

Ren-Ke Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

289
papers

15,532
citations

65
h-index

114
g-index

305
ext. papers

16,937
ext. citations

6.5
avg, IF

6.05
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 289 | Commentary: Toward the creation of a functional cardiac patch for repair and regeneration.. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2022 , | 1.5 | |
| 288 | MiR-30 promotes fatty acid beta-oxidation and endothelial cell dysfunction and is a circulating biomarker of coronary microvascular dysfunction in pre-clinical models of diabetes.. <i>Cardiovascular Diabetology</i> , 2022 , 21, 31 | 8.7 | 3 |
| 287 | Bio-Conductive Polymers for Treating Myocardial Conductive Defects: Long-Term Efficacy Study. <i>Advanced Healthcare Materials</i> , 2021 , e2101838 | 10.1 | 2 |
| 286 | Aging impairs human bone marrow function and cardiac repair following myocardial infarction in a humanized chimeric mouse. <i>Aging Cell</i> , 2021 , 20, e13494 | 9.9 | 1 |
| 285 | An electro-spun tri-component polymer biomaterial with optoelectronic properties for neuronal differentiation. <i>Acta Biomaterialia</i> , 2021 , 139, 82-82 | 10.8 | 6 |
| 284 | Human endometrium-derived stem cell improves cardiac function after myocardial ischemic injury by enhancing angiogenesis and myocardial metabolism. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 344 | 8.3 | 0 |
| 283 | Age-related defects in autophagy alter the secretion of paracrine factors from bone marrow mononuclear cells. <i>Aging</i> , 2021 , 13, 14687-14708 | 5.6 | 1 |
| 282 | Delineating the relationship between immune system aging and myogenesis in muscle repair. <i>Aging Cell</i> , 2021 , 20, e13312 | 9.9 | 7 |
| 281 | Injectable conductive hydrogel can reduce pacing threshold and enhance efficacy of cardiac pacemaker. <i>Theranostics</i> , 2021 , 11, 3948-3960 | 12.1 | 4 |
| 280 | Knock-out of MicroRNA 145 impairs cardiac fibroblast function and wound healing post-myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 9409-9419 | 5.6 | 6 |
| 279 | Rectification of radiotherapy-induced cognitive impairments in aged mice by reconstituted Sca-1 stem cells from young donors. <i>Journal of Neuroinflammation</i> , 2020 , 17, 51 | 10.1 | 6 |
| 278 | Cellular senescence contributes to age-dependent changes in circulating extracellular vesicle cargo and function. <i>Aging Cell</i> , 2020 , 19, e13103 | 9.9 | 42 |
| 277 | A conductive cell-delivery construct as a bioengineered patch that can improve electrical propagation and synchronize cardiomyocyte contraction for heart repair. <i>Journal of Controlled Release</i> , 2020 , 320, 73-82 | 11.7 | 28 |
| 276 | A self-doping conductive polymer hydrogel that can restore electrical impulse propagation at myocardial infarct to prevent cardiac arrhythmia and preserve ventricular function. <i>Biomaterials</i> , 2020 , 231, 119672 | 15.6 | 42 |
| 275 | Protective role of Nrf2 against ischemia reperfusion injury and cardiac allograft vasculopathy. <i>American Journal of Transplantation</i> , 2020 , 20, 1262-1271 | 8.7 | 11 |
| 274 | Mesenchymal Stromal Cells from Patients with Cyanotic Congenital Heart Disease are Optimal Candidate for Cardiac Tissue Engineering. <i>Biomaterials</i> , 2020 , 230, 119574 | 15.6 | 9 |
| 273 | Transplanted microvessels improve pluripotent stem cell-derived cardiomyocyte engraftment and cardiac function after infarction in rats. <i>Science Translational Medicine</i> , 2020 , 12, | 17.5 | 26 |

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| 272 | Evidence for the existence of CD34 angiogenic stem cells in human first-trimester decidua and their therapeutic for ischaemic heart disease. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 11837-11848 | 5.6 | 3 |
| 271 | The conductive function of biopolymer corrects myocardial scar conduction blockage and resynchronizes contraction to prevent heart failure. <i>Biomaterials</i> , 2020 , 258, 120285 | 15.6 | 18 |
| 270 | Considering Cause and Effect of Immune Cell Aging on Cardiac Repair after Myocardial Infarction. <i>Cells</i> , 2020 , 9, | 7.9 | 5 |
| 269 | CD34 Stem Cells: Promising Roles in Cardiac Repair and Regeneration. <i>Canadian Journal of Cardiology</i> , 2019 , 35, 1311-1321 | 3.8 | 13 |
| 268 | Novel mediators of aneurysm progression in bicuspid aortic valve disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 132, 71-83 | 5.8 | 6 |
| 267 | Human Embryonic Stem Cell-Derived Cardiomyocytes Regenerate the Infarcted Pig Heart but Induce Ventricular Tachyarrhythmias. <i>Stem Cell Reports</i> , 2019 , 12, 967-981 | 8 | 127 |
| 266 | Knockout of Canopy 2 activates p16 pathway to impair cardiac repair. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 132, 36-48 | 5.8 | 2 |
| 265 | Commentary: Circulating factors released after myocardial infarction: Beneficial or detrimental?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019 , 157, 2270-2271 | 1.5 | |
| 264 | Long-term repopulation of aged bone marrow stem cells using young Sca-1 cells promotes aged heart rejuvenation. <i>Aging Cell</i> , 2019 , 18, e13026 | 9.9 | 13 |
| 263 | Effect of neuron-derived neurotrophic factor on rejuvenation of human adipose-derived stem cells for cardiac repair after myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 5981-5993 | 5.6 | 6 |
| 262 | Insulin-like growth factor binding protein related protein 1 knockdown attenuates hepatic fibrosis via the regulation of MMPs/TIMPs in mice. <i>Hepatobiliary and Pancreatic Diseases International</i> , 2019 , 18, 38-47 | 2.1 | 10 |
| 261 | Preservation of conductive propagation after surgical repair of cardiac defects with a bio-engineered conductive patch. <i>Journal of Heart and Lung Transplantation</i> , 2018 , 37, 912-924 | 5.8 | 22 |
| 260 | Bioactive coating of decellularized vascular grafts with a temperature-sensitive VEGF-conjugated hydrogel accelerates autologous endothelialization in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e513-e522 | 4.4 | 31 |
| 259 | Emerging roles of extracellular vesicles in cardiac repair and rejuvenation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H733-H744 | 5.2 | 24 |
| 258 | Young Bone Marrow Sca-1 Cells Rejuvenate the Aged Heart by Promoting Epithelial-to-Mesenchymal Transition. <i>Theranostics</i> , 2018 , 8, 1766-1781 | 12.1 | 13 |
| 257 | Polypyrrole-chitosan conductive biomaterial synchronizes cardiomyocyte contraction and improves myocardial electrical impulse propagation. <i>Theranostics</i> , 2018 , 8, 2752-2764 | 12.1 | 87 |
| 256 | Sirtuin3 protects aged human mesenchymal stem cells against oxidative stress and enhances efficacy of cell therapy for ischaemic heart diseases. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 5504-5517 | 5.6 | 19 |
| 255 | Young bone marrow Sca-1 cells protect aged retina from ischaemia-reperfusion injury through activation of FGF2. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 6176-6189 | 5.6 | 9 |

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| 254 | Suppression of miR-34a Expression in the Myocardium Protects Against Ischemia-Reperfusion Injury Through SIRT1 Protective Pathway. <i>Stem Cells and Development</i> , 2017 , 26, 1270-1282 | 4.4 | 30 |
| 253 | Dual roles for bone marrow-derived Sca-1 cells in cardiac function. <i>FASEB Journal</i> , 2017 , 31, 2905-2915 | 0.9 | 5 |
| 252 | Young Bone-Marrow Sca-1 Stem Cells Rejuvenate the Aged Heart and Improve Function after Injury through PDGFR/Akt pathway. <i>Scientific Reports</i> , 2017 , 7, 41756 | 4.9 | 21 |
| 251 | Targeted myocardial delivery of GDF11 gene rejuvenates the aged mouse heart and enhances myocardial regeneration after ischemia-reperfusion injury. <i>Basic Research in Cardiology</i> , 2017 , 112, 7 | 11.8 | 56 |
| 250 | Flexible shape-memory scaffold for minimally invasive delivery of functional tissues. <i>Nature Materials</i> , 2017 , 16, 1038-1046 | 27 | 217 |
| 249 | Ultrasound-targeted microbubble destruction in gene therapy: A new tool to cure human diseases. <i>Genes and Diseases</i> , 2017 , 4, 64-74 | 6.6 | 19 |
| 248 | Aged Human Multipotent Mesenchymal Stromal Cells Can Be Rejuvenated by Neuron-Derived Neurotrophic Factor and Improve Heart Function After Injury. <i>JACC Basic To Translational Science</i> , 2017 , 2, 702-716 | 8.7 | 18 |
| 247 | A Circular RNA Binds To and Activates AKT Phosphorylation and Nuclear Localization Reducing Apoptosis and Enhancing Cardiac Repair. <i>Theranostics</i> , 2017 , 7, 3842-3855 | 12.1 | 206 |
| 246 | Nr2e1 Downregulation Is Involved in Excess Retinoic Acid-induced Developmental Abnormality in the Mouse Brain. <i>Biomedical and Environmental Sciences</i> , 2017 , 30, 185-193 | 1.1 | 3 |
| 245 | VEGF-loaded microsphere patch for local protein delivery to the ischemic heart. <i>Acta Biomaterialia</i> , 2016 , 45, 169-181 | 10.8 | 48 |
| 244 | Uterine-Derived CD11b Cells Significantly Increase Vasculogenesis and Promote Myocardial Healing in Ischemic Cardiomyopathy. <i>Cell Transplantation</i> , 2016 , 25, 1665-1674 | 4 | 0 |
| 243 | Progressive Aortic Dilation Is Regulated by miR-17-Associated miRNAs. <i>Journal of the American College of Cardiology</i> , 2016 , 67, 2965-77 | 15.1 | 38 |
| 242 | Class II transactivator knockdown limits major histocompatibility complex II expression, diminishes immune rejection, and improves survival of allogeneic bone marrow stem cells in the infarcted heart. <i>FASEB Journal</i> , 2016 , 30, 3069-82 | 0.9 | 21 |
| 241 | Application of Biomaterials in Cardiac Repair and Regeneration. <i>Engineering</i> , 2016 , 2, 141-148 | 9.7 | 57 |
| 240 | Decreasing CNPY2 Expression Diminishes Colorectal Tumor Growth and Development through Activation of p53 Pathway. <i>American Journal of Pathology</i> , 2016 , 186, 1015-24 | 5.8 | 22 |
| 239 | Mast cells promote proliferation and migration and inhibit differentiation of mesenchymal stem cells through PDGF. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 94, 32-42 | 5.8 | 27 |
| 238 | Knockdown of SIRT6 Enables Human Bone Marrow Mesenchymal Stem Cell Senescence. <i>Rejuvenation Research</i> , 2016 , 19, 373-384 | 2.6 | 17 |
| 237 | Non-invasive Macrophage Tracking Using Novel Porphysome Nanoparticles in the Post-myocardial Infarction Murine Heart. <i>Molecular Imaging and Biology</i> , 2016 , 18, 557-68 | 3.8 | 11 |

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| 236 | Cellular, structural and functional cardiac remodelling following pressure overload and unloading. <i>International Journal of Cardiology</i> , 2016 , 216, 32-42 | 3.2 | 7 |
| 235 | The IMPACT-CABG trial: A multicenter, randomized clinical trial of CD133 stem cell therapy during coronary artery bypass grafting for ischemic cardiomyopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016 , 152, 1582-1588.e2 | 1.5 | 29 |
| 234 | Phenotypic switching of vascular smooth muscle cells in the normal region of aorta from atherosclerosis patients is regulated by miR-145. <i>Journal of Cellular and Molecular Medicine</i> , 2016 , 20, 1049-61 | 5.6 | 74 |
| 233 | A secreted protein (Canopy 2, CNPY2) enhances angiogenesis and promotes smooth muscle cell migration and proliferation. <i>Cardiovascular Research</i> , 2015 , 105, 383-93 | 9.9 | 24 |
| 232 | Transmyocardial Revascularization Enhances Bone Marrow Stem Cell Engraftment in Infarcted Hearts Through SCF-C-kit and SDF-1-CXCR4 Signaling Axes. <i>Stem Cell Reviews and Reports</i> , 2015 , 11, 332-48 | 6.4 | 8 |
| 231 | Uterine-derived progenitor cells are immunoprivileged and effectively improve cardiac regeneration when used for cell therapy. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 84, 116-28 | 5.8 | 6 |
| 230 | Canopy 2 attenuates the transition from compensatory hypertrophy to dilated heart failure in hypertrophic cardiomyopathy. <i>European Heart Journal</i> , 2015 , 36, 2530-40 | 9.5 | 29 |
| 229 | Hydrogels with integrin-binding angiopoietin-1-derived peptide, QHREDGS, for treatment of acute myocardial infarction. <i>Circulation: Heart Failure</i> , 2015 , 8, 333-41 | 7.6 | 29 |
| 228 | Functional variant in methionine synthase reductase intron-1 is associated with pleiotropic congenital malformations. <i>Molecular and Cellular Biochemistry</i> , 2015 , 407, 51-6 | 4.2 | 7 |
| 227 | Pressure Overload-Induced Cardiac Dysfunction in Aged Male Adiponectin Knockout Mice Is Associated With Autophagy Deficiency. <i>Endocrinology</i> , 2015 , 156, 2667-77 | 4.8 | 21 |
| 226 | A Conductive Polymer Hydrogel Supports Cell Electrical Signaling and Improves Cardiac Function After Implantation into Myocardial Infarct. <i>Circulation</i> , 2015 , 132, 772-84 | 16.7 | 150 |
| 225 | Uterine-derived stem cells reconstitute the bone marrow of irradiated mice. <i>Stem Cells and Development</i> , 2015 , 24, 938-47 | 4.4 | 3 |
| 224 | Fate of modular cardiac tissue constructs in a syngeneic rat model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 1247-58 | 4.4 | 7 |
| 223 | Modulation of Alloimmune Responses by Interleukin-10 Prevents Rejection of Implanted Allogeneic Smooth Muscle Cells and Restores Postinfarction Ventricular Function. <i>Cell Transplantation</i> , 2015 , 24, 1013-29 | 4 | 3 |
| 222 | Cardioprotective Signature of Short-Term Caloric Restriction. <i>PLoS ONE</i> , 2015 , 10, e0130658 | 3.7 | 43 |
| 221 | The cardiac repair benefits of inflammation do not persist: evidence from mast cell implantation. <i>Journal of Cellular and Molecular Medicine</i> , 2015 , 19, 2751-62 | 5.6 | 10 |
| 220 | HACE1-dependent protein degradation provides cardiac protection in response to haemodynamic stress. <i>Nature Communications</i> , 2014 , 5, 3430 | 17.4 | 24 |
| 219 | Generation of the epicardial lineage from human pluripotent stem cells. <i>Nature Biotechnology</i> , 2014 , 32, 1026-35 | 44.5 | 127 |

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| 218 | The effect of cyclic stretch on maturation and 3D tissue formation of human embryonic stem cell-derived cardiomyocytes. <i>Biomaterials</i> , 2014 , 35, 2798-808 | 15.6 | 177 |
| 217 | The promise and challenges of cardiac stem cell therapy. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2014 , 26, 44-52 | 1.7 | 14 |
| 216 | The use of MMP2 antibody-conjugated cationic microbubble to target the ischemic myocardium, enhance Timp3 gene transfection and improve cardiac function. <i>Biomaterials</i> , 2014 , 35, 1063-73 | 15.6 | 37 |
| 215 | Expression of CNPY2 in mouse tissues: quantification and localization. <i>PLoS ONE</i> , 2014 , 9, e111370 | 3.7 | 14 |
| 214 | Transforming the promise of pluripotent stem cell-derived cardiomyocytes to a therapy: challenges and solutions for clinical trials. <i>Canadian Journal of Cardiology</i> , 2014 , 30, 1335-49 | 3.8 | 23 |
| 213 | Reduced ischemic injury after stroke in mice by angiogenic gene delivery via ultrasound-targeted microbubble destruction. <i>Journal of Neuropathology and Experimental Neurology</i> , 2014 , 73, 548-58 | 3.1 | 25 |
| 212 | Decreased SIRT3 in aged human mesenchymal stromal/stem cells increases cellular susceptibility to oxidative stress. <i>Journal of Cellular and Molecular Medicine</i> , 2014 , 18, 2298-310 | 5.6 | 40 |
| 211 | The rejuvenation of aged stem cells for cardiac repair. <i>Canadian Journal of Cardiology</i> , 2014 , 30, 1299-306 | 3.8 | 14 |
| 210 | Role of miR-145 in cardiac myofibroblast differentiation. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 66, 94-105 | 5.8 | 69 |
| 209 | Synthesis of aliphatic polyester hydrogel for cardiac tissue engineering. <i>Methods in Molecular Biology</i> , 2014 , 1181, 51-9 | 1.4 | 3 |
| 208 | miR-17 targets tissue inhibitor of metalloproteinase 1 and 2 to modulate cardiac matrix remodeling. <i>FASEB Journal</i> , 2013 , 27, 4254-65 | 0.9 | 23 |
| 207 | Serum-free differentiation of functional human coronary-like vascular smooth muscle cells from embryonic stem cells. <i>Cardiovascular Research</i> , 2013 , 98, 125-35 | 9.9 | 30 |
| 206 | A glucagon-like peptide-1 analog reverses the molecular pathology and cardiac dysfunction of a mouse model of obesity. <i>Circulation</i> , 2013 , 127, 74-85 | 16.7 | 167 |
| 205 | Targeted blockade of interleukin-8 abrogates its promotion of cervical cancer growth and metastasis. <i>Molecular and Cellular Biochemistry</i> , 2013 , 375, 69-79 | 4.2 | 27 |
| 204 | Electrical coupling of isolated cardiomyocyte clusters grown on aligned conductive nanofibrous meshes for their synchronized beating. <i>Biomaterials</i> , 2013 , 34, 1063-72 | 15.6 | 194 |
| 203 | The use of cationic microbubbles to improve ultrasound-targeted gene delivery to the ischemic myocardium. <i>Biomaterials</i> , 2013 , 34, 2107-16 | 15.6 | 58 |
| 202 | Preserving prostaglandin E2 level prevents rejection of implanted allogeneic mesenchymal stem cells and restores postinfarction ventricular function. <i>Circulation</i> , 2013 , 128, S69-78 | 16.7 | 59 |
| 201 | Reconstitution of aged bone marrow with young cells repopulates cardiac-resident bone marrow-derived progenitor cells and prevents cardiac dysfunction after a myocardial infarction. <i>European Heart Journal</i> , 2013 , 34, 1157-67 | 9.5 | 36 |

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| 200 | APPL1 transgenic mice are protected from high-fat diet-induced cardiac dysfunction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 305, E795-804 | 6 | 30 |
| 199 | Interleukin-6 downregulation with mesenchymal stem cell differentiation results in loss of immunoprivilege. <i>Journal of Cellular and Molecular Medicine</i> , 2013 , 17, 1136-45 | 5.6 | 34 |
| 198 | Effects of storage solutions on the viability of human umbilical cord mesenchymal stem cells for transplantation. <i>Cell Transplantation</i> , 2013 , 22, 1075-86 | 4 | 18 |
| 197 | Optimizing Stem Cell Therapy for Cardiac Repair Following a Myocardial Infarction 2013 , 513-524 | | |
| 196 | Role of WNT/ β -catenin signaling in rejuvenating myogenic differentiation of aged mesenchymal stem cells from cardiac patients. <i>American Journal of Pathology</i> , 2012 , 181, 2067-78 | 5.8 | 31 |
| 195 | Stem cells and regenerative medicine - future perspectives. <i>Canadian Journal of Physiology and Pharmacology</i> , 2012 , 90, 327-35 | 2.4 | 53 |
| 194 | The challenges of stem cell therapy. <i>Canadian Journal of Physiology and Pharmacology</i> , 2012 , 90, 273-4 | 2.4 | 4 |
| 193 | Uterine cells are recruited to the infarcted heart and improve cardiac outcomes in female rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 1265-73 | 5.8 | 9 |
| 192 | Tissue inhibitor of matrix metalloproteinase-3 or vascular endothelial growth factor transfection of aged human mesenchymal stem cells enhances cell therapy after myocardial infarction. <i>Rejuvenation Research</i> , 2012 , 15, 495-506 | 2.6 | 25 |
| 191 | Elastin overexpression by cell-based gene therapy preserves matrix and prevents cardiac dilation. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 2429-39 | 5.6 | 27 |
| 190 | Culture of rat endometrial telocytes. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 1392-6 | 5.6 | 56 |
| 189 | Cell fusion contributes to the rescue of apoptotic cardiomyocytes by bone marrow cells. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 3085-95 | 5.6 | 19 |
| 188 | Diabetes influences cardiac extracellular matrix remodelling after myocardial infarction and subsequent development of cardiac dysfunction. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 2925-34 | 5.6 | 16 |
| 187 | Aged human cells rejuvenated by cytokine enhancement of biomaterials for surgical ventricular restoration. <i>Journal of the American College of Cardiology</i> , 2012 , 60, 2237-49 | 15.1 | 38 |
| 186 | Lack of microsomal prostaglandin E(2) synthase-1 in bone marrow-derived myeloid cells impairs left ventricular function and increases mortality after acute myocardial infarction. <i>Circulation</i> , 2012 , 125, 2904-13 | 16.7 | 19 |
| 185 | Neonatal transfer of membrane-bound stem cell factor improves survival and heart function in aged mice after myocardial ischemia. <i>Human Gene Therapy</i> , 2012 , 23, 1280-9 | 4.8 | 6 |
| 184 | Ex vivo Akt/HO-1 gene therapy to human endothelial progenitor cells enhances myocardial infarction recovery. <i>Cell Transplantation</i> , 2012 , 21, 1443-61 | 4 | 29 |
| 183 | Inhibiting matrix metalloproteinase by cell-based timp-3 gene transfer effectively treats acute and chronic ischemic cardiomyopathy. <i>Cell Transplantation</i> , 2012 , 21, 1039-53 | 4 | 17 |

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|-----|---|------|-----|
| 182 | Intracardiac injection of matrigel induces stem cell recruitment and improves cardiac functions in a rat myocardial infarction model. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 1310-8 | 5.6 | 47 |
| 181 | Polyethylenimine-mediated gene delivery into human bone marrow mesenchymal stem cells from patients. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 1989-98 | 5.6 | 48 |
| 180 | Defining conditions for covalent immobilization of angiogenic growth factors onto scaffolds for tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 69-84 | 4.4 | 65 |
| 179 | Two-photon microscopy of healthy, infarcted and stem-cell treated regenerating heart. <i>Journal of Biophotonics</i> , 2011 , 4, 297-304 | 3.1 | 15 |
| 178 | Infarct stabilization and cardiac repair with a VEGF-conjugated, injectable hydrogel. <i>Biomaterials</i> , 2011 , 32, 579-86 | 15.6 | 138 |
| 177 | Biodegradable collagen patch with covalently immobilized VEGF for myocardial repair. <i>Biomaterials</i> , 2011 , 32, 1280-90 | 15.6 | 192 |
| 176 | Repeated and targeted transfer of angiogenic plasmids into the infarcted rat heart via ultrasound targeted microbubble destruction enhances cardiac repair. <i>European Heart Journal</i> , 2011 , 32, 2075-84 | 9.5 | 95 |
| 175 | What's new in cardiac cell therapy? Allogeneic bone marrow stromal cells as "universal donor cells". <i>Journal of Cardiac Surgery</i> , 2010 , 25, 359-66 | 1.3 | 27 |
| 174 | Polarization birefringence measurements for characterizing the myocardium, including healthy, infarcted, and stem-cell-regenerated tissues. <i>Journal of Biomedical Optics</i> , 2010 , 15, 047009 | 3.5 | 62 |
| 173 | Design and development of a novel biostretch apparatus for tissue engineering. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 014503 | 2.1 | 8 |
| 172 | Hypoxic/normoxic preconditioning increases endothelial differentiation potential of human bone marrow CD133+ cells. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 1069-81 | 2.9 | 35 |
| 171 | Differentiation of allogeneic mesenchymal stem cells induces immunogenicity and limits their long-term benefits for myocardial repair. <i>Circulation</i> , 2010 , 122, 2419-29 | 16.7 | 272 |
| 170 | Hydrogels modified with QHREDGS peptide support cardiomyocyte survival in vitro and after sub-cutaneous implantation. <i>Soft Matter</i> , 2010 , 6, 5089 | 3.6 | 27 |
| 169 | The effect of age on the efficacy of human mesenchymal stem cell transplantation after a myocardial infarction. <i>Rejuvenation Research</i> , 2010 , 13, 429-38 | 2.6 | 108 |
| 168 | An adult uterine hemangioblast: evidence for extramedullary self-renewal and clonal bilineage potential. <i>Blood</i> , 2010 , 116, 2932-41 | 2.2 | 16 |
| 167 | Co-culture with cardiomyocytes enhanced the myogenic conversion of mesenchymal stromal cells in a dose-dependent manner. <i>Molecular and Cellular Biochemistry</i> , 2010 , 339, 89-98 | 4.2 | 35 |
| 166 | Aging impairs the angiogenic response to ischemic injury and the activity of implanted cells: combined consequences for cell therapy in older recipients. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010 , 139, 1286-94, 1294.e1-2 | 1.5 | 72 |
| 165 | Challenges in allogeneic mesenchymal stem cell-mediated cardiac repair. <i>Trends in Cardiovascular Medicine</i> , 2010 , 20, 263-8 | 6.9 | 15 |

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|-----|--|------|-----|
| 164 | Localized SDF-1alpha gene release mediated by collagen substrate induces CD117 stem cells homing. <i>Journal of Cellular and Molecular Medicine</i> , 2010 , 14, 392-402 | 5.6 | 23 |
| 163 | Surgical ventricular restoration with a cell- and cytokine-seeded biodegradable scaffold. <i>Biomaterials</i> , 2010 , 31, 7684-94 | 15.6 | 45 |
| 162 | POU homeodomain protein Oct-1 functions as a sensor for cyclic AMP. <i>Journal of Biological Chemistry</i> , 2009 , 284, 26456-65 | 5.4 | 30 |
| 161 | Polarized light based birefringence measurements for monitoring myocardial regeneration 2009 , | | 4 |
| 160 | Improvement in cardiac function after bone marrow cell therapy is associated with an increase in myocardial inflammation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H43-50 | 5.2 | 35 |
| 159 | Cell-based gene therapy modifies matrix remodeling after a myocardial infarction in tissue inhibitor of matrix metalloproteinase-3-deficient mice. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009 , 137, 471-80 | 1.5 | 22 |
| 158 | Tracking cardiac engraftment and distribution of implanted bone marrow cells: Comparing intra-aortic, intravenous, and intramyocardial delivery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009 , 137, 1225-33.e1 | 1.5 | 83 |
| 157 | Intracardiac injection of erythropoietin induces stem cell recruitment and improves cardiac functions in a rat myocardial infarction model. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 664-79 | 5.6 | 55 |
| 156 | Mueller matrix decomposition for polarized light assessment of biological tissues. <i>Journal of Biophotonics</i> , 2009 , 2, 145-56 | 3.1 | 117 |
| 155 | c-Kit function is necessary for in vitro myogenic differentiation of bone marrow hematopoietic cells. <i>Stem Cells</i> , 2009 , 27, 1911-20 | 5.8 | 27 |
| 154 | Is the intravascular administration of mesenchymal stem cells safe? Mesenchymal stem cells and intravital microscopy. <i>Microvascular Research</i> , 2009 , 77, 370-6 | 3.7 | 235 |
| 153 | Ultrasound-targeted gene delivery induces angiogenesis after a myocardial infarction in mice. <i>JACC: Cardiovascular Imaging</i> , 2009 , 2, 869-79 | 8.4 | 96 |
| 152 | Stem cells for cardiac regeneration by cell therapy and myocardial tissue engineering. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2009 , 114, 107-28 | 1.7 | 5 |
| 151 | Turbid polarimetry for tissue characterization 2009 , | | 1 |
| 150 | A transformed cell population derived from cultured mesenchymal stem cells has no functional effect after transplantation into the injured heart. <i>Cell Transplantation</i> , 2009 , 18, 319-31 | 4 | 76 |
| 149 | Tissue Engineering Applications for Cardiovascular Substitutes 2009 , | | 1 |
| 148 | Mesenchymal stem cells engineered to overexpress stem cell factor improve cardiac function but have malignant potential. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008 , 136, 1388-9 | 1.5 | 19 |
| 147 | The MRL mouse heart does not recover ventricular function after a myocardial infarction. <i>Cardiovascular Pathology</i> , 2008 , 17, 32-9 | 3.8 | 13 |

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|-----|---|------|-----|
| 146 | Surface immobilisation and properties of smooth muscle cells monitored by on-line acoustic wave detector. <i>Analyst, The</i> , 2008 , 133, 85-92 | 5 | 17 |
| 145 | Preservation of heart function in diabetic rats by the combined effects of muscle cell implantation and insulin therapy. <i>European Journal of Heart Failure</i> , 2008 , 10, 14-21 | 12.3 | 4 |
| 144 | Human angiogenic cell precursors restore function in the infarcted rat heart: a comparison of cell delivery routes. <i>European Journal of Heart Failure</i> , 2008 , 10, 525-33 | 12.3 | 12 |
| 143 | Skeletal myoblasts preserve remote matrix architecture and global function when implanted early or late after coronary ligation into infarcted or remote myocardium. <i>Circulation</i> , 2008 , 118, S130-7 | 16.7 | 50 |
| 142 | Microsomal prostaglandin E2 synthase-1 deletion leads to adverse left ventricular remodeling after myocardial infarction. <i>Circulation</i> , 2008 , 117, 1701-10 | 16.7 | 76 |
| 141 | Bone Marrow Stem Cells: Properties and Pluripotency 2008 , 268-283 | | 2 |
| 140 | Activation of c-kit is necessary for mobilization of reparative bone marrow progenitor cells in response to cardiac injury. <i>FASEB Journal</i> , 2008 , 22, 930-40 | 0.9 | 55 |
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