

Eduardo Marbn

List of Publications by Year in descending order

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Version: 2024-02-01

191
papers

21,983
citations

11608

70
h-index

8835

145
g-index

199
all docs

199
docs citations

199
times ranked

17430
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracoronary cardiosphere-derived cells for heart regeneration after myocardial infarction (CADUCEUS): a prospective, randomised phase 1 trial. <i>Lancet</i> , The, 2012, 379, 895-904.	6.3	1,294
2	Regenerative Potential of Cardiosphere-Derived Cells Expanded From Percutaneous Endomyocardial Biopsy Specimens. <i>Circulation</i> , 2007, 115, 896-908.	1.6	1,074
3	Infarct Tissue Heterogeneity by Magnetic Resonance Imaging Identifies Enhanced Cardiac Arrhythmia Susceptibility in Patients With Left Ventricular Dysfunction. <i>Circulation</i> , 2007, 115, 2006-2014.	1.6	790
4	Mitochondrial ATP-Dependent Potassium Channels. <i>Circulation</i> , 1998, 97, 2463-2469.	1.6	781
5	c-kit+ cells minimally contribute cardiomyocytes to the heart. <i>Nature</i> , 2014, 509, 337-341.	13.7	723
6	Exosomes as Critical Agents of Cardiac Regeneration Triggered by Cell Therapy. <i>Stem Cell Reports</i> , 2014, 2, 606-619.	2.3	705
7	Relative Roles of Direct Regeneration Versus Paracrine Effects of Human Cardiosphere-Derived Cells Transplanted Into Infarcted Mice. <i>Circulation Research</i> , 2010, 106, 971-980.	2.0	609
8	COVID-19 and the Heart. <i>Circulation Research</i> , 2020, 126, 1443-1455.	2.0	574
9	Intracoronary Cardiosphere-Derived Cells After Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2014, 63, 110-122.	1.2	468
10	Functional Integration of Electrically Active Cardiac Derivatives From Genetically Engineered Human Embryonic Stem Cells With Quiescent Recipient Ventricular Cardiomyocytes. <i>Circulation</i> , 2005, 111, 11-20.	1.6	455
11	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> , 2012, 59, 942-953.	1.2	427
12	Biological pacemaker created by gene transfer. <i>Nature</i> , 2002, 419, 132-133.	13.7	421
13	Cardiomyocyte Regeneration. <i>Circulation</i> , 2017, 136, 680-686.	1.6	417
14	Engraftment, Differentiation, and Functional Benefits of Autologous Cardiosphere-Derived Cells in Porcine Ischemic Cardiomyopathy. <i>Circulation</i> , 2009, 120, 1075-1083.	1.6	383
15	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> , 2017, 38, ehw240.	1.0	374
16	Role of Troponin I Proteolysis in the Pathogenesis of Stunned Myocardium. <i>Circulation Research</i> , 1997, 80, 393-399.	2.0	347
17	Cardiac channelopathies. <i>Nature</i> , 2002, 415, 213-218.	13.7	334
18	Endogenous nitric oxide mechanisms mediate the stretch dependence of Ca ²⁺ release in cardiomyocytes. <i>Nature Cell Biology</i> , 2001, 3, 867-873.	4.6	295

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19	Assessment and Optimization of Cell Engraftment After Transplantation Into the Heart. <i>Circulation Research</i> , 2010, 106, 479-494.	2.0	291
20	Direct conversion of quiescent cardiomyocytes to pacemaker cells by expression of Tbx18. <i>Nature Biotechnology</i> , 2013, 31, 54-62.	9.4	274
21	Antiarrhythmic Engineering of Skeletal Myoblasts for Cardiac Transplantation. <i>Circulation Research</i> , 2005, 97, 159-167.	2.0	273
22	Meta-Analysis of Cell-based CaRdiac stUdiEs (ACCRUE) in Patients With Acute Myocardial Infarction Based on Individual Patient Data. <i>Circulation Research</i> , 2015, 116, 1346-1360.	2.0	270
23	Cardiomyocyte proliferation and progenitor cell recruitment underlie therapeutic regeneration after myocardial infarction in the adult mouse heart. <i>EMBO Molecular Medicine</i> , 2013, 5, 191-209.	3.3	268
24	Safety and Efficacy of Allogeneic Cell Therapy in Infarcted Rats Transplanted With Mismatched Cardiosphere-Derived Cells. <i>Circulation</i> , 2012, 125, 100-112.	1.6	262
25	Exosomal MicroRNA Transfer Into Macrophages Mediates Cellular Postconditioning. <i>Circulation</i> , 2017, 136, 200-214.	1.6	261
26	Validation of the Cardiosphere Method to Culture Cardiac Progenitor Cells from Myocardial Tissue. <i>PLoS ONE</i> , 2009, 4, e7195.	1.1	252
27	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> , 2009, 54, 1619-1626.	1.2	245
28	Exosomes: Fundamental Biology and Roles in Cardiovascular Physiology. <i>Annual Review of Physiology</i> , 2016, 78, 67-83.	5.6	236
29	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> , 2010, 28, 2088-2098.	1.4	232
30	Magnetic Targeting Enhances Engraftment and Functional Benefit of Iron-Labeled Cardiosphere-Derived Cells in Myocardial Infarction. <i>Circulation Research</i> , 2010, 106, 1570-1581.	2.0	226
31	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> , 2011, 57, 455-465.	1.2	222
32	Roles of exosomes in cardioprotection. <i>European Heart Journal</i> , 2017, 38, ehw304.	1.0	213
33	Proarrhythmic Potential of Mesenchymal Stem Cell Transplantation Revealed in an In Vitro Coculture Model. <i>Circulation</i> , 2006, 113, 1832-1841.	1.6	204
34	Cardiac BIN1 folds T-tubule membrane, controlling ion flux and limiting arrhythmia. <i>Nature Medicine</i> , 2014, 20, 624-632.	15.2	203
35	Focal modification of electrical conduction in the heart by viral gene transfer. <i>Nature Medicine</i> , 2000, 6, 1395-1398.	15.2	197
36	Macrophages mediate cardioprotective cellular postconditioning in acute myocardial infarction. <i>Journal of Clinical Investigation</i> , 2015, 125, 3147-3162.	3.9	197

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37	Cardiac cell therapy: where we've been, where we are, and where we should be headed. <i>British Medical Bulletin</i> , 2011, 98, 161-185.	2.7	174
38	Y RNA fragment in extracellular vesicles confers cardioprotection via modulation of IL-10 expression and secretion. <i>EMBO Molecular Medicine</i> , 2017, 9, 337-352.	3.3	171
39	Dedifferentiation and Proliferation of Mammalian Cardiomyocytes. <i>PLoS ONE</i> , 2010, 5, e12559.	1.1	166
40	Targeting extracellular vesicles to injured tissue using membrane cloaking and surface display. <i>Journal of Nanobiotechnology</i> , 2018, 16, 61.	4.2	161
41	Biological pacemaker created by minimally invasive somatic reprogramming in pigs with complete heart block. <i>Science Translational Medicine</i> , 2014, 6, 245ra94.	5.8	151
42	Phenotypic Characterization of a Novel Long-QT Syndrome Mutation (R1623Q) in the Cardiac Sodium Channel. <i>Circulation</i> , 1998, 97, 640-644.	1.6	138
43	Mitochondrial ATP-Dependent Potassium Channels: Viable Candidate Effectors of Ischemic Preconditioning. <i>Annals of the New York Academy of Sciences</i> , 1999, 874, 27-37.	1.8	137
44	Pharmacological Comparison of Native Mitochondrial KATP Channels with Molecularly Defined Surface KATP Channels. <i>Molecular Pharmacology</i> , 2001, 59, 225-230.	1.0	137
45	Physiological Levels of Reactive Oxygen Species Are Required to Maintain Genomic Stability in Stem Cells. <i>Stem Cells</i> , 2010, 28, 1178-1185.	1.4	134
46	Isolation and expansion of functionally-competent cardiac progenitor cells directly from heart biopsies. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 312-321.	0.9	129
47	Pre-existing traits associated with Covid-19 illness severity. <i>PLoS ONE</i> , 2020, 15, e0236240.	1.1	129
48	Fibroblasts Rendered Antifibrotic, Antiapoptotic, and Angiogenic by Priming With Cardiosphere-Derived Extracellular Membrane Vesicles. <i>Journal of the American College of Cardiology</i> , 2015, 66, 599-611.	1.2	124
49	Next-generation pacemakers: from small devices to biological pacemakers. <i>Nature Reviews Cardiology</i> , 2018, 15, 139-150.	6.1	123
50	Magnetic antibody-linked nanomatchmakers for therapeutic cell targeting. <i>Nature Communications</i> , 2014, 5, 4880.	5.8	119
51	Cellular basis of ventricular arrhythmias and abnormal automaticity in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H80-H91.	1.5	118
52	Calcium cycling and contractile activation in intact mouse cardiac muscle. <i>Journal of Physiology</i> , 1998, 507, 175-184.	1.3	113
53	Relative Roles of CD90 and cKit 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> , 2014, 3, e001260.	1.6	104
54	Exosome-Mediated Benefits of Cell Therapy in Mouse and Human Models of Duchenne Muscular Dystrophy. <i>Stem Cell Reports</i> , 2018, 10, 942-955.	2.3	101

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55	Functional performance of human cardiosphere-derived cells delivered in an in situ polymerizable hyaluronan-gelatin hydrogel. <i>Biomaterials</i> , 2012, 33, 5317-5324.	5.7	100
56	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> , 2013, 128, 2764-2775.	1.6	100
57	Human Cardiosphere-Derived Cells From Advanced Heart Failure Patients Exhibit Augmented Functional Potency in Myocardial Repair. <i>JACC: Heart Failure</i> , 2014, 2, 49-61.	1.9	100
58	Identification and functionality of proteomes secreted by rat cardiac stem cells and neonatal cardiomyocytes. <i>Proteomics</i> , 2010, 10, 245-253.	1.3	98
59	Biological Therapies for Cardiac Arrhythmias. <i>Circulation Research</i> , 2010, 106, 674-685.	2.0	96
60	Cardiosphere-Derived Cells Reverse Heart Failure With Preserved Ejection Fraction in Rats by Decreasing Fibrosis and Inflammation. <i>JACC Basic To Translational Science</i> , 2016, 1, 14-28.	1.9	95
61	The Secret Life of Exosomes. <i>Journal of the American College of Cardiology</i> , 2018, 71, 193-200.	1.2	92
62	Expansion of human cardiac stem cells in physiological oxygen improves cell production efficiency and potency for myocardial repair. <i>Cardiovascular Research</i> , 2011, 89, 157-165.	1.8	89
63	Molecular Composition of Mitochondrial ATP-sensitive Potassium Channels Probed by Viral Kir Gene Transfer. <i>Journal of Molecular and Cellular Cardiology</i> , 2000, 32, 1923-1930.	0.9	86
64	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> , 2012, 21, 1121-1135.	1.2	86
65	Translating Stem Cell Research to Cardiac Disease Therapies. <i>Journal of the American College of Cardiology</i> , 2014, 64, 922-937.	1.2	85
66	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> , 2013, 61, 1108-1119.	1.2	83
67	Stimulation of endogenous cardioblasts by exogenous cell therapy after myocardial infarction. <i>EMBO Molecular Medicine</i> , 2014, 6, 760-777.	3.3	82
68	Cellular Postconditioning. <i>Circulation: Heart Failure</i> , 2015, 8, 322-332.	1.6	79
69	Therapeutic efficacy of cardiosphere-derived cells in a transgenic mouse model of non-ischaemic dilated cardiomyopathy. <i>European Heart Journal</i> , 2015, 36, 751-762.	1.0	79
70	Intracoronary ALlogeneic heart STem cells to Achieve myocardial Regeneration (ALLSTAR): a randomized, placebo-controlled, double-blinded trial. <i>European Heart Journal</i> , 2020, 41, 3451-3458.	1.0	78
71	A mechanistic roadmap for the clinical application of cardiac cell therapies. <i>Nature Biomedical Engineering</i> , 2018, 2, 353-361.	11.6	77
72	Functional Expression of Exogenous Proteins in Mammalian Sensory Hair Cells Infected With Adenoviral Vectors. <i>Journal of Neurophysiology</i> , 1999, 81, 1881-1888.	0.9	76

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73	Creation of a Biological Pacemaker by Cell Fusion. <i>Circulation Research</i> , 2007, 100, 1112-1115.	2.0	73
74	Intrinsic cardiac origin of human cardiosphere-derived cells. <i>European Heart Journal</i> , 2013, 34, 68-75.	1.0	68
75	Human Cardiospheres Are a Source of Stem Cells with Cardiomyogenic Potential. <i>Stem Cells</i> , 2010, 28, 903-904.	1.4	67
76	Cardiac and systemic rejuvenation after cardiosphere-derived cell therapy in senescent rats. <i>European Heart Journal</i> , 2017, 38, 2957-2967.	1.0	65
77	Cardiac and skeletal muscle effects in the randomized HOPE-Duchenne trial. <i>Neurology</i> , 2019, 92, e866-e878.	1.5	64
78	Mechanistic link between lidocaine block and inactivation probed by outer pore mutations in the rat β 1 skeletal muscle sodium channel. <i>Journal of Physiology</i> , 1998, 512, 693-705.	1.3	63
79	Lidocaine induces a slow inactivated state in rat skeletal muscle sodium channels. <i>Journal of Physiology</i> , 2000, 524, 37-49.	1.3	63
80	Non-equilibrium behavior of HCN channels: Insights into the role of HCN channels in native and engineered pacemakers. <i>Cardiovascular Research</i> , 2005, 67, 263-273.	1.8	63
81	Is Kir6.1 a subunit of mitoKATP?. <i>Biochemical and Biophysical Research Communications</i> , 2008, 366, 649-656.	1.0	63
82	Transcriptional Suppression of Connexin43 by TBX18 Undermines Cell-Cell Electrical Coupling in Postnatal Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2011, 286, 14073-14079.	1.6	60
83	Gene Transfer of a Synthetic Pacemaker Channel Into the Heart. <i>Circulation</i> , 2006, 114, 1682-1686.	1.6	58
84	A comprehensive method for identification of suitable reference genes in extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1347019.	5.5	58
85	Is Cardioprotection Dead?. <i>Circulation</i> , 2017, 136, 98-109.	1.6	58
86	Angiogenesis, Cardiomyocyte Proliferation and Anti-Fibrotic Effects Underlie Structural Preservation Post-Infarction by Intramyocardially-Injected Cardiospheres. <i>PLoS ONE</i> , 2014, 9, e88590.	1.1	58
87	Disease-modifying bioactivity of intravenous cardiosphere-derived cells and exosomes in mdx mice. <i>JCI Insight</i> , 2019, 4, .	2.3	56
88	Importance of Cell-Cell Contact in the Therapeutic Benefits of Cardiosphere-Derived Cells. <i>Stem Cells</i> , 2014, 32, 2397-2406.	1.4	55
89	Delayed Repolarization Underlies Ventricular Arrhythmias in Rats With Heart Failure and Preserved Ejection Fraction. <i>Circulation</i> , 2017, 136, 2037-2050.	1.6	54
90	$K1$ Heterogeneity Affects Genesis and Stability of Spiral Waves in Cardiac Myocyte Monolayers. <i>Circulation Research</i> , 2009, 104, 355-364.	2.0	53

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91	Cardiospheres reverse adverse remodeling in chronic rat myocardial infarction: roles of soluble endoglin and Tgf- β 2 signaling. <i>Basic Research in Cardiology</i> , 2014, 109, 443.	2.5	52
92	Augmenting canonical Wnt signalling in therapeutically inert cells converts them into therapeutically potent exosome factories. <i>Nature Biomedical Engineering</i> , 2019, 3, 695-705.	11.6	52
93	Determination of Location, Size, and Transmurality of Chronic Myocardial Infarction Without Exogenous Contrast Media by Using Cardiac Magnetic Resonance Imaging at 3 T. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 471-481.	1.3	51
94	Stem cells in the heart: What's the buzz all about? Part 2: Arrhythmic risks and clinical studies. <i>Heart Rhythm</i> , 2008, 5, 880-887.	0.3	49
95	Dose-dependent functional benefit of human cardiosphere transplantation in mice with acute myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 2112-2116.	1.6	49
96	Angiotensin II-induced End-Organ Damage in Mice Is Attenuated by Human Exosomes and by an Exosomal Y RNA Fragment. <i>Hypertension</i> , 2018, 72, 370-380.	1.3	49
97	Mechanism of Enhanced MerTK-Dependent Macrophage Efferocytosis by Extracellular Vesicles. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2082-2096.	1.1	49
98	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> , 2014, 9, e113805.	1.1	48
99	Ectopic expression of KCNE3 accelerates cardiac repolarization and abbreviates the QT interval. <i>Journal of Clinical Investigation</i> , 2002, 109, 1083-1090.	3.9	48
100	Cardiospheres and cardiosphere-derived cells as therapeutic agents following myocardial infarction. <i>Expert Review of Cardiovascular Therapy</i> , 2012, 10, 1185-1194.	0.6	45
101	Enhancing retention and efficacy of cardiosphere-derived cells administered after myocardial infarction using a hyaluronan-gelatin hydrogel. <i>Biomatter</i> , 2013, 3, .	2.6	45
102	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> , 2012, 33, 2872-2879.	5.7	44
103	Breakthroughs in Cell Therapy for Heart Disease: Focus on Cardiosphere-Derived Cells. <i>Mayo Clinic Proceedings</i> , 2014, 89, 850-858.	1.4	44
104	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> , 2016, 9, .	1.3	44
105	Allogeneic cardiosphere-derived cells (CAP-1002) in critically ill COVID-19 patients: compassionate-use case series. <i>Basic Research in Cardiology</i> , 2020, 115, 36.	2.5	44
106	Extracellular vesicles from immortalized cardiosphere-derived cells attenuate arrhythmogenic cardiomyopathy in desmoglein-2 mutant mice. <i>European Heart Journal</i> , 2021, 42, 3558-3571.	1.0	44
107	Basic and Translational Research in Cardiac Repair and Regeneration. <i>Journal of the American College of Cardiology</i> , 2021, 78, 2092-2105.	1.2	42
108	Biological pacemaker created by percutaneous gene delivery via venous catheters in a porcine model of complete heart block. <i>Heart Rhythm</i> , 2012, 9, 1310-1318.	0.3	41

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109	Lentiviral Vectors Bearing the Cardiac Promoter of the Na ⁺ -Ca ²⁺ Exchanger Report Cardiogenic Differentiation in Stem Cells. <i>Molecular Therapy</i> , 2008, 16, 957-964.	3.7	40
110	Mixed Results for Bone Marrow-Derived Cell Therapy for Ischemic Heart Disease. <i>JAMA - Journal of the American Medical Association</i> , 2012, 308, 2405.	3.8	39
111	Distinct features of calcium handling and β -adrenergic sensitivity in heart failure with preserved versus reduced ejection fraction. <i>Journal of Physiology</i> , 2020, 598, 5091-5108.	1.3	37
112	Functional Impairment of Human Resident Cardiac Stem Cells by the Cardiotoxic Antineoplastic Agent Trastuzumab. <i>Stem Cells Translational Medicine</i> , 2012, 1, 289-297.	1.6	36
113	Repeated intravenous cardiosphere-derived cell therapy in late-stage Duchenne muscular dystrophy (HOPE-2): a multicentre, randomised, double-blind, placebo-controlled, phase 2 trial. <i>Lancet</i> , 2022, 399, 1049-1058.	6.3	36
114	Mechanisms of atrial fibrillation in aged rats with heart failure with preserved ejection fraction. <i>Heart Rhythm</i> , 2020, 17, 1025-1033.	0.3	34
115	Ventricular Arrhythmias Underlie Sudden Death in Rats With Heart Failure and Preserved Ejection Fraction. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006452.	2.1	33
116	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> , 2016, 5, .	1.6	32
117	Cardiac arrhythmias in hospitalized patients with COVID-19: A prospective observational study in the western United States. <i>PLoS ONE</i> , 2020, 15, e0244533.	1.1	32
118	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> , 2020, 16, e293-e300.	1.4	32
119	Wnt signalling suppresses voltage-dependent Na ⁺ channel expression in postnatal rat cardiomyocytes. <i>Journal of Physiology</i> , 2015, 593, 1147-1157.	1.3	31
120	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> , 2016, 11, e0144523.	1.1	31
121	Heart to heart: Cardiospheres for myocardial regeneration. <i>Heart Rhythm</i> , 2012, 9, 1727-1731.	0.3	30
122	Newt cells secrete extracellular vesicles with therapeutic bioactivity in mammalian cardiomyocytes. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1456888.	5.5	30
123	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> , 2016, 35, 1348-1357.	0.3	29
124	Optimized CEST cardiovascular magnetic resonance for assessment of metabolic activity in the heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 95.	1.6	29
125	Intravenous xenogeneic human cardiosphere-derived cell extracellular vesicles (exosomes) improves behavioral function in small-clot embolized rabbits. <i>Experimental Neurology</i> , 2018, 307, 109-117.	2.0	29
126	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> , 2015, 8, .	1.4	28

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127	A corrole nanobiologic elicits tissue-activated MRI contrast enhancement and tumor-targeted toxicity. <i>Journal of Controlled Release</i> , 2015, 217, 92-101.	4.8	28
128	Brief Report: Mechanism of Extravasation of Infused Stem Cells. <i>Stem Cells</i> , 2012, 30, 2835-2842.	1.4	27
129	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> , 2018, 3, 97-109.	1.9	27
130	Epigenomic Reprogramming of Adult Cardiomyocyte-Derived Cardiac Progenitor Cells. <i>Scientific Reports</i> , 2015, 5, 17686.	1.6	25
131	Biological pacemakers as a therapy for cardiac arrhythmias. <i>Current Opinion in Cardiology</i> , 2008, 23, 46-54.	0.8	24
132	VAMP-1, VAMP-2, and syntaxin-4 regulate ANP release from cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 791-800.	0.9	24
133	Engineered Electrical Conduction Tract Restores Conduction in Complete Heart Block. <i>Journal of the American College of Cardiology</i> , 2014, 64, 2575-2585.	1.2	24
134	Extracellular Vesicles as Therapeutic Agents for Cardiac Fibrosis. <i>Frontiers in Physiology</i> , 2020, 11, 479.	1.3	23
135	Creation of a biological pacemaker by gene- or cell-based approaches. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 133-144.	1.6	22
136	Reverse electrical remodeling in rats with heart failure and preserved ejection fraction. <i>JCI Insight</i> , 2018, 3, .	2.3	22
137	Heart to Heart. <i>Circulation</i> , 2010, 121, 1981-1984.	1.6	21
138	Disruption of Intracellular Ca ²⁺ Homeostasis in Hearts Reperfused after Prolonged Episodes of Ischemia a. <i>Annals of the New York Academy of Sciences</i> , 1994, 723, 38-50.	1.8	19
139	Frequency-dependent changes in calcium cycling and contractile activation in SERCA2a transgenic mice. <i>Basic Research in Cardiology</i> , 2000, 95, 144-151.	2.5	17
140	Biological substrate modification suppresses ventricular arrhythmias in a porcine model of chronic ischaemic cardiomyopathy. <i>European Heart Journal</i> , 2022, 43, 2139-2156.	1.0	17
141	Moving Beyond Surrogate Endpoints in Cell Therapy Trials for Heart Disease. <i>Stem Cells Translational Medicine</i> , 2014, 3, 2-6.	1.6	16
142	Antegrade Conduction Rescues Right Ventricular Pacing-Induced Cardiomyopathy in Complete Heart Block. <i>Journal of the American College of Cardiology</i> , 2019, 73, 1673-1687.	1.2	16
143	Therapeutic benefits of intravenous cardiosphere-derived cell therapy in rats with pulmonary hypertension. <i>PLoS ONE</i> , 2017, 12, e0183557.	1.1	16
144	Myofilament Phosphorylation in Stem Cell Treated Diastolic Heart Failure. <i>Circulation Research</i> , 2021, 129, 1125-1140.	2.0	16

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145	Effect of cardiosphere-derived cells on segmental myocardial function after myocardial infarction: ALLSTAR randomised clinical trial. <i>Open Heart</i> , 2021, 8, e001614.	0.9	15
146	Pathogenesis of arrhythmogenic cardiomyopathy: role of inflammation. <i>Basic Research in Cardiology</i> , 2021, 116, 39.	2.5	14
147	Direct and Indirect Suppression of Scn5a Gene Expression Mediates Cardiac Na ⁺ Channel Inhibition by Wnt Signalling. <i>Canadian Journal of Cardiology</i> , 2020, 36, 564-576.	0.8	12
148	Harnessing the heart's resistance to malignant tumors: cardiac-derived extracellular vesicles decrease fibrosarcoma growth and leukemia-related mortality in rodents. <i>Oncotarget</i> , 2017, 8, 99624-99636.	0.8	12
149	Exosomally derived Y RNA fragment alleviates hypertrophic cardiomyopathy in transgenic mice. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 24, 951-960.	2.3	11
150	Biodistribution of unmodified cardiosphere-derived cell extracellular vesicles using single RNA tracing. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12178.	5.5	11
151	Cardiac regeneration validated. <i>Nature Biotechnology</i> , 2015, 33, 587-587.	9.4	9
152	Direct Reprogramming. <i>JAMA - Journal of the American Medical Association</i> , 2015, 314, 19.	3.8	9
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