Charles E Murry

List of Publications by Year
in descending order

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164 papers	30,830 citations	8181 76 h-index	5829 161 g-index
178 all docs	178 docs citations	178 times ranked	26800 citing authors

#	Article	IF	Citations
1	Haematopoietic stem cells do not transdifferentiate into cardiac myocytes in myocardial infarcts. Nature, 2004, 428, 664-668.	27.8	2,050
2	Cardiomyocytes derived from human embryonic stem cells in pro-survival factors enhance function of infarcted rat hearts. Nature Biotechnology, 2007, 25, 1015-1024.	17.5	2,050
3	Differentiation of Embryonic Stem Cells toÂClinically Relevant Populations: Lessons from Embryonic Development. Cell, 2008, 132, 661-680.	28.9	1,567
4	Human embryonic-stem-cell-derived cardiomyocytes regenerate non-human primate hearts. Nature, 2014, 510, 273-277.	27.8	1,194
5	Truncations of Titin Causing Dilated Cardiomyopathy. New England Journal of Medicine, 2012, 366, 619-628.	27.0	1,147
6	Heart regeneration. Nature, 2011, 473, 326-335.	27.8	1,112
7	Regenerating the heart. Nature Biotechnology, 2005, 23, 845-856.	17.5	906
8	Cardiomyocyte Grafting for Cardiac Repair: Graft Cell Death and Anti-Death Strategies. Journal of Molecular and Cellular Cardiology, 2001, 33, 907-921.	1.9	823
9	Engineering Adolescence. Circulation Research, 2014, 114, 511-523.	4.5	822
10	Modeling the mitochondrial cardiomyopathy of Barth syndrome with induced pluripotent stem cell and heart-on-chip technologies. Nature Medicine, 2014, 20, 616-623.	30.7	733
11	Human ES-cell-derived cardiomyocytes electrically couple and suppress arrhythmias in injured hearts. Nature, 2012, 489, 322-325.	27.8	668
12	Growth of Engineered Human Myocardium With Mechanical Loading and Vascular Coculture. Circulation Research, 2011, 109, 47-59.	4.5	590
13	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, 9685-9690.	7.1	579
14	Proangiogenic scaffolds as functional templates for cardiac tissue engineering. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15211-15216.	7.1	575
15	Transplantation of undifferentiated murine embryonic stem cells in the heart: teratoma formation and immune response. FASEB Journal, 2007, 21, 1345-1357.	0.5	564
16	Statistically based splicing detection reveals neural enrichment and tissue-specific induction of circular RNA during human fetal development. Genome Biology, 2015, 16, 126.	8.8	507
17	Survival, Integration, and Differentiation of Cardiomyocyte Grafts. Circulation, 1999, 100, 193-202.	1.6	500
18	Human embryonic stem cellâ€"derived cardiomyocytes restore function in infarcted hearts of non-human primates. Nature Biotechnology, 2018, 36, 597-605.	17.5	466

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19	Evidence for Cardiomyocyte Repopulation by Extracardiac Progenitors in Transplanted Human Hearts. Circulation Research, 2002, 90, 634-640.	4.5	423
20	Formation of Human Myocardium in the Rat Heart from Human Embryonic Stem Cells. American Journal of Pathology, 2005, 167, 663-671.	3.8	418
21	Cardiomyocyte Regeneration. Circulation, 2017, 136, 680-686.	1.6	417
22	Cardiomyocyte maturation: advances in knowledge and implications for regenerative medicine. Nature Reviews Cardiology, 2020, 17, 341-359.	13.7	417
23	Systems approaches to preventing transplanted cell death in cardiac repair. Journal of Molecular and Cellular Cardiology, 2008, 45, 567-581.	1.9	364
24	Skeletal Muscle Stem Cells Do Not Transdifferentiate Into Cardiomyocytes After Cardiac Grafting. Journal of Molecular and Cellular Cardiology, 2002, 34, 241-249.	1.9	362
25	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.	1.9	357
26	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.	1.6	356
27	Cell-Based Cardiac Repair. Circulation, 2005, 112, 3174-3183.	1.6	349
28	Regeneration Gaps. Journal of the American College of Cardiology, 2006, 47, 1777-1785.	2.8	336
29	Electromechanical Coupling between Skeletal and Cardiac Muscle. Journal of Cell Biology, 2000, 149, 731-740.	5.2	330
30	Developmental Fate and Cellular Maturity Encoded in Human Regulatory DNA Landscapes. Cell, 2013, 154, 888-903.	28.9	329
31	A Temporal Chromatin Signature in Human Embryonic Stem Cells Identifies Regulators of Cardiac Development. Cell, 2012, 151, 221-232.	28.9	306
32	rAAV6-microdystrophin preserves muscle function and extends lifespan in severely dystrophic mice. Nature Medicine, 2006, 12, 787-789.	30.7	274
33	A Hierarchical Network Controls Protein Translation during Murine Embryonic Stem Cell Self-Renewal and Differentiation. Cell Stem Cell, 2008, 2, 448-460.	11.1	253
34	Myofibroblast and Endothelial Cell Proliferation during Murine Myocardial Infarct Repair. American Journal of Pathology, 2003, 163, 2433-2440.	3.8	251
35	Endogenous Wnt/Î²-Catenin Signaling Is Required for Cardiac Differentiation in Human Embryonic Stem Cells. PLoS ONE, 2010, 5, e11134.	2.5	247
36	Delivery of basic fibroblast growth factor with a pH-responsive, injectable hydrogel to improve angiogenesis in infarcted myocardium. Biomaterials, 2011, 32, 2407-2416.	11.4	235

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37	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.	7.1	223
38	Single-Cell Transcriptomic Analysis of Cardiac Differentiation from Human PSCs Reveals HOPX-Dependent Cardiomyocyte Maturation. Cell Stem Cell, 2018, 23, 586-598.e8.	11.1	215
39	Clinical imaging in regenerative medicine. Nature Biotechnology, 2014, 32, 804-818.	17.5	207
40	Fatty Acids Enhance the Maturation of Cardiomyocytes Derived from Human Pluripotent Stem Cells. Stem Cell Reports, 2019, 13, 657-668.	4.8	187
41	Human Organ-Specific Endothelial Cell Heterogeneity. IScience, 2018, 4, 20-35.	4.1	181
42	In vitro generation of differentiated cardiac myofibers on micropatterned laminin surfaces. Journal of Biomedical Materials Research Part B, 2002, 60, 472-479.	3.1	174
43	Osteopontin Expression in Cardiovascular Diseases^a. Annals of the New York Academy of Sciences, 1995, 760, 109-126.	3.8	173
44	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, 865-873.	1.9	173
45	Setting Global Standards for Stem Cell Research and Clinical Translation: TheÂ2016 ISSCR Guidelines. Stem Cell Reports, 2016, 6, 787-797.	4.8	172
46	Generating high-purity cardiac and endothelial derivatives from patterned mesoderm using human pluripotent stem cells. Nature Protocols, 2017, 12, 15-31.	12.0	158
47	Fibroblast Growth Factor-2 Regulates Myocardial Infarct Repair. American Journal of Pathology, 2007, 171, 1431-1440.	3.8	155
48	Nanotopography-Induced Structural Anisotropy and Sarcomere Development in Human Cardiomyocytes Derived from Induced Pluripotent Stem Cells. ACS Applied Materials & Interfaces, 2016, 8, 21923-21932.	8.0	155
49	Scaffold-Free Human Cardiac Tissue Patch Created from Embryonic Stem Cells. Tissue Engineering - Part A, 2009, 15, 1211-1222.	3.1	149
50	VEGF Induces Differentiation of Functional Endothelium From Human Embryonic Stem Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 80-89.	2.4	146
51	Extracardiac Progenitor Cells Repopulate Most Major Cell Types in the Transplanted Human Heart. Circulation, 2005, 112, 2951-2958.	1.6	143
52	Regenerating the field of cardiovascular cell therapy. Nature Biotechnology, 2019, 37, 232-237.	17.5	140
53	Epicardial cells derived from human embryonic stem cells augment cardiomyocyte-driven heart regeneration. Nature Biotechnology, 2019, 37, 895-906.	17.5	139
54	Distilling complexity to advance cardiac tissue engineering. Science Translational Medicine, 2016, 8, 342ps13.	12.4	138

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55	InÂVivo Maturation of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Neonatal and Adult Rat Hearts. Stem Cell Reports, 2017, 8, 278-289.	4.8	138
56	Measuring the Contractile Forces of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes With Arrays of Microposts. Journal of Biomechanical Engineering, 2014, 136, 051005.	1.3	136
57	Functional analysis of a chromosomal deletion associated with myelodysplastic syndromes using isogenic human induced pluripotent stem cells. Nature Biotechnology, 2015, 33, 646-655.	17.5	130
58	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.	1.9	127
59	Evidence for Fusion Between Cardiac and Skeletal Muscle Cells. Circulation Research, 2004, 94, e56-60.	4.5	125
60	Dystrophin-deficient cardiomyocytes derived from human urine: New biologic reagents for drug discovery. Stem Cell Research, 2014, 12, 467-480.	0.7	116
61	Confronting stem cell hype. Science, 2016, 352, 776-777.	12.6	109
62	Shear Stress Stimulation of p130 Tyrosine Phosphorylation Requires Calcium-dependent c-Src Activation. Journal of Biological Chemistry, 1999, 274, 26803-26809.	3.4	106
63	Mechanical Stress Promotes Maturation of Human Myocardium From Pluripotent Stem Cell-Derived Progenitors. Stem Cells, 2015, 33, 2148-2157.	3.2	105
64	Dynamics of genome reorganization during human cardiogenesis reveal an RBM20-dependent splicing factory. Nature Communications, 2019, 10, 1538.	12.8	104
65	Patterned human microvascular grafts enable rapid vascularization and increase perfusion in infarcted rat hearts. Nature Communications, 2019, 10, 584.	12.8	100
66	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.	4.8	98
67	Taking the Death Toll After Cardiomyocyte Grafting: A Reminder of the Importance of Quantitative Biology. Journal of Molecular and Cellular Cardiology, 2002, 34, 251-253.	1.9	97
68	Enhanced Electrical Integration of Engineered Human Myocardium via Intramyocardial versus Epicardial Delivery in Infarcted Rat Hearts. PLoS ONE, 2015, 10, e0131446.	2.5	97
69	The winding road to regenerating the human heart. Cardiovascular Pathology, 2015, 24, 133-140.	1.6	95
70	Cardiac Development in Zebrafish and Human Embryonic Stem Cells Is Inhibited by Exposure to Tobacco Cigarettes and E-Cigarettes. PLoS ONE, 2015, 10, e0126259.	2.5	92
71	NFATc3-Induced Reductions in Voltage-Gated K + Currents After Myocardial Infarction. Circulation Research, 2004, 94, 1340-1350.	4.5	90
72	Micro- and nano-patterned conductive grapheneâ€"PEG hybrid scaffolds for cardiac tissue engineering. Chemical Communications, 2017, 53, 7412-7415.	4.1	90

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73	Cardiac regeneration using pluripotent stem cellsâ€”Progression to large animal models. Stem Cell Research, 2014, 13, 654-665.	0.7	87
74	Human Embryonic Stem Cells Differentiated to Lung Lineage-Specific Cells Ameliorate Pulmonary Fibrosis in a Xenograft Transplant Mouse Model. PLoS ONE, 2012, 7, e33165.	2.5	86
75	Genetic Lineage Tracing of Sca-1 ⁺ Cells Reveals Endothelial but Not Myogenic Contribution to the Murine Heart. Circulation, 2018, 138, 2931-2939.	1.6	83
76	Transmural Replacement of Myocardium after Skeletal Myoblast Grafting into the Heart. Cardiovascular Pathology, 2000, 9, 337-344.	1.6	79
77	The K219T-Lamin mutation induces conduction defects through epigenetic inhibition of SCN5A in human cardiac laminopathy. Nature Communications, 2019, 10, 2267.	12.8	79
78	Healing of Myocardial Infarcts in Dogs. Circulation, 1995, 92, 1891-1901.	1.6	78
79	Defined MicroRNAs Induce Aspects of Maturation in Mouse and Human Embryonic-Stem-Cell-Derived Cardiomyocytes. Cell Reports, 2015, 12, 1960-1967.	6.4	77
80	TFPa/HADHA is required for fatty acid beta-oxidation and cardiolipin re-modeling in human cardiomyocytes. Nature Communications, 2019, 10, 4671.	12.8	77
81	Isolation and Mechanical Measurements of Myofibrils from Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Stem Cell Reports, 2016, 6, 885-896.	4.8	75
82	SARS-CoV-2 Infects Human Pluripotent Stem Cell-Derived Cardiomyocytes, Impairing Electrical and Mechanical Function. Stem Cell Reports, 2021, 16, 478-492.	4.8	75
83	Heart Regeneration with Engineered Myocardial Tissue. Annual Review of Biomedical Engineering, 2014, 16, 1-28.	12.3	69
84	Ferritin Overexpression for Noninvasive Magnetic Resonance Imagingâ€“Based Tracking of Stem Cells Transplanted into the Heart. Molecular Imaging, 2010, 9, 7290.2010.00020.	1.4	68
85	Improving survival and efficacy of pluripotent stem cellâ€“derived cardiac grafts. Journal of Cellular and Molecular Medicine, 2013, 17, 1355-1362.	3.6	68
86	Inhibition of Î²-catenin signaling respecifies anterior-like endothelium into beating human cardiomyocytes. Development (Cambridge), 2015, 142, 3198-209.	2.5	64
87	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.	4.1	63
88	SLIT3â€“ROBO4 activation promotes vascular network formation in human engineered tissue and angiogenesis in vivo. Journal of Molecular and Cellular Cardiology, 2013, 64, 124-131.	1.9	62
89	Tunable electroconductive decellularized extracellular matrix hydrogels for engineering human cardiac microphysiological systems. Biomaterials, 2021, 272, 120764.	11.4	60
90	Transmembrane protein 88: a Wnt regulatory protein that specifies cardiomyocyte development. Development (Cambridge), 2013, 140, 3799-3808.	2.5	56

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91	Quantitative proteomics identify DAB2 as a cardiac developmental regulator that inhibits WNT/Î²-catenin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1002-1007.	7.1	53
92	Electrophysiological Effects of Monophasic and Biphasic Stimuli in Normal and Infarcted Dogs. PACE - Pacing and Clinical Electrophysiology, 1990, 13, 1158-1172.	1.2	51
93	Chromatin and Transcriptional Analysis of Mesoderm Progenitor Cells Identifies HOPX as a Regulator of Primitive Hematopoiesis. Cell Reports, 2017, 20, 1597-1608.	6.4	50
94	Cronos Titin Is Expressed in Human Cardiomyocytes and Necessary for Normal Sarcomere Function. Circulation, 2019, 140, 1647-1660.	1.6	50
95	Learn from Your Elders: Developmental Biology Lessons to Guide Maturation of Stem Cell-Derived Cardiomyocytes. Pediatric Cardiology, 2019, 40, 1367-1387.	1.3	47
96	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.	3.8	47
97	Chromatin compartment dynamics in a haploinsufficient model of cardiac laminopathy. Journal of Cell Biology, 2019, 218, 2919-2944.	5.2	46
98	Upregulation of cardiomyocyte ribonucleotide reductase increases intracellular 2 deoxy-ATP, contractility, and relaxation. Journal of Molecular and Cellular Cardiology, 2011, 51, 894-901.	1.9	44
99	Human Pluripotent Stem Cell-Derived Engineered Tissues: Clinical Considerations. Cell Stem Cell, 2018, 22, 294-297.	11.1	44
100	Absence of regeneration in the MRL/MpJ mouse heart following infarction or cryoinjury. Cardiovascular Pathology, 2008, 17, 6-13.	1.6	43
101	Pharmacologic therapy for engraftment arrhythmia induced by transplantation of human cardiomyocytes. Stem Cell Reports, 2021, 16, 2473-2487.	4.8	42
102	Policy: Global standards for stem-cell research. Nature, 2016, 533, 311-313.	27.8	41
103	Muscle cell grafting for the treatment and prevention of heart failure. Journal of Cardiac Failure, 2002, 8, S532-S541.	1.7	40
104	Transgenic overexpression of ribonucleotide reductase improves cardiac performance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6187-6192.	7.1	40
105	Function Follows Formã€€â€• A Review of Cardiac Cell Therapy â€•. Circulation Journal, 2019, 83, 2399-2412.	1.6	40
106	Stromal Cells in Dense Collagen Promote Cardiomyocyte and Microvascular Patterning in Engineered Human Heart Tissue. Tissue Engineering - Part A, 2016, 22, 633-644.	3.1	39
107	Hallmarks of cardiac regeneration. Nature Reviews Cardiology, 2018, 15, 579-580.	13.7	39
108	Engineered Biomaterials Control Differentiation and Proliferation of Human-Embryonic-Stem-Cell-Derived Cardiomyocytes via Timed Notch Activation. Stem Cell Reports, 2014, 2, 271-281.	4.8	38

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109	Stem cells and the heartâ€"the road ahead. Science, 2020, 367, 854-855.	12.6	38
110	Evidence for Minimal Cardiogenic Potential of Stem Cell Antigen 1â€"Positive Cells in the Adult Mouse Heart. Circulation, 2018, 138, 2960-2962.	1.6	35
111	Lack of thrombospondin-2 reduces fibrosis and increases vascularity around cardiac cell grafts. Cardiovascular Pathology, 2013, 22, 91-95.	1.6	34
112	Ribonucleotide reductaseâ€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, 772-781.	7.1	32
113	AAV6-mediated Cardiac-specific Overexpression of Ribonucleotide Reductase Enhances Myocardial Contractility. Molecular Therapy, 2016, 24, 240-250.	8.2	32
114	NanoMEA: A Tool for High-Throughput, Electrophysiological Phenotyping of Patterned Excitable Cells. Nano Letters, 2020, 20, 1561-1570.	9.1	32
115	Targeted Genomic Integration of a Selectable Floxed Dual Fluorescence Reporter in Human Embryonic Stem Cells. PLoS ONE, 2012, 7, e46971.	2.5	29
116	Engineering anisotropic 3D tubular tissues with flexible thermoresponsive nanofabricated substrates. Biomaterials, 2020, 240, 119856.	11.4	28
117	Regulation of skeletal myotube formation and alignment by nanotopographically controlled cellâ€secreted extracellular matrix. Journal of Biomedical Materials Research - Part A, 2018, 106, 1543-1551.	4.0	26
118	Substrate Stiffness, Cell Anisotropy, and Cellâ€"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.	5.2	26
119	Magnetic Resonance Imaging Tracking of Graft Survival in the Infarcted Heart. Journal of Cardiovascular Pharmacology and Therapeutics, 2014, 19, 358-367.	2.0	25
120	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, 219-227.	1.9	24
121	Polarization sensitive optical coherence tomography with single input for imaging depth-resolved collagen organizations. Light: Science and Applications, 2021, 10, 237.	16.6	24
122	Evaluation of Free Radical Injury in Myocardium. Toxicologic Pathology, 1990, 18, 470-480.	1.8	23
123	Engineered Human Cardiac Tissue. Pediatric Cardiology, 2011, 32, 334-341.	1.3	23
124	ALPK2 Promotes Cardiogenesis in Zebrafish and Human Pluripotent Stem Cells. IScience, 2018, 2, 88-100.	4.1	23
125	Gain-of-function cardiomyopathic mutations in RBM20 rewire splicing regulation and re-distribute ribonucleoprotein granules within processing bodies. Nature Communications, 2021, 12, 6324.	12.8	23
126	Turnover After the Fallout. Science, 2009, 324, 47-48.	12.6	22

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127	Capillary Force Lithography for Cardiac Tissue Engineering. Journal of Visualized Experiments, 2014, , .	0.3	22
128	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.	4.8	22
129	Cell-based delivery of dATP via gap junctions enhances cardiac contractility. Journal of Molecular and Cellular Cardiology, 2014, 72, 350-359.	1.9	21
130	Prosurvival Factors Improve Functional Engraftment of Myogenically Converted Dermal Cells into Dystrophic Skeletal Muscle. Stem Cells and Development, 2016, 25, 1559-1569.	2.1	20
131	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, 401-412.	2.7	18
132	Reprogramming Fibroblasts into Cardiomyocytes. New England Journal of Medicine, 2011, 364, 177-178.	27.0	18
133	The advancement of human pluripotent stem cell-derived therapies into the clinic. Development (Cambridge), 2015, 142, 3077-3084.	2.5	18
134	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.	4.8	16
135	Get With the (Re)Program. Circulation, 2008, 118, 472-475.	1.6	15
136	Platelet-Derived Growth Factorâ€“A mRNA Expression in Fetal, Normal Adult, and Atherosclerotic Human Aortas. Circulation, 1996, 93, 1095-1106.	1.6	15
137	Amino acid primed mTOR activity is essential for heart regeneration. IScience, 2022, 25, 103574.	4.1	15
138	Cardiopoietry in Motion. Journal of the American College of Cardiology, 2013, 61, 2339-2340.	2.8	14
139	Inducible CRISPR genome editing platform in naive human embryonic stem cells reveals JARID2 function in self-renewal. Cell Cycle, 2018, 17, 00-00.	2.6	13
140	Depth-resolved 3D visualization of coronary microvasculature with optical microangiography. Physics in Medicine and Biology, 2016, 61, 7536-7550.	3.0	11
141	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.	4.1	11
142	Sarcomere function activates a p53-dependent DNA damage response that promotes polyploidization and limits inÂvivo cell engraftment. Cell Reports, 2021, 35, 109088.	6.4	11
143	Letter by Murry et al Regarding Article, â€œEmbryonic Stem Cellâ€“Derived Cardiac Myocytes Are Not Ready for Human Trialsâ€. Circulation Research, 2014, 115, e28-9.	4.5	9
144	Engrafted Human Induced Pluripotent Stem Cellâ€“Derived Cardiomyocytes Undergo Clonal Expansion In Vivo. Circulation, 2021, 143, 1635-1638.	1.6	9

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145	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.	4.1	7
146	Rescuing human fetal tissue research in the United States: A call for additional regulatory reform. Stem Cell Reports, 2021, 16, 2839-2843.	4.8	6
147	One Stride Forward. Circulation, 2017, 135, 1848-1850.	1.6	5
148	Proliferation at the Heart of Preadolescence. Cell, 2014, 157, 765-767.	28.9	4
149	Imprecision Medicine: A One-Size-Fits-Many Approach for Muscle Dystrophy. Cell Stem Cell, 2016, 18, 423-424.	11.1	4
150	Sonic Hedgehog upregulation does not enhance the survival and engraftment of stem cell-derived cardiomyocytes in infarcted hearts. PLoS ONE, 2020, 15, e0227780.	2.5	4
151	Response to â€œComment on â€˜Transplantation of undifferentiated murine embryonic stem cells in the heart: teratoma formation and immune responseâ€™â€• FASEB Journal, 2007, 21, 1291-1291.	0.5	3
152	Vascular perfusion of implanted human engineered cardiac tissue. , 2014, 2014, .		3
153	Lost in the fire. Science, 2019, 364, 123-124.	12.6	3
154	Response to Cardiac regeneration validated. Nature Biotechnology, 2015, 33, 587-587.	17.5	2
155	Human myocardial grafts: do they meet all the criteria for true heart regeneration?. Future Cardiology, 2013, 9, 151-154.	1.2	1
156	Quantitative Analyses of the Left Ventricle Volume and Cardiac Function in Normal and Infarcted Yucatan Minipigs. Journal of Imaging, 2021, 7, 107.	3.0	1
157	Sustained miRNA release regenerates the heart. Nature Biomedical Engineering, 2017, 1, 931-933.	22.5	1
158	Human Stem Cell Derived Cardiomyocyte Maturation is Regulated by Glucose Levels and Metabolic Hormone Supplementation. FASEB Journal, 2019, 33, .	0.5	1
159	Pitfalls Associated with cDNA Microarraysâ€" A Cautionary Tale. , 0, , 113-125.		0
160	Response to Letter Regarding Article â€œExtracardiac Progenitor Cells Repopulate Most Major Cell Types in the Transplanted Human Heartâ€• Circulation, 2006, 113, .	1.6	0
161	A Proteomic Perspective on Cardiomyocyte Maturation. Circulation Research, 2019, 125, 954-956.	4.5	0
162	High-resolution 3D fluorescent imaging of intact tissues. , 2021, 1, 1-14.		0

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163	Cell Therapy Strategies With No Safety Concerns and Demonstrated Benefits Warrant Studyã€€â€• Reply â€•. Circulation Journal, 2020, 84, 2122.	1.6	0
164	Flexing Their Muscles: Maturation of Stem Cellâ€“Derived Cardiomyocytes on Elastomeric Substrates to Enhance Cardiac Repair. Circulation, 2022, 145, 1427-1430.	1.6	0