	29
60	Transgenic overexpression of ribonucleotide reductase improves cardiac performance. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6187-92	11.5	29
59	SARS-CoV-2 Infects Human Pluripotent Stem Cell-Derived Cardiomyocytes, Impairing Electrical and Mechanical Function. *Stem Cell Reports*, **2021**, 16, 478-492	8	29
58	Absence of full-length dystrophin impairs normal maturation and contraction of cardiomyocytes derived from human-induced pluripotent stem cells. *Cardiovascular Research*, **2020**, 116, 368-382	9.9	29
57	Function Follows Form - A Review of Cardiac Cell Therapy. *Circulation Journal*, **2019**, 83, 2399-2412	2.9	28
56	Evidence for Minimal Cardiogenic Potential of Stem Cell Antigen 1-Positive Cells in the Adult Mouse Heart. *Circulation*, **2018**, 138, 2960-2962	16.7	27
55	Targeted genomic integration of a selectable floxed dual fluorescence reporter in human embryonic stem cells. *PLoS ONE*, **2012**, 7, e46971	3.7	26
54	Hallmarks of cardiac regeneration. *Nature Reviews Cardiology*, **2018**, 15, 579-580	14.8	26

53	Lack of thrombospondin-2 reduces fibrosis and increases vascularity around cardiac cell grafts. *Cardiovascular Pathology*, **2013**, 22, 91-5	3.8	25
52	Chromatin compartment dynamics in a haploinsufficient model of cardiac laminopathy. *Journal of Cell Biology*, **2019**, 218, 2919-2944	7.3	24
51	Regulation of skeletal myotube formation and alignment by nanotopographically controlled cell-secreted extracellular matrix. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 1543-1551	5.4	22
50	Engineering anisotropic 3D tubular tissues with flexible thermoresponsive nanofabricated substrates. *Biomaterials*, **2020**, 240, 119856	15.6	21
49	Chromatin and Transcriptional Analysis of Mesoderm Progenitor Cells Identifies HOPX as a Regulator of Primitive Hematopoiesis. *Cell Reports*, **2017**, 20, 1597-1608	10.6	21
48	Ribonucleotide reductase-mediated increase in dATP improves cardiac performance via myosin activation in a large animal model of heart failure. *European Journal of Heart Failure*, **2015**, 17, 772-81	12.3	21
47	Engineered human cardiac tissue. *Pediatric Cardiology*, **2011**, 32, 334-41	2.1	21
46	Stem cells and the heart-the road ahead. *Science*, **2020**, 367, 854-855	33.3	20
45	AAV6-mediated Cardiac-specific Overexpression of Ribonucleotide Reductase Enhances Myocardial Contractility. *Molecular Therapy*, **2016**, 24, 240-250	11.7	20
44	Thin filament incorporation of an engineered cardiac troponin C variant (L48Q) enhances contractility in intact cardiomyocytes from healthy and infarcted hearts. *Journal of Molecular and Cellular Cardiology*, **2014**, 72, 219-27	5.8	20
43	Development biology. Turnover after the fallout. *Science*, **2009**, 324, 47-8	33.3	20
42	Magnetic Resonance Imaging Tracking of Graft Survival in the Infarcted Heart: Iron Oxide Particles Versus Ferritin Overexpression Approach. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2014**, 19, 358-367	2.6	19
41	Tunable electroconductive decellularized extracellular matrix hydrogels for engineering human cardiac microphysiological systems. *Biomaterials*, **2021**, 272, 120764	15.6	19
40	Capillary force lithography for cardiac tissue engineering. *Journal of Visualized Experiments*, **2014**,	1.6	18
39	NanoMEA: A Tool for High-Throughput, Electrophysiological Phenotyping of Patterned Excitable Cells. *Nano Letters*, **2020**, 20, 1561-1570	11.5	18
38	The Challenges of First-in-Human Stem Cell Clinical Trials: What Does This Mean for Ethics and Institutional Review Boards?. *Stem Cell Reports*, **2018**, 10, 1429-1431	8	17
37	Reprogramming fibroblasts into cardiomyocytes. *New England Journal of Medicine*, **2011**, 364, 177-8	59.2	17
36	Evaluation of Free Radical Injury in Myocardium. *Toxicologic Pathology*, **1990**, 18, 470-480	2.1	17

35	Chemical dimerization of fibroblast growth factor receptor-1 induces myoblast proliferation, increases intracardiac graft size, and reduces ventricular dilation in infarcted hearts. *Human Gene Therapy*, **2007**, 18, 401-12	4.8	16
34	Substrate Stiffness, Cell Anisotropy, and Cell-Cell Contact Contribute to Enhanced Structural and Calcium Handling Properties of Human Embryonic Stem Cell-Derived Cardiomyocytes. *ACS Biomaterials Science and Engineering*, **2019**, 5, 3876-3888	5.5	15
33	Prosurvival Factors Improve Functional Engraftment of Myogenically Converted Dermal Cells into Dystrophic Skeletal Muscle. *Stem Cells and Development*, **2016**, 25, 1559-1569	4.4	15
32	Cell-based delivery of dATP via gap junctions enhances cardiac contractility. *Journal of Molecular and Cellular Cardiology*, **2014**, 72, 350-9	5.8	15
31	The advancement of human pluripotent stem cell-derived therapies into the clinic. *Development (Cambridge)*, **2015**, 142, 3077-84	6.6	14
30	Get with the (re)program: cardiovascular potential of skin-derived induced pluripotent stem cells. *Circulation*, **2008**, 118, 472-5	16.7	14
29	Platelet-derived growth factor-A mRNA expression in fetal, normal adult, and atherosclerotic human aortas. Analysis by competitive polymerase chain reaction. *Circulation*, **1996**, 93, 1095-106	16.7	12
28	Pharmacologic therapy for engraftment arrhythmia induced by transplantation of human cardiomyocytes. *Stem Cell Reports*, **2021**, 16, 2473-2487	8	12
27	ALPK2 Promotes Cardiogenesis in Zebrafish and Human Pluripotent Stem Cells. *IScience*, **2018**, 2, 88-100	6.1	11
26	A Rainbow Reporter Tracks Single Cells and Reveals Heterogeneous Cellular Dynamics among Pluripotent Stem Cells and Their Differentiated Derivatives. *Stem Cell Reports*, **2020**, 15, 226-241	8	9
25	Letter by Murry et al regarding article, "Embryonic stem cell-derived cardiac myocytes are not ready for human trials". *Circulation Research*, **2014**, 115, e28-9	15.7	8
24	Delta-1 Functionalized Hydrogel Promotes hESC-Cardiomyocyte Graft Proliferation and Maintains Heart Function Post-Injury. *Molecular Therapy - Methods and Clinical Development*, **2020**, 17, 986-998	6.4	8
23	Depth-resolved 3D visualization of coronary microvasculature with optical microangiography. *Physics in Medicine and Biology*, **2016**, 61, 7536-7550	3.8	8
22	Inducible CRISPR genome editing platform in naive human embryonic stem cells reveals JARID2 function in self-renewal. *Cell Cycle*, **2018**, 17, 535-549	4.7	7
21	Polarization sensitive optical coherence tomography with single input for imaging depth-resolved collagen organizations. *Light: Science and Applications*, **2021**, 10, 237	16.7	6
20	Dynamic reorganization of nuclear architecture during human cardiogenesis		6
19	Proliferation at the heart of preadolescence. *Cell*, **2014**, 157, 765-7	56.2	4
18	SARS-CoV-2 infects human pluripotent stem cell-derived cardiomyocytes, impairing electrical and mechanical function		4

17	Engrafted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Undergo Clonal Expansion In Vivo. *Circulation*, **2021**, 143, 1635-1638	16.7	4
16	Sarcomere function activates a p53-dependent DNA damage response that promotes polyploidization and limits in vivo cell engraftment. *Cell Reports*, **2021**, 35, 109088	10.6	4
15	Sonic Hedgehog upregulation does not enhance the survival and engraftment of stem cell-derived cardiomyocytes in infarcted hearts. *PLoS ONE*, **2020**, 15, e0227780	3.7	3
14	Vascular Perfusion of Implanted Human Engineered Cardiac Tissue. *Proceedings of the IEEE Annual Northeast Bioengineering Conference*, **2014**, 2014,		3
13	Response to Comment on Transplantation of undifferentiated murine embryonic stem cells in the heart: teratoma formation and immune response *FASEB Journal*, **2007**, 21, 1291-1291	0.9	3
12	Lost in the fire. *Science*, **2019**, 364, 123-124	33.3	3
11	Translation of Cardiac Myosin Activation with 2-deoxy-ATP to Treat Heart Failure via an Experimental Ribonucleotide Reductase-Based Gene Therapy. *JACC Basic To Translational Science*, **2016**, 1, 666-679	8.7	3
10	Imprecision Medicine: A One-Size-Fits-Many Approach for Muscle Dystrophy. *Cell Stem Cell*, **2016**, 18, 423-4	18	3
9	Response to cardiac regeneration validated. *Nature Biotechnology*, **2015**, 33, 587	44.5	2
8	Chromatin compartment dynamics in a haploinsufficient model of cardiac laminopathy		2
7	Functional Maturation of Human iPSC-based Cardiac Microphysiological Systems with Tunable Electroconductive Decellularized Extracellular Matrices		2
6	Amino acid primed mTOR activity is essential for heart regeneration.. *IScience*, **2022**, 25, 103574	6.1	1
5	Gain-of-function cardiomyopathic mutations in RBM20 rewire splicing regulation and re-distribute ribonucleoprotein granules within processing bodies. *Nature Communications*, **2021**, 12, 6324	17.4	1
4	Pharmacologic Therapy for Engraftment Arrhythmia Induced by Transplantation of Human Cardiomyocytes		1
3	Pitfalls Associated with cDNA Microarrays A Cautionary Tale113-125		
2	Cell Therapy Strategies With No Safety Concerns and Demonstrated Benefits Warrant Study - Reply. *Circulation Journal*, **2020**, 84, 2122	2.9	
1	High-resolution 3D fluorescent imaging of intact tissues. **2021**, 1, 1-14		