# Eduardo MarbÃ¡n

List of Publications by Year
in descending order



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|---|---|---|---|
| 191 papers | 21,983 citations | 11651 70 h-index | 8866 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. Lancet, The, 2012, 379, 895-904. | 13.7 | 1,294 |
| 2 | Regenerative Potential of Cardiosphere-Derived Cells Expanded From Percutaneous Endomyocardial Biopsy Specimens. Circulation, 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. Circulation, 2007, 115, 2006-2014. | 1.6 | 790 |
| 4 | Mitochondrial ATP-Dependent Potassium Channels. Circulation, 1998, 97, 2463-2469. | 1.6 | 781 |
| 5 | c-kit+ cells minimally contribute cardiomyocytes to the heart. Nature, 2014, 509, 337-341. | 27.8 | 723 |
| 6 | Exosomes as Critical Agents of Cardiac Regeneration Triggered by Cell Therapy. Stem Cell Reports, 2014, 2, 606-619. | 4.8 | 705 |
| 7 | Relative Roles of Direct Regeneration Versus Paracrine Effects of Human Cardiosphere-Derived Cells Transplanted Into Infarcted Mice. Circulation Research, 2010, 106, 971-980. | 4.5 | 609 |
| 8 | COVID-19 and the Heart. Circulation Research, 2020, 126, 1443-1455. | 4.5 | 574 |
| 9 | Intracoronary Cardiosphere-Derived Cells After Myocardial Infarction. Journal of the American College of Cardiology, 2014, 63, 110-122. | 2.8 | 468 |
| 10 | Functional Integration of Electrically Active Cardiac Derivatives From Genetically Engineered Human Embryonic Stem Cells With Quiescent Recipient Ventricular Cardiomyocytes. Circulation, 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. Journal of the American College of Cardiology, 2012, 59, 942-953. | 2.8 | 427 |
| 12 | Biological pacemaker created by gene transfer. Nature, 2002, 419, 132-133. | 27.8 | 421 |
| 13 | Cardiomyocyte Regeneration. Circulation, 2017, 136, 680-686. | 1.6 | 417 |
| 14 | Engraftment, Differentiation, and Functional Benefits of Autologous Cardiosphere-Derived Cells in Porcine Ischemic Cardiomyopathy. Circulation, 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. European Heart Journal, 2017, 38, ehw240. | 2.2 | 374 |
| 16 | Role of Troponin I Proteolysis in the Pathogenesis of Stunned Myocardium. Circulation Research, 1997, 80, 393-399. | 4.5 | 347 |
| 17 | Cardiac channelopathies. Nature, 2002, 415, 213-218. | 27.8 | 334 |
| 18 | Endogenous nitric oxide mechanisms mediate the stretch dependence of Ca2+ release in cardiomyocytes. Nature Cell Biology, 2001, 3, 867-873. | 10.3 | 295 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Assessment and Optimization of Cell Engraftment After Transplantation Into the Heart. Circulation Research, 2010, 106, 479-494. | 4.5 | 291 |
| 20 | Direct conversion of quiescent cardiomyocytes to pacemaker cells by expression of Tbx18. Nature Biotechnology, 2013, 31, 54-62. | 17.5 | 274 |
| 21 | Antiarrhythmic Engineering of Skeletal Myoblasts for Cardiac Transplantation. Circulation Research, 2005, 97, 159-167. | 4.5 | 273 |
| 22 | Meta-Analysis of Cell-based CaRdiac stUdiEs (ACCRUE) in Patients With Acute Myocardial Infarction Based on Individual Patient Data. Circulation Research, 2015, 116, 1346-1360. | 4.5 | 270 |
| 23 | Cardiomyocyte proliferation and progenitor cell recruitment underlie therapeutic regeneration after myocardial infarction in the adult mouse heart. EMBO Molecular Medicine, 2013, 5, 191-209. | 6.9 | 268 |
| 24 | Safety and Efficacy of Allogeneic Cell Therapy in Infarcted Rats Transplanted With Mismatched Cardiosphere-Derived Cells. Circulation, 2012, 125, 100-112. | 1.6 | 262 |
| 25 | Exosomal MicroRNA Transfer Into Macrophages Mediates Cellular Postconditioning. Circulation, 2017, 136, 200-214. | 1.6 | 261 |
| 26 | Validation of the Cardiosphere Method to Culture Cardiac Progenitor Cells from Myocardial Tissue. PLoS ONE, 2009, 4, e7195. | 2.5 | 252 |
| 27 | Noninvasive Quantification and Optimization of Acute Cell Retention by In Vivo Positron Emission Tomography After Intramyocardial Cardiac-Derived Stem Cell Delivery. Journal of the American College of Cardiology, 2009, 54, 1619-1626. | 2.8 | 245 |
| 28 | Exosomes: Fundamental Biology and Roles in Cardiovascular Physiology. Annual Review of Physiology, 2016, 78, 67-83. | 13.1 | 236 |
| 29 | Cardiospheres Recapitulate a Niche-Like Microenvironment Rich in Stemness and Cell-Matrix Interactions, Rationalizing Their Enhanced Functional Potency for Myocardial Repair. Stem Cells, 2010, 28, 2088-2098. | 3.2 | 232 |
| 30 | Magnetic Targeting Enhances Engraftment and Functional Benefit of Iron-Labeled Cardiosphere-Derived Cells in Myocardial Infarction. Circulation Research, 2010, 106, 1570-1581. | 4.5 | 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. Journal of the American College of Cardiology, 2011, 57, 455-465. | 2.8 | 222 |
| 32 | Roles of exosomes in cardioprotection. European Heart Journal, 2017, 38, ehw304. | 2.2 | 213 |
| 33 | Proarrhythmic Potential of Mesenchymal Stem Cell Transplantation Revealed in an In Vitro Coculture Model. Circulation, 2006, 113, 1832-1841. | 1.6 | 204 |
| 34 | Cardiac BIN1 folds T-tubule membrane, controlling ion flux and limiting arrhythmia. Nature Medicine, 2014, 20, 624-632. | 30.7 | 203 |
| 35 | Focal modification of electrical conduction in the heart by viral gene transfer. Nature Medicine, 2000, 6, 1395-1398. | 30.7 | 197 |
| 36 | Macrophages mediate cardioprotective cellular postconditioning in acute myocardial infarction. Journal of Clinical Investigation, 2015, 125, 3147-3162. | 8.2 | 197 |

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| 37 | Cardiac cell therapy: where we've been, where we are, and where we should be headed. British Medical Bulletin, 2011, 98, 161-185. | 6.9 | 174 |
| 38 | Y <scp>RNA</scp> fragment in extracellular vesicles confers cardioprotection via modulation of <scp>IL</scp> â€•10 expression and secretion. EMBO Molecular Medicine, 2017, 9, 337-352. | 6.9 | 171 |
| 39 | Dedifferentiation and Proliferation of Mammalian Cardiomyocytes. PLoS ONE, 2010, 5, e12559. | 2.5 | 166 |
| 40 | Targeting extracellular vesicles to injured tissue using membrane cloaking and surface display. Journal of Nanobiotechnology, 2018, 16, 61. | 9.1 | 161 |
| 41 | Biological pacemaker created by minimally invasive somatic reprogramming in pigs with complete heart block. Science Translational Medicine, 2014, 6, 245ra94. | 12.4 | 151 |
| 42 | Phenotypic Characterization of a Novel Long-QT Syndrome Mutation (R1623Q) in the Cardiac Sodium Channel. Circulation, 1998, 97, 640-644. | 1.6 | 138 |
| 43 | Mitochondrial ATP-Dependent Potassium Channels: Viable Candidate Effectors of Ischemic Preconditioninga. Annals of the New York Academy of Sciences, 1999, 874, 27-37. | 3.8 | 137 |
| 44 | Pharmacological Comparison of Native Mitochondrial KATP Channels with Molecularly Defined Surface KATP Channels. Molecular Pharmacology, 2001, 59, 225-230. | 2.3 | 137 |
| 45 | Physiological Levels of Reactive Oxygen Species Are Required to Maintain Genomic Stability in Stem Cells. Stem Cells, 2010, 28, 1178-1185. | 3.2 | 134 |
| 46 | Isolation and expansion of functionally-competent cardiac progenitor cells directly from heart biopsies. Journal of Molecular and Cellular Cardiology, 2010, 49, 312-321. | 1.9 | 129 |
| 47 | Pre-existing traits associated with Covid-19 illness severity. PLoS ONE, 2020, 15, e0236240. | 2.5 | 129 |
| 48 | Fibroblasts Rendered Antifibrotic, Antiapoptotic, and Angiogenic by Priming With Cardiosphere-Derived Extracellular Membrane Vesicles. Journal of the American College of Cardiology, 2015, 66, 599-611. | 2.8 | 124 |
| 49 | Next-generation pacemakers: from small devices to biological pacemakers. Nature Reviews Cardiology, 2018, 15, 139-150. | 13.7 | 123 |
| 50 | Magnetic antibody-linked nanomatchmakers for therapeutic cell targeting. Nature Communications, 2014, 5, 4880. | 12.8 | 119 |
| 51 | Cellular basis of ventricular arrhythmias and abnormal automaticity in heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H80-H91. | 3.2 | 118 |
| 52 | Calcium cycling and contractile activation in intact mouse cardiac muscle. Journal of Physiology, 1998, 507, 175-184. | 2.9 | 113 |
| 53 | Relative Roles of CD90 and câ€Kit to the Regenerative Efficacy of Cardiosphereâ€Derived Cells in Humans and in a Mouse Model of Myocardial Infarction. Journal of the American Heart Association, 2014, 3, e001260. | 3.7 | 104 |
| 54 | Exosome-Mediated Benefits of Cell Therapy in Mouse and Human Models of Duchenne Muscular Dystrophy. Stem Cell Reports, 2018, 10, 942-955. | 4.8 | 101 |

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| 55 | Functional performance of human cardiosphere-derived cells delivered in an in situ polymerizable hyaluronan-gelatin hydrogel. Biomaterials, 2012, 33, 5317-5324. | 11.4 | 100 |
| 56 | Validation of Contrast-Enhanced Magnetic Resonance Imaging to Monitor Regenerative Efficacy After Cell Therapy in a Porcine Model of Convalescent Myocardial Infarction. Circulation, 2013, 128, 2764-2775. | 1.6 | 100 |
| 57 | Human Cardiosphere-Derived Cells FromÂAdvanced Heart Failure Patients ExhibitÂAugmented Functional Potency in Myocardial Repair. JACC: Heart Failure, 2014, 2, 49-61. | 4.1 | 100 |
| 58 | Identification and functionality of proteomes secreted by rat cardiac stem cells and neonatal cardiomyocytes. Proteomics, 2010, 10, 245-253. | 2.2 | 98 |
| 59 | Biological Therapies for Cardiac Arrhythmias. Circulation Research, 2010, 106, 674-685. | 4.5 | 96 |
| 60 | Cardiosphere-Derived Cells Reverse Heart Failure With Preserved Ejection Fraction inÂRats by Decreasing Fibrosis andÂInflammation. JACC Basic To Translational Science, 2016, 1, 14-28. | 4.1 | 95 |
| 61 | The Secret Life of Exosomes. Journal of the American College of Cardiology, 2018, 71, 193-200. | 2.8 | 92 |
| 62 | Expansion of human cardiac stem cells in physiological oxygen improves cell production efficiency and potency for myocardial repair. Cardiovascular Research, 2011, 89, 157-165. | 3.8 | 89 |
| 63 | Molecular Composition of Mitochondrial ATP-sensitive Potassium Channels Probed by Viral Kir Gene Transfer. Journal of Molecular and Cellular Cardiology, 2000, 32, 1923-1930. | 1.9 | 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. Cell Transplantation, 2012, 21, 1121-1135. | 2.5 | 86 |
| 65 | Translating Stem Cell Research to Cardiac Disease Therapies. Journal of the American College of Cardiology, 2014, 64, 922-937. | 2.8 | 85 |
| 66 | Allogeneic Cardiospheres Safely Boost Cardiac Function and Attenuate Adverse Remodeling After Myocardial Infarction in Immunologically Mismatched Rat Strains. Journal of the American College of Cardiology, 2013, 61, 1108-1119. | 2.8 | 83 |
| 67 | Stimulation of endogenous cardioblasts by exogenous cell therapy after myocardial infarction. EMBO Molecular Medicine, 2014, 6, 760-777. | 6.9 | 82 |
| 68 | Cellular Postconditioning. Circulation: Heart Failure, 2015, 8, 322-332. | 3.9 | 79 |
| 69 | Therapeutic efficacy of cardiosphere-derived cells in a transgenic mouse model of non-ischaemic dilated cardiomyopathy. European Heart Journal, 2015, 36, 751-762. | 2.2 | 79 |
| 70 | Intracoronary ALLogeneic heart STem cells to Achieve myocardial Regeneration (ALLSTAR): a randomized, placebo-controlled, double-blinded trial. European Heart Journal, 2020, 41, 3451-3458. | 2.2 | 78 |
| 71 | A mechanistic roadmap for the clinical application of cardiac cell therapies. Nature Biomedical Engineering, 2018, 2, 353-361. | 22.5 | 77 |
| 72 | Functional Expression of Exogenous Proteins in Mammalian Sensory Hair Cells Infected With Adenoviral Vectors. Journal of Neurophysiology, 1999, 81, 1881-1888. | 1.8 | 76 |

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| 73 | Creation of a Biological Pacemaker by Cell Fusion. Circulation Research, 2007, 100, 1112-1115. | 4.5 | 73 |
| 74 | Intrinsic cardiac origin of human cardiosphere-derived cells. European Heart Journal, 2013, 34, 68-75. | 2.2 | 68 |
| 75 | Human Cardiospheres Are a Source of Stem Cells with Cardiomyogenic Potential. Stem Cells, 2010, 28, 903-904. | 3.2 | 67 |
| 76 | Cardiac and systemic rejuvenation after cardiosphere-derived cell therapy in senescent rats. European Heart Journal, 2017, 38, 2957-2967. | 2.2 | 65 |
| 77 | Cardiac and skeletal muscle effects in the randomized HOPE-Duchenne trial. Neurology, 2019, 92, e866-e878. | 1.1 | 64 |
| 78 | Mechanistic link between lidocaine block and inactivation probed by outer pore mutations in the rat Î¼1 skeletal muscle sodium channel. Journal of Physiology, 1998, 512, 693-705. | 2.9 | 63 |
| 79 | Lidocaine induces a slow inactivated state in rat skeletal muscle sodium channels. Journal of Physiology, 2000, 524, 37-49. | 2.9 | 63 |
| 80 | Non-equilibrium behavior of HCN channels: Insights into the role of HCN channels in native and engineered pacemakers. Cardiovascular Research, 2005, 67, 263-273. | 3.8 | 63 |
| 81 | Is Kir6.1 a subunit of mitoKATP?. Biochemical and Biophysical Research Communications, 2008, 366, 649-656. | 2.1 | 63 |
| 82 | Transcriptional Suppression of Connexin43 by TBX18 Undermines Cell-Cell Electrical Coupling in Postnatal Cardiomyocytes. Journal of Biological Chemistry, 2011, 286, 14073-14079. | 3.4 | 60 |
| 83 | Gene Transfer of a Synthetic Pacemaker Channel Into the Heart. Circulation, 2006, 114, 1682-1686. | 1.6 | 58 |
| 84 | A comprehensive method for identification of suitable reference genes in extracellular vesicles. Journal of Extracellular Vesicles, 2017, 6, 1347019. | 12.2 | 58 |
| 85 | Is Cardioprotection Dead?. Circulation, 2017, 136, 98-109. | 1.6 | 58 |
| 86 | Angiogenesis, Cardiomyocyte Proliferation and Anti-Fibrotic Effects Underlie Structural Preservation Post-Infarction by Intramyocardially-Injected Cardiospheres. PLoS ONE, 2014, 9, e88590. | 2.5 | 58 |
| 87 | Disease-modifying bioactivity of intravenous cardiosphere-derived cells and exosomes in mdx mice. JCI Insight, 2019, 4, . | 5.0 | 56 |
| 88 | Importance of Cell-Cell Contact in the Therapeutic Benefits of Cardiosphere-Derived Cells. Stem Cells, 2014, 32, 2397-2406. | 3.2 | 55 |
| 89 | Delayed Repolarization Underlies Ventricular Arrhythmias in Rats With Heart Failure and Preserved Ejection Fraction. Circulation, 2017, 136, 2037-2050. | 1.6 | 54 |
| 90 | <i>I</i> <sub>K1</sub> Heterogeneity Affects Genesis and Stability of Spiral Waves in Cardiac Myocyte Monolayers. Circulation Research, 2009, 104, 355-364. | 4.5 | 53 |

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| 91 | Cardiospheres reverse adverse remodeling in chronic rat myocardial infarction: roles of soluble endoglin and Tgf-Î² signaling. Basic Research in Cardiology, 2014, 109, 443. | 5.9 | 52 |
| 92 | Augmenting canonical Wnt signalling in therapeutically inert cells converts them into therapeutically potent exosome factories. Nature Biomedical Engineering, 2019, 3, 695-705. | 22.5 | 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. Circulation: Cardiovascular Imaging, 2014, 7, 471-481. | 2.6 | 51 |
| 94 | Stem cells in the heart: What's the buzz all about? Part 2: Arrhythmic risks and clinical studies. Heart Rhythm, 2008, 5, 880-887. | 0.7 | 49 |
| 95 | Doseâ€dependent functional benefit of human cardiosphere transplantation in mice with acute myocardial infarction. Journal of Cellular and Molecular Medicine, 2012, 16, 2112-2116. | 3.6 | 49 |
| 96 | Angiotensin IIâ€"Induced End-Organ Damage in Mice Is Attenuated by Human Exosomes and by an Exosomal Y RNA Fragment. Hypertension, 2018, 72, 370-380. | 2.7 | 49 |
| 97 | Mechanism of Enhanced MerTK-Dependent Macrophage Efferocytosis by Extracellular Vesicles. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2082-2096. | 2.4 | 49 |
| 98 | Allogeneic Cardiospheres Delivered via Percutaneous Transendocardial Injection Increase Viable Myocardium, Decrease Scar Size, and Attenuate Cardiac Dilatation in Porcine Ischemic Cardiomyopathy. PLoS ONE, 2014, 9, e113805. | 2.5 | 48 |
| 99 | Ectopic expression of KCNE3 accelerates cardiac repolarization and abbreviates the QT interval. Journal of Clinical Investigation, 2002, 109, 1083-1090. | 8.2 | 48 |
| 100 | Cardiospheres and cardiosphere-derived cells as therapeutic agents following myocardial infarction. Expert Review of Cardiovascular Therapy, 2012, 10, 1185-1194. | 1.5 | 45 |
| 101 | Enhancing retention and efficacy of cardiosphere-derived cells administered after myocardial infarction using a hyaluronan-gelatin hydrogel. Biomatter, 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. Biomaterials, 2012, 33, 2872-2879. | 11.4 | 44 |
| 103 | Breakthroughs in Cell Therapy for Heart Disease: Focus on Cardiosphere-Derived Cells. Mayo Clinic Proceedings, 2014, 89, 850-858. | 3.0 | 44 |
| 104 | Persistent Microvascular Obstruction After Myocardial Infarction Culminates in the Confluence of Ferric Iron Oxide Crystals, Proinflammatory Burden, and Adverse Remodeling. Circulation: Cardiovascular Imaging, 2016, 9, . | 2.6 | 44 |
| 105 | Allogeneic cardiosphere-derived cells (CAP-1002) in critically ill COVID-19 patients: compassionate-use case series. Basic Research in Cardiology, 2020, 115, 36. | 5.9 | 44 |
| 106 | Extracellular vesicles from immortalized cardiosphere-derived cells attenuate arrhythmogenic cardiomyopathy in desmoglein-2 mutant mice. European Heart Journal, 2021, 42, 3558-3571. | 2.2 | 44 |
| 107 | Basic and Translational Research in Cardiac Repair and Regeneration. Journal of the American College of Cardiology, 2021, 78, 2092-2105. | 2.8 | 42 |
| 108 | Biological pacemaker created by percutaneous gene delivery via venous catheters in a porcine model of complete heart block. Heart Rhythm, 2012, 9, 1310-1318. | 0.7 | 41 |

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| 109 | Lentiviral Vectors Bearing the Cardiac Promoter of the Na+-Ca2+ Exchanger Report Cardiogenic Differentiation in Stem Cells. Molecular Therapy, 2008, 16, 957-964. | 8.2 | 40 |
| 110 | Mixed Results for Bone Marrowâ€"Derived Cell Therapy for Ischemic Heart Disease. JAMA - Journal of the American Medical Association, 2012, 308, 2405. | 7.4 | 39 |
| 111 | Distinct features of calcium handling and Î²â€adrenergic sensitivity in heart failure with preserved <i>versus</i> reduced ejection fraction. Journal of Physiology, 2020, 598, 5091-5108. | 2.9 | 37 |
| 112 | Functional Impairment of Human Resident Cardiac Stem Cells by the Cardiotoxic Antineoplastic Agent Trastuzumab. Stem Cells Translational Medicine, 2012, 1, 289-297. | 3.3 | 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. Lancet, The, 2022, 399, 1049-1058. | 13.7 | 36 |
| 114 | Mechanisms of atrial fibrillation in aged rats with heart failure with preserved ejection fraction. Heart Rhythm, 2020, 17, 1025-1033. | 0.7 | 34 |
| 115 | Ventricular Arrhythmias Underlie Sudden Death in Rats With Heart Failure and Preserved Ejection Fraction. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006452. | 4.8 | 33 |
| 116 | Durable Benefits of Cellular Postconditioning: Longâ€Term Effects of Allogeneic Cardiosphereâ€Derived Cells Infused After Reperfusion in Pigs with Acute Myocardial Infarction. Journal of the American Heart Association, 2016, 5, . | 3.7 | 32 |
| 117 | Cardiac arrhythmias in hospitalized patients with COVID-19: A prospective observational study in the western United States. PLoS ONE, 2020, 15, e0244533. | 2.5 | 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. EuroIntervention, 2020, 16, e293-e300. | 3.2 | 32 |
| 119 | Wnt signalling suppresses voltageâ€dependent Na<sup>+</sup> channel expression in postnatal rat cardiomyocytes. Journal of Physiology, 2015, 593, 1147-1157. | 2.9 | 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. PLoS ONE, 2016, 11, e0144523. | 2.5 | 31 |
| 121 | Heart to heart: Cardiospheres for myocardial regeneration. Heart Rhythm, 2012, 9, 1727-1731. | 0.7 | 30 |
| 122 | Newt cells secrete extracellular vesicles with therapeutic bioactivity in mammalian cardiomyocytes. Journal of Extracellular Vesicles, 2018, 7, 1456888. | 12.2 | 30 |
| 123 | Repeated transplantation of allogeneic cardiosphere-derived cells boosts therapeutic benefits without immune sensitization in a rat model of myocardial infarction. Journal of Heart and Lung Transplantation, 2016, 35, 1348-1357. | 0.6 | 29 |
| 124 | Optimized CEST cardiovascular magnetic resonance for assessment of metabolic activity in the heart. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 95. | 3.3 | 29 |
| 125 | Intravenous xenogeneic human cardiosphere-derived cell extracellular vesicles (exosomes) improves behavioral function in small-clot embolized rabbits. Experimental Neurology, 2018, 307, 109-117. | 4.1 | 29 |
| 126 | Intracoronary Delivery of Self-Assembling Heart-Derived Microtissues (Cardiospheres) for Prevention of Adverse Remodeling in a Pig Model of Convalescent Myocardial Infarction. Circulation: Cardiovascular Interventions, 2015, 8, . | 3.9 | 28 |

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|---|---|---|---|
| 127 | A corrole nanobiologic elicits tissue-activated MRI contrast enhancement and tumor-targeted toxicity. Journal of Controlled Release, 2015, 217, 92-101. | 9.9 | 28 |
| 128 | Brief Report: Mechanism of Extravasation of Infused Stem Cells. Stem Cells, 2012, 30, 2835-2842. | 3.2 | 27 |
| 129 | Diffusion Tensor Cardiac Magnetic Resonance Reveals Exosomes From Cardiosphere-Derived Cells Preserve Myocardial Fiber Architecture After Myocardial Infarction. JACC Basic To Translational Science, 2018, 3, 97-109. | 4.1 | 27 |
| 130 | Epigenomic Reprogramming of Adult Cardiomyocyte-Derived Cardiac Progenitor Cells. Scientific Reports, 2015, 5, 17686. | 3.3 | 25 |
| 131 | Biological pacemakers as a therapy for cardiac arrhythmias. Current Opinion in Cardiology, 2008, 23, 46-54. | 1.8 | 24 |
| 132 | VAMP-1, VAMP-2, and syntaxin-4 regulate ANP release from cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2010, 49, 791-800. | 1.9 | 24 |
| 133 | Engineered Electrical Conduction TractÂRestores Conduction in CompleteÂHeart Block. Journal of the American College of Cardiology, 2014, 64, 2575-2585. | 2.8 | 24 |
| 134 | Extracellular Vesicles as Therapeutic Agents for Cardiac Fibrosis. Frontiers in Physiology, 2020, 11, 479. | 2.8 | 23 |
| 135 | Creation of a biological pacemaker by gene- or cell-based approaches. Medical and Biological Engineering and Computing, 2007, 45, 133-144. | 2.8 | 22 |
| 136 | Reverse electrical remodeling in rats with heart failure and preserved ejection fraction. JCI Insight, 2018, 3, . | 5.0 | 22 |
| 137 | Heart to Heart. Circulation, 2010, 121, 1981-1984. | 1.6 | 21 |
| 138 | Disruption of Intracellular Ca2+ Homeostasis in Hearts Reperfused after Prolonged Episodes of Ischemia a. Annals of the New York Academy of Sciences, 1994, 723, 38-50. | 3.8 | 19 |
| 139 | Frequency-dependent changes in calcium cycling and contractile activation in SERCA2a transgenic mice. Basic Research in Cardiology, 2000, 95, 144-151. | 5.9 | 17 |
| 140 | Biological substrate modification suppresses ventricular arrhythmias in a porcine model of chronic ischaemic cardiomyopathy. European Heart Journal, 2022, 43, 2139-2156. | 2.2 | 17 |
| 141 | Moving Beyond Surrogate Endpoints in Cell Therapy Trials for Heart Disease. Stem Cells Translational Medicine, 2014, 3, 2-6. | 3.3 | 16 |
| 142 | Antegrade Conduction Rescues RightÂVentricular Pacing-Induced Cardiomyopathy in Complete Heart Block. Journal of the American College of Cardiology, 2019, 73, 1673-1687. | 2.8 | 16 |
| 143 | Therapeutic benefits of intravenous cardiosphere-derived cell therapy in rats with pulmonary hypertension. PLoS ONE, 2017, 12, e0183557. | 2.5 | 16 |
| 144 | Myofilament Phosphorylation in Stem Cell Treated Diastolic Heart Failure. Circulation Research, 2021, 129, 1125-1140. | 4.5 | 16 |

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| 145 | Effect of cardiosphere-derived cells on segmental myocardial function after myocardial infarction: ALLSTAR randomised clinical trial. Open Heart, 2021, 8, e001614. | 2.3 | 15 |
| 146 | Pathogenesis of arrhythmogenic cardiomyopathy: role of inflammation. Basic Research in Cardiology, 2021, 116, 39. | 5.9 | 14 |
| 147 | Direct and Indirect Suppression of Scn5a Gene Expression Mediates Cardiac Na+ Channel Inhibition by Wnt Signalling. Canadian Journal of Cardiology, 2020, 36, 564-576. | 1.7 | 12 |
| 148 | Harnessing the heartâ€™s resistance to malignant tumors: cardiac-derived extracellular vesicles decrease fibrosarcoma growth and leukemia-related mortality in rodents. Oncotarget, 2017, 8, 99624-99636. | 1.8 | 12 |
| 149 | Exosomally derived Y RNA fragment alleviates hypertrophic cardiomyopathy in transgenic mice. Molecular Therapy - Nucleic Acids, 2021, 24, 951-960. | 5.1 | 11 |
| 150 | Biodistribution of unmodified cardiosphereâ€derived cell extracellular vesicles using single RNA tracing. Journal of Extracellular Vesicles, 2022, 11, e12178. | 12.2 | 11 |
| 151 | Cardiac regeneration validated. Nature Biotechnology, 2015, 33, 587-587. | 17.5 | 9 |
| 152 | Direct Reprogramming. JAMA - Journal of the American Medical Association, 2015, 314, 19. | 7.4 | 9 |
| 153 | Quantitative Hybrid Cardiac [18F]FDG-PET-MRI Images for Assessment of Cardiac Repair by Preconditioned Cardiosphere-Derived Cells. Molecular Therapy - Methods and Clinical Development, 2020, 18, 354-366. | 4.1 | 9 |
| 154 | Cardiosphere-derived cells, with and without a biological scaffold, stimulate myogenesis and recovery of muscle function in mice with volumetric muscle loss. Biomaterials, 2021, 274, 120852. | 11.4 | 9 |
| 155 | Caseinâ€enhanced uptake and diseaseâ€modifying bioactivity of ingested extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12045. | 12.2 | 9 |
| 156 | Virus-Mediated Modification of Cellular Excitability. Annals of the New York Academy of Sciences, 1999, 868, 418-422. | 3.8 | 8 |
| 157 | Repeated cell transplantation and adjunct renal denervation in ischemic heart failure: exploring modalities for improving cell therapy efficacy. Basic Research in Cardiology, 2019, 114, 9. | 5.9 | 8 |
| 158 | Electrocardiogram-less, free-breathing myocardial extracellular volume fraction mapping in small animals at high heart rates using motion-resolved cardiovascular magnetic resonance multitasking: a feasibility study in a heart failure with preserved ejection fraction rat model. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 8. | 3.3 | 8 |
| 159 | Delayed repolarization and ventricular tachycardia in patients with heart failure and preserved ejection fraction. PLoS ONE, 2021, 16, e0254641. | 2.5 | 8 |
| 160 | Engineered Fibroblast Extracellular Vesicles Attenuate Pulmonary Inflammation and Fibrosis in Bleomycin-Induced Lung Injury. Frontiers in Cell and Developmental Biology, 2021, 9, 733158. | 3.7 | 8 |
| 161 | Mechanistic and therapeutic distinctions between cardiosphere-derived cell and mesenchymal stem cell extracellular vesicle non-coding RNA. Scientific Reports, 2021, 11, 8666. | 3.3 | 7 |
| 162 | Regulatory T cell activation, proliferation, and reprogramming induced by extracellular vesicles. Journal of Heart and Lung Transplantation, 2021, 40, 1387-1395. | 0.6 | 7 |

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