

# Eduardo Marbn

## List of Publications by Citations

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188  
papers

17,728  
citations

66  
h-index

132  
g-index

199  
ext. papers

20,158  
ext. citations

10.7  
avg, IF

7  
L-index

#	Paper	IF	Citations
188	Intracoronary cardiosphere-derived cells for heart regeneration after myocardial infarction (CADUCEUS): a prospective, randomised phase 1 trial. <i>Lancet, The</i> , <b>2012</b> , 379, 895-904	40	1108
187	Regenerative potential of cardiosphere-derived cells expanded from percutaneous endomyocardial biopsy specimens. <i>Circulation</i> , <b>2007</b> , 115, 896-908	16.7	967
186	Mitochondrial ATP-dependent potassium channels: novel effectors of cardioprotection?. <i>Circulation</i> , <b>1998</b> , 97, 2463-9	16.7	708
185	Infarct tissue heterogeneity by magnetic resonance imaging identifies enhanced cardiac arrhythmia susceptibility in patients with left ventricular dysfunction. <i>Circulation</i> , <b>2007</b> , 115, 2006-14	16.7	625
184	c-kit+ cells minimally contribute cardiomyocytes to the heart. <i>Nature</i> , <b>2014</b> , 509, 337-41	50.4	603
183	Exosomes as critical agents of cardiac regeneration triggered by cell therapy. <i>Stem Cell Reports</i> , <b>2014</b> , 2, 606-19	8	548
182	Relative roles of direct regeneration versus paracrine effects of human cardiosphere-derived cells transplanted into infarcted mice. <i>Circulation Research</i> , <b>2010</b> , 106, 971-80	15.7	509
181	Functional integration of electrically active cardiac derivatives from genetically engineered human embryonic stem cells with quiescent recipient ventricular cardiomyocytes: insights into the development of cell-based pacemakers. <i>Circulation</i> , <b>2005</b> , 111, 11-20	16.7	416
180	COVID-19 and the Heart. <i>Circulation Research</i> , <b>2020</b> , 126, 1443-1455	15.7	395
179	Intracoronary cardiosphere-derived cells after myocardial infarction: evidence of therapeutic regeneration in the final 1-year results of the CADUCEUS trial (Cardiosphere-Derived autologous stem Cells to reverse ventricular dysfunction). <i>Journal of the American College of Cardiology</i> , <b>2014</b> , 63, 110-22	15.1	379
178	Direct comparison of different stem cell types and subpopulations reveals superior paracrine potency and myocardial repair efficacy with cardiosphere-derived cells. <i>Journal of the American College of Cardiology</i> , <b>2012</b> , 59, 942-53	15.1	370
177	Biological pacemaker created by gene transfer. <i>Nature</i> , <b>2002</b> , 419, 132-3	50.4	351
176	Engraftment, differentiation, and functional benefits of autologous cardiosphere-derived cells in porcine ischemic cardiomyopathy. <i>Circulation</i> , <b>2009</b> , 120, 1075-83, 7 p following 1083	16.7	333
175	Cardiomyocyte Regeneration: A Consensus Statement. <i>Circulation</i> , <b>2017</b> , 136, 680-686	16.7	287
174	Cardiac channelopathies. <i>Nature</i> , <b>2002</b> , 415, 213-8	50.4	287
173	Exosomes secreted by cardiosphere-derived cells reduce scarring, attenuate adverse remodelling, and improve function in acute and chronic porcine myocardial infarction. <i>European Heart Journal</i> , <b>2017</b> , 38, 201-211	9.5	282
172	Role of Troponin I Proteolysis in the Pathogenesis of Stunned Myocardium. <i>Circulation Research</i> , <b>1997</b> , 80, 393-399	15.7	273

171	Endogenous nitric oxide mechanisms mediate the stretch dependence of Ca <sup>2+</sup> release in cardiomyocytes. <i>Nature Cell Biology</i> , <b>2001</b> , 3, 867-73	23.4	270
170	Assessment and optimization of cell engraftment after transplantation into the heart. <i>Circulation Research</i> , <b>2010</b> , 106, 479-94	15.7	251
169	Antiarrhythmic engineering of skeletal myoblasts for cardiac transplantation. <i>Circulation Research</i> , <b>2005</b> , 97, 159-67	15.7	245
168	Validation of the cardiosphere method to culture cardiac progenitor cells from myocardial tissue. <i>PLoS ONE</i> , <b>2009</b> , 4, e7195	3.7	229
167	Cardiomyocyte proliferation and progenitor cell recruitment underlie therapeutic regeneration after myocardial infarction in the adult mouse heart. <i>EMBO Molecular Medicine</i> , <b>2013</b> , 5, 191-209	12	221
166	Safety and efficacy of allogeneic cell therapy in infarcted rats transplanted with mismatched cardiosphere-derived cells. <i>Circulation</i> , <b>2012</b> , 125, 100-12	16.7	218
165	Noninvasive quantification and optimization of acute cell retention by in vivo positron emission tomography after intramyocardial cardiac-derived stem cell delivery. <i>Journal of the American College of Cardiology</i> , <b>2009</b> , 54, 1619-26	15.1	218
164	Direct conversion of quiescent cardiomyocytes to pacemaker cells by expression of Tbx18. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 54-62	44.5	216
163	Meta-Analysis of Cell-based CaRdiac stUdiEs (ACCRUE) in patients with acute myocardial infarction based on individual patient data. <i>Circulation Research</i> , <b>2015</b> , 116, 1346-60	15.7	213
162	Magnetic targeting enhances engraftment and functional benefit of iron-labeled cardiosphere-derived cells in myocardial infarction. <i>Circulation Research</i> , <b>2010</b> , 106, 1570-81	15.7	208
161	Cardiospheres recapitulate a niche-like microenvironment rich in stemness and cell-matrix interactions, rationalizing their enhanced functional potency for myocardial repair. <i>Stem Cells</i> , <b>2010</b> , 28, 2088-98	5.8	208
160	Intramyocardial injection of autologous cardiospheres or cardiosphere-derived cells preserves function and minimizes adverse ventricular remodeling in pigs with heart failure post-myocardial infarction. <i>Journal of the American College of Cardiology</i> , <b>2011</b> , 57, 455-65	15.1	187
159	Proarrhythmic potential of mesenchymal stem cell transplantation revealed in an in vitro coculture model. <i>Circulation</i> , <b>2006</b> , 113, 1832-41	16.7	186
158	Exosomal MicroRNA Transfer Into Macrophages Mediates Cellular Postconditioning. <i>Circulation</i> , <b>2017</b> , 136, 200-214	16.7	176
157	Focal modification of electrical conduction in the heart by viral gene transfer. <i>Nature Medicine</i> , <b>2000</b> , 6, 1395-8	50.5	171
156	Exosomes: Fundamental Biology and Roles in Cardiovascular Physiology. <i>Annual Review of Physiology</i> , <b>2016</b> , 78, 67-83	23.1	170
155	Cardiac BIN1 folds T-tubule membrane, controlling ion flux and limiting arrhythmia. <i>Nature Medicine</i> , <b>2014</b> , 20, 624-32	50.5	150
154	Cardiac cell therapy: where we've been, where we are, and where we should be headed. <i>British Medical Bulletin</i> , <b>2011</b> , 98, 161-85	5.4	150

153	Macrophages mediate cardioprotective cellular postconditioning in acute myocardial infarction. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 3147-62	15.9	149
152	Roles of exosomes in cardioprotection. <i>European Heart Journal</i> , <b>2017</b> , 38, 1372-1379	9.5	144
151	Dedifferentiation and proliferation of mammalian cardiomyocytes. <i>PLoS ONE</i> , <b>2010</b> , 5, e12559	3.7	141
150	Pharmacological Comparison of Native Mitochondrial KATP Channels with Molecularly Defined Surface KATP Channels. <i>Molecular Pharmacology</i> , <b>2001</b> , 59, 225-230	4.3	130
149	Y RNA fragment in extracellular vesicles confers cardioprotection via modulation of IL-10 expression and secretion. <i>EMBO Molecular Medicine</i> , <b>2017</b> , 9, 337-352	12	125
148	Isolation and expansion of functionally-competent cardiac progenitor cells directly from heart biopsies. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2010</b> , 49, 312-21	5.8	122
147	Phenotypic characterization of a novel long-QT syndrome mutation (R1623Q) in the cardiac sodium channel. <i>Circulation</i> , <b>1998</b> , 97, 640-4	16.7	122
146	Mitochondrial ATP-dependent potassium channels. Viable candidate effectors of ischemic preconditioning. <i>Annals of the New York Academy of Sciences</i> , <b>1999</b> , 874, 27-37	6.5	121
145	Biological pacemaker created by minimally invasive somatic reprogramming in pigs with complete heart block. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 245ra94	17.5	119
144	Physiological levels of reactive oxygen species are required to maintain genomic stability in stem cells. <i>Stem Cells</i> , <b>2010</b> , 28, 1178-85	5.8	116
143	Targeting extracellular vesicles to injured tissue using membrane cloaking and surface display. <i>Journal of Nanobiotechnology</i> , <b>2018</b> , 16, 61	9.4	105
142	Calcium cycling and contractile activation in intact mouse cardiac muscle. <i>Journal of Physiology</i> , <b>1998</b> , 507 ( Pt 1), 175-84	3.9	100
141	Fibroblasts Rendered Antifibrotic, Antiapoptotic, and Angiogenic by Priming With Cardiosphere-Derived Extracellular Membrane Vesicles. <i>Journal of the American College of Cardiology</i> , <b>2015</b> , 66, 599-611	15.1	93
140	Magnetic antibody-linked nanomatchmakers for therapeutic cell targeting. <i>Nature Communications</i> , <b>2014</b> , 5, 4880	17.4	93
139	Relative roles of CD90 and c-kit to the regenerative efficacy of cardiosphere-derived cells in humans and in a mouse model of myocardial infarction. <i>Journal of the American Heart Association</i> , <b>2014</b> , 3, e001260	6	90
138	Cellular basis of ventricular arrhythmias and abnormal automaticity in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1999</b> , 277, H80-91	5.2	90
137	Human cardiosphere-derived cells from advanced heart failure patients exhibit augmented functional potency in myocardial repair. <i>JACC: Heart Failure</i> , <b>2014</b> , 2, 49-61	7.9	88
136	Functional performance of human cardiosphere-derived cells delivered in an in situ polymerizable hyaluronan-gelatin hydrogel. <i>Biomaterials</i> , <b>2012</b> , 33, 5317-24	15.6	86

135	Validation of contrast-enhanced magnetic resonance imaging to monitor regenerative efficacy after cell therapy in a porcine model of convalescent myocardial infarction. <i>Circulation</i> , <b>2013</b> , 128, 2764-75	16.7	86
134	Identification and functionality of proteomes secreted by rat cardiac stem cells and neonatal cardiomyocytes. <i>Proteomics</i> , <b>2010</b> , 10, 245-53	4.8	84
133	Stimulation of endogenous cardioblasts by exogenous cell therapy after myocardial infarction. <i>EMBO Molecular Medicine</i> , <b>2014</b> , 6, 760-77	12	79
132	Molecular composition of mitochondrial ATP-sensitive potassium channels probed by viral Kir gene transfer. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2000</b> , 32, 1923-30	5.8	79
131	Biological therapies for cardiac arrhythmias: can genes and cells replace drugs and devices?. <i>Circulation Research</i> , <b>2010</b> , 106, 674-85	15.7	78
130	Magnetic enhancement of cell retention, engraftment, and functional benefit after intracoronary delivery of cardiac-derived stem cells in a rat model of ischemia/reperfusion. <i>Cell Transplantation</i> , <b>2012</b> , 21, 1121-35	4	74
129	Functional expression of exogenous proteins in mammalian sensory hair cells infected with adenoviral vectors. <i>Journal of Neurophysiology</i> , <b>1999</b> , 81, 1881-8	3.2	73
128	Next-generation pacemakers: from small devices to biological pacemakers. <i>Nature Reviews Cardiology</i> , <b>2018</b> , 15, 139-150	14.8	73
127	Translating stem cell research to cardiac disease therapies: pitfalls and prospects for improvement. <i>Journal of the American College of Cardiology</i> , <b>2014</b> , 64, 922-37	15.1	70
126	Allogeneic cardiospheres safely boost cardiac function and attenuate adverse remodeling after myocardial infarction in immunologically mismatched rat strains. <i>Journal of the American College of Cardiology</i> , <b>2013</b> , 61, 1108-19	15.1	70
125	Pre-existing traits associated with Covid-19 illness severity. <i>PLoS ONE</i> , <b>2020</b> , 15, e0236240	3.7	69
124	Expansion of human cardiac stem cells in physiological oxygen improves cell production efficiency and potency for myocardial repair. <i>Cardiovascular Research</i> , <b>2011</b> , 89, 157-65	9.9	68
123	Cardiosphere-derived cells reverse heart failure with preserved ejection fraction (HFpEF) in rats by decreasing fibrosis and inflammation. <i>JACC Basic To Translational Science</i> , <b>2016</b> , 1, 14-28	8.7	66
122	Cellular postconditioning: allogeneic cardiosphere-derived cells reduce infarct size and attenuate microvascular obstruction when administered after reperfusion in pigs with acute myocardial infarction. <i>Circulation: Heart Failure</i> , <b>2015</b> , 8, 322-32	7.6	65
121	Exosome-Mediated Benefits of Cell Therapy in Mouse and Human Models of Duchenne Muscular Dystrophy. <i>Stem Cell Reports</i> , <b>2018</b> , 10, 942-955	8	65
120	Therapeutic efficacy of cardiosphere-derived cells in a transgenic mouse model of non-ischaemic dilated cardiomyopathy. <i>European Heart Journal</i> , <b>2015</b> , 36, 751-62	9.5	64
119	Creation of a biological pacemaker by cell fusion. <i>Circulation Research</i> , <b>2007</b> , 100, 1112-5	15.7	61
118	The Secret Life of Exosomes: What Bees Can Teach Us About Next-Generation Therapeutics. <i>Journal of the American College of Cardiology</i> , <b>2018</b> , 71, 193-200	15.1	59

117	Human cardiospheres are a source of stem cells with cardiomyogenic potential. <i>Stem Cells</i> , <b>2010</b> , 28, 903-4	5.8	59
116	Is Kir6.1 a subunit of mitoK(ATP)?. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 366, 649-54	5.4	55
115	Mechanistic link between lidocaine block and inactivation probed by outer pore mutations in the rat micro1 skeletal muscle sodium channel. <i>Journal of Physiology</i> , <b>1998</b> , 512 ( Pt 3), 693-705	3.9	54
114	Lidocaine induces a slow inactivated state in rat skeletal muscle sodium channels. <i>Journal of Physiology</i> , <b>2000</b> , 524 Pt 1, 37-49	3.9	54
113	Non-equilibrium behavior of HCN channels: insights into the role of HCN channels in native and engineered pacemakers. <i>Cardiovascular Research</i> , <b>2005</b> , 67, 263-73	9.9	51
112	Importance of cell-cell contact in the therapeutic benefits of cardiosphere-derived cells. <i>Stem Cells</i> , <b>2014</b> , 32, 2397-406	5.8	50
111	Intrinsic cardiac origin of human cardiosphere-derived cells. <i>European Heart Journal</i> , <b>2013</b> , 34, 68-75	9.5	49
110	A mechanistic roadmap for the clinical application of cardiac cell therapies. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 353-361	19	48
109	Gene transfer of a synthetic pacemaker channel into the heart: a novel strategy for biological pacing. <i>Circulation</i> , <b>2006</b> , 114, 1682-6	16.7	48
108	Transcriptional suppression of connexin43 by TBX18 undermines cell-cell electrical coupling in postnatal cardiomyocytes. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 14073-9	5.4	47
107	Angiogenesis, cardiomyocyte proliferation and anti-fibrotic effects underlie structural preservation post-infarction by intramyocardially-injected cardiospheres. <i>PLoS ONE</i> , <b>2014</b> , 9, e88590	3.7	47
106	Stem cells in the heart: what's the buzz all about? Part 2: Arrhythmic risks and clinical studies. <i>Heart Rhythm</i> , <b>2008</b> , 5, 880-7	6.7	46
105	Ectopic expression of KCNE3 accelerates cardiac repolarization and abbreviates the QT interval. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 109, 1083-1090	15.9	45
104	Delayed Repolarization Underlies Ventricular Arrhythmias in Rats With Heart Failure and Preserved Ejection Fraction. <i>Circulation</i> , <b>2017</b> , 136, 2037-2050	16.7	43
103	Cardiac and skeletal muscle effects in the randomized HOPE-Duchenne trial. <i>Neurology</i> , <b>2019</b> , 92, e866-878	6.7	43
102	Cardiospheres reverse adverse remodeling in chronic rat myocardial infarction: roles of soluble endoglin and Tgf- $\beta$ signaling. <i>Basic Research in Cardiology</i> , <b>2014</b> , 109, 443	11.8	43
101	Dose-dependent functional benefit of human cardiosphere transplantation in mice with acute myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , <b>2012</b> , 16, 2112-6	5.6	43
100	IK1 heterogeneity affects genesis and stability of spiral waves in cardiac myocyte monolayers. <i>Circulation Research</i> , <b>2009</b> , 104, 355-64	15.7	42

99	Determination of location, size, and transmural of chronic myocardial infarction without exogenous contrast media by using cardiac magnetic resonance imaging at 3 T. <i>Circulation: Cardiovascular Imaging</i> , <b>2014</b> , 7, 471-81	3.9	41
98	Cardiac and systemic rejuvenation after cardiosphere-derived cell therapy in senescent rats. <i>European Heart Journal</i> , <b>2017</b> , 38, 2957-2967	9.5	40
97	Is Cardioprotection Dead?. <i>Circulation</i> , <b>2017</b> , 136, 98-109	16.7	40
96	Allogeneic cardiospheres delivered via percutaneous transendocardial injection increase viable myocardium, decrease scar size, and attenuate cardiac dilatation in porcine ischemic cardiomyopathy. <i>PLoS ONE</i> , <b>2014</b> , 9, e113805	3.7	40
95	Breakthroughs in cell therapy for heart disease: focus on cardiosphere-derived cells. <i>Mayo Clinic Proceedings</i> , <b>2014</b> , 89, 850-8	6.4	39
94	Enhancing retention and efficacy of cardiosphere-derived cells administered after myocardial infarction using a hyaluronan-gelatin hydrogel. <i>Biomatter</i> , <b>2013</b> , 3,		39
93	Augmenting canonical Wnt signalling in therapeutically inert cells converts them into therapeutically potent exosome factories. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 695-705	19	37
92	Transplantation of platelet gel spiked with cardiosphere-derived cells boosts structural and functional benefits relative to gel transplantation alone in rats with myocardial infarction. <i>Biomaterials</i> , <b>2012</b> , 33, 2872-9	15.6	37
91	Lentiviral vectors bearing the cardiac promoter of the Na <sup>+</sup> -Ca <sup>2+</sup> exchanger report cardiogenic differentiation in stem cells. <i>Molecular Therapy</i> , <b>2008</b> , 16, 957-64	11.7	37
90	Cardiospheres and cardiosphere-derived cells as therapeutic agents following myocardial infarction. <i>Expert Review of Cardiovascular Therapy</i> , <b>2012</b> , 10, 1185-94	2.5	36
89	Biological pacemaker created by percutaneous gene delivery via venous catheters in a porcine model of complete heart block. <i>Heart Rhythm</i> , <b>2012</b> , 9, 1310-8	6.7	35
88	Intracoronary ALlogeneic heart STem cells to Achieve myocardial Regeneration (ALLSTAR): a randomized, placebo-controlled, double-blinded trial. <i>European Heart Journal</i> , <b>2020</b> , 41, 3451-3458	9.5	35
87	A comprehensive method for identification of suitable reference genes in extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , <b>2017</b> , 6, 1347019	16.4	34
86	Allogeneic cardiosphere-derived cells (CAP-1002) in critically ill COVID-19 patients: compassionate-use case series. <i>Basic Research in Cardiology</i> , <b>2020</b> , 115, 36	11.8	33
85	Functional impairment of human resident cardiac stem cells by the cardiotoxic antineoplastic agent trastuzumab. <i>Stem Cells Translational Medicine</i> , <b>2012</b> , 1, 289-97	6.9	31
84	Disease-modifying bioactivity of intravenous cardiosphere-derived cells and exosomes in mdx mice. <i>JCI Insight</i> , <b>2019</b> , 4,	9.9	29
83	Heart to heart: cardiospheres for myocardial regeneration. <i>Heart Rhythm</i> , <b>2012</b> , 9, 1727-31	6.7	27
82	Repeated transplantation of allogeneic cardiosphere-derived cells boosts therapeutic benefits without immune sensitization in a rat model of myocardial infarction. <i>Journal of Heart and Lung Transplantation</i> , <b>2016</b> , 35, 1348-1357	5.8	27

81	Angiotensin II-Induced End-Organ Damage in Mice Is Attenuated by Human Exosomes and by an Exosomal Y RNA Fragment. <i>Hypertension</i> , <b>2018</b> , 72, 370-380	8.5	26
80	Durable Benefits of Cellular Postconditioning: Long-Term Effects of Allogeneic Cardiosphere-Derived Cells Infused After Reperfusion in Pigs with Acute Myocardial Infarction. <i>Journal of the American Heart Association</i> , <b>2016</b> , 5,	6	25
79	Ventricular Arrhythmias Underlie Sudden Death in Rats With Heart Failure and Preserved Ejection Fraction. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2018</b> , 11, e006452	6.4	25
78	Wnt signalling suppresses voltage-dependent Na <sup>+</sup> channel expression in postnatal rat cardiomyocytes. <i>Journal of Physiology</i> , <b>2015</b> , 593, 1147-57	3.9	25
77	Brief report: Mechanism of extravasation of infused stem cells. <i>Stem Cells</i> , <b>2012</b> , 30, 2835-42	5.8	24
76	Mechanism of Enhanced MerTK-Dependent Macrophage Efferocytosis by Extracellular Vesicles. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2019</b> , 39, 2082-2096	9.4	22
75	Epigenomic Reprogramming of Adult Cardiomyocyte-Derived Cardiac Progenitor Cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 17686	4.9	22
74	Allogeneic cardiosphere-derived cells for the treatment of heart failure with reduced ejection fraction: the Dilated cardiomyopathy iNtervention with Allogeneic Myocardially-regenerative Cells (DYNAMIC) trial. <i>EuroIntervention</i> , <b>2020</b> , 16, e293-e300	3.1	22
73	Widespread Myocardial Delivery of Heart-Derived Stem Cells by Nonocclusive Triple-Vessel Intracoronary Infusion in Porcine Ischemic Cardiomyopathy: Superior Attenuation of Adverse Remodeling Documented by Magnetic Resonance Imaging and Histology. <i>PLoS ONE</i> , <b>2016</b> , 11, e0144523	3.7	22
72	Mechanisms of atrial fibrillation in aged rats with heart failure with preserved ejection fraction. <i>Heart Rhythm</i> , <b>2020</b> , 17, 1025-1033	6.7	21
71	Intravenous xenogeneic human cardiosphere-derived cell extracellular vesicles (exosomes) improves behavioral function in small-clot embolized rabbits. <i>Experimental Neurology</i> , <b>2018</b> , 307, 109-117	5.7	21
70	Intracoronary delivery of self-assembling heart-derived microtissues (cardiospheres) for prevention of adverse remodeling in a pig model of convalescent myocardial infarction. <i>Circulation: Cardiovascular Interventions</i> , <b>2015</b> , 8,	6	21
69	A corrole nanobiologic elicits tissue-activated MRI contrast enhancement and tumor-targeted toxicity. <i>Journal of Controlled Release</i> , <b>2015</b> , 217, 92-101	11.7	20
68	Heart to heart: The elusive mechanism of cell therapy. <i>Circulation</i> , <b>2010</b> , 121, 1981-4	16.7	20
67	VAMP-1, VAMP-2, and syntaxin-4 regulate ANP release from cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2010</b> , 49, 791-800	5.8	20
66	Newt cells secrete extracellular vesicles with therapeutic bioactivity in mammalian cardiomyocytes. <i>Journal of Extracellular Vesicles</i> , <b>2018</b> , 7, 1456888	16.4	19
65	Diffusion Tensor Cardiac Magnetic Resonance Reveals Exosomes From Cardiosphere-Derived Cells Preserve Myocardial Fiber Architecture After Myocardial Infarction. <i>JACC Basic To Translational Science</i> , <b>2018</b> , 3, 97-109	8.7	19
64	Biological pacemakers as a therapy for cardiac arrhythmias. <i>Current Opinion in Cardiology</i> , <b>2008</b> , 23, 46-54.	11.1	19



63	Persistent Microvascular Obstruction After Myocardial Infarction Culminates in the Confluence of Ferric Iron Oxide Crystals, Proinflammatory Burden, and Adverse Remodeling. <i>Circulation: Cardiovascular Imaging</i> , <b>2016</b> , 9,	3.9	19
62	Creation of a biological pacemaker by gene- or cell-based approaches. <i>Medical and Biological Engineering and Computing</i> , <b>2007</b> , 45, 133-44	3.1	18
61	Disruption of Intracellular Ca <sup>2+</sup> Homeostasis in Hearts Reperfused after Prolonged Episodes of Ischemia a. <i>Annals of the New York Academy of Sciences</i> , <b>1994</b> , 723, 38-50	6.5	18
60	Engineered electrical conduction tract restores conduction in complete heart block: from in vitro to in vivo proof of concept. <i>Journal of the American College of Cardiology</i> , <b>2014</b> , 64, 2575-2585	15.1	17
59	Cardiac arrhythmias in hospitalized patients with COVID-19: A prospective observational study in the western United States. <i>PLoS ONE</i> , <b>2020</b> , 15, e0244533	3.7	17
58	Optimized CEST cardiovascular magnetic resonance for assessment of metabolic activity in the heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2017</b> , 19, 95	6.9	16
57	Moving beyond surrogate endpoints in cell therapy trials for heart disease. <i>Stem Cells Translational Medicine</i> , <b>2014</b> , 3, 2-6	6.9	15
56	Frequency-dependent changes in calcium cycling and contractile activation in SERCA2a transgenic mice. <i>Basic Research in Cardiology</i> , <b>2000</b> , 95, 144-51	11.8	15
55	Distinct features of calcium handling and $\beta$ adrenergic sensitivity in heart failure with preserved versus reduced ejection fraction. <i>Journal of Physiology</i> , <b>2020</b> , 598, 5091-5108	3.9	15
54	Extracellular Vesicles as Therapeutic Agents for Cardiac Fibrosis. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 479	4.6	12
53	Reverse electrical remodeling in rats with heart failure and preserved ejection fraction. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	12
52	Therapeutic benefits of intravenous cardiosphere-derived cell therapy in rats with pulmonary hypertension. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183557	3.7	12
51	Cardiac regeneration validated. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 587	44.5	9
50	Harnessing the heart's resistance to malignant tumors: cardiac-derived extracellular vesicles decrease fibrosarcoma growth and leukemia-related mortality in rodents. <i>Oncotarget</i> , <b>2017</b> , 8, 99624-99636	2.3	9
49	Virus-mediated modification of cellular excitability. <i>Annals of the New York Academy of Sciences</i> , <b>1999</b> , 868, 418-22	6.5	8
48	Extracellular vesicles from immortalized cardiosphere-derived cells attenuate arrhythmogenic cardiomyopathy in desmoglein-2 mutant mice. <i>European Heart Journal</i> , <b>2021</b> , 42, 3558-3571	9.5	8
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