Ren-Ke Li

List of Publications by Citations

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	A self-fulfilling prophecy: C-reactive protein attenuates nitric oxide production and inhibits angiogenesis. *Circulation*, **2002**, 106, 913-9	16.7	821
288	Resistin promotes endothelial cell activation: further evidence of adipokine-endothelial interaction. *Circulation*, **2003**, 108, 736-40	16.7	536
287	Endothelin antagonism and interleukin-6 inhibition attenuate the proatherogenic effects of C-reactive protein. *Circulation*, **2002**, 105, 1890-6	16.7	507
286	C-reactive protein upregulates angiotensin type 1 receptors in vascular smooth muscle. *Circulation*, **2003**, 107, 1783-90	16.7	433
285	Cardioprotective c-kit+ cells are from the bone marrow and regulate the myocardial balance of angiogenic cytokines. *Journal of Clinical Investigation*, **2006**, 116, 1865-77	15.9	418
284	Bcl-2 engineered MSCs inhibited apoptosis and improved heart function. *Stem Cells*, **2007**, 25, 2118-27	5.8	376
283	Cardiomyocyte transplantation improves heart function. *Annals of Thoracic Surgery*, **1996**, 62, 654-60; discussion 660-1	2.7	315
282	Improved heart function with myogenesis and angiogenesis after autologous porcine bone marrow stromal cell transplantation. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 1132-40	1.5	300
281	Fundamentals of reperfusion injury for the clinical cardiologist. *Circulation*, **2002**, 105, 2332-6	16.7	297
280	Differentiation of allogeneic mesenchymal stem cells induces immunogenicity and limits their long-term benefits for myocardial repair. *Circulation*, **2010**, 122, 2419-29	16.7	272
279	Is the intravascular administration of mesenchymal stem cells safe? Mesenchymal stem cells and intravital microscopy. *Microvascular Research*, **2009**, 77, 370-6	3.7	235
278	Flexible shape-memory scaffold for minimally invasive delivery of functional tissues. *Nature Materials*, **2017**, 16, 1038-1046	27	217
277	A Circular RNA Binds To and Activates AKT Phosphorylation and Nuclear Localization Reducing Apoptosis and Enhancing Cardiac Repair. *Theranostics*, **2017**, 7, 3842-3855	12.1	206
276	Electrical coupling of isolated cardiomyocyte clusters grown on aligned conductive nanofibrous meshes for their synchronized beating. *Biomaterials*, **2013**, 34, 1063-72	15.6	194
275	Biodegradable collagen patch with covalently immobilized VEGF for myocardial repair. *Biomaterials* , **2011**, 32, 1280-90	15.6	192
274	Smooth muscle cell transplantation into myocardial scar tissue improves heart function. *Journal of Molecular and Cellular Cardiology*, **1999**, 31, 513-22	5.8	192
273	Construction of a bioengineered cardiac graft. *Journal of Thoracic and Cardiovascular Surgery*, **2000**, 119, 368-75	1.5	183

272	The effect of cyclic stretch on maturation and 3D tissue formation of human embryonic stem cell-derived cardiomyocytes. *Biomaterials*, **2014**, 35, 2798-808	15.6	177
271	A glucagon-like peptide-1 analog reverses the molecular pathology and cardiac dysfunction of a mouse model of obesity. *Circulation*, **2013**, 127, 74-85	16.7	167
270	Overexpression of transforming growth factor-beta1 and insulin-like growth factor-I in patients with idiopathic hypertrophic cardiomyopathy. *Circulation*, **1997**, 96, 874-81	16.7	156
269	A Conductive Polymer Hydrogel Supports Cell Electrical Signaling and Improves Cardiac Function After Implantation into Myocardial Infarct. *Circulation*, **2015**, 132, 772-84	16.7	150
268	Infarct stabilization and cardiac repair with a VEGF-conjugated, injectable hydrogel. *Biomaterials*, **2011**, 32, 579-86	15.6	138
267	Mechanical stretch regimen enhances the formation of bioengineered autologous cardiac muscle grafts. *Circulation*, **2002**, 106, I137-42	16.7	134
266	Autologous porcine heart cell transplantation improved heart function after a myocardial infarction. *Journal of Thoracic and Cardiovascular Surgery*, **2000**, 119, 62-8	1.5	133
265	Rosiglitazone facilitates angiogenic progenitor cell differentiation toward endothelial lineage: a new paradigm in glitazone pleiotropy. *Circulation*, **2004**, 109, 1392-400	16.7	130
264	TIMP-3 deficiency leads to dilated cardiomyopathy. *Circulation*, **2004**, 110, 2401-9	16.7	129
263	Human Embryonic Stem Cell-Derived Cardiomyocytes Regenerate the Infarcted Pig Heart but Induce Ventricular Tachyarrhythmias. *Stem Cell Reports*, **2019**, 12, 967-981	8	127
262	Generation of the epicardial lineage from human pluripotent stem cells. *Nature Biotechnology*, **2014**, 32, 1026-35	44.5	127
261	Fetal cell transplantation: a comparison of three cell types. *Journal of Thoracic and Cardiovascular Surgery*, **1999**, 118, 715-24	1.5	121
260	Optimal time for cardiomyocyte transplantation to maximize myocardial function after left ventricular injury. *Annals of Thoracic Surgery*, **2001**, 72, 1957-63	2.7	118
259	Mueller matrix decomposition for polarized light assessment of biological tissues. *Journal of Biophotonics*, **2009**, 2, 145-56	3.1	117
258	Intravenously Administered Bone Marrow Cells Migrate to Damaged Brain Tissue and Improve Neural Function in Ischemic Rats. *Cell Transplantation*, **2007**, 16, 993-1005	4	114
257	Increasing donor age adversely impacts beneficial effects of bone marrow but not smooth muscle myocardial cell therapy. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 289, H2089-96	5.2	113
256	The effect of age on the efficacy of human mesenchymal stem cell transplantation after a myocardial infarction. *Rejuvenation Research*, **2010**, 13, 429-38	2.6	108
255	The cytoprotective effect of Trolox demonstrated with three types of human cells. *Biochemistry and Cell Biology*, **1990**, 68, 1189-94	3.6	107

254	Cardiac remodeling and failure From molecules to man (Part II). *Cardiovascular Pathology*, **2005**, 14, 49-60	3.8	101
253	The fate of a tissue-engineered cardiac graft in the right ventricular outflow tract of the rat. *Journal of Thoracic and Cardiovascular Surgery*, **2001**, 121, 932-42	1.5	101
252	In vivo survival and function of transplanted rat cardiomyocytes. *Circulation Research*, **1996**, 78, 283-8	15.7	100
251	Cell transplantation improves ventricular function after a myocardial infarction: a preclinical study of human unrestricted somatic stem cells in a porcine model. *Circulation*, **2005**, 112, I96-104	16.7	99
250	Ultrasound-targeted gene delivery induces angiogenesis after a myocardial infarction in mice. *JACC: Cardiovascular Imaging*, **2009**, 2, 869-79	8.4	96
249	Repeated and targeted transfer of angiogenic plasmids into the infarcted rat heart via ultrasound targeted microbubble destruction enhances cardiac repair. *European Heart Journal*, **2011**, 32, 2075-84	9.5	95
248	Cardiac remodeling and failure: from molecules to man (Part I). *Cardiovascular Pathology*, **2005**, 14, 1-11	3.8	90
247	Enhanced myocardial angiogenesis by gene transfer with transplanted cells. *Circulation*, **2001**, 104, I218-22	16.7	90
246	Myocardial salvage with trolox and ascorbic acid for an acute evolving infarction. *Annals of Thoracic Surgery*, **1989**, 47, 553-7	2.7	90
245	Polypyrrole-chitosan conductive biomaterial synchronizes cardiomyocyte contraction and improves myocardial electrical impulse propagation. *Theranostics*, **2018**, 8, 2752-2764	12.1	87
244	Altered expression of disintegrin metalloproteinases and their inhibitor in human dilated cardiomyopathy. *Circulation*, **2006**, 113, 238-45	16.7	86
243	Tracking cardiac engraftment and distribution of implanted bone marrow cells: Comparing intra-aortic, intravenous, and intramyocardial delivery. *Journal of Thoracic and Cardiovascular Surgery*, **2009**, 137, 1225-33.e1	1.5	83
242	Direct effects of leptin on size and extracellular matrix components of human pediatric ventricular myocytes. *Cardiovascular Research*, **2006**, 69, 716-25	9.9	83
241	Autologous heart cell transplantation improves cardiac function after myocardial injury. *Annals of Thoracic Surgery*, **1999**, 68, 2074-80; discussion 2080-1	2.7	83
240	Matrix remodeling in experimental and human heart failure: a possible regulatory role for TIMP-3. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 284, H626-34	5.2	81
239	Leptin increases cardiomyocyte hyperplasia via extracellular signal-regulated kinase- and phosphatidylinositol 3-kinase-dependent signaling pathways. *Endocrinology*, **2004**, 145, 1550-5	4.8	81
238	Autologous smooth muscle cell transplantation improved heart function in dilated cardiomyopathy. *Annals of Thoracic Surgery*, **2000**, 70, 859-65	2.7	81
237	A transformed cell population derived from cultured mesenchymal stem cells has no functional effect after transplantation into the injured heart. *Cell Transplantation*, **2009**, 18, 319-31	4	76

236	Microsomal prostaglandin E2 synthase-1 deletion leads to adverse left ventricular remodeling after myocardial infarction. *Circulation*, **2008**, 117, 1701-10	16.7	76
235	Histologic changes of nonbiodegradable and biodegradable biomaterials used to repair right ventricular heart defects in rats. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 124, 1157-64	1.5	74
234	Phenotypic switching of vascular smooth muscle cells in the normal region of aorta from atherosclerosis patients is regulated by miR-145. *Journal of Cellular and Molecular Medicine*, **2016**, 20, 1049-61	5.6	74
233	C-reactive protein activates the nuclear factor-kappaB signal transduction pathway in saphenous vein endothelial cells: implications for atherosclerosis and restenosis. *Journal of Thoracic and Cardiovascular Surgery*, **2003**, 126, 1886-91	1.5	73
232	Effect of oxygen tension and cardiovascular operations on the myocardial antioxidant enzyme activities in patients with tetralogy of Fallot and aorta-coronary bypass. *Journal of Thoracic and Cardiovascular Surgery*, **1992**, 104, 159-164	1.5	73
231	Aging impairs the angiogenic response to ischemic injury and the activity of implanted cells: combined consequences for cell therapy in older recipients. *Journal of Thoracic and Cardiovascular Surgery*, **2010**, 139, 1286-94, 1294.e1-2	1.5	72
230	Cell transplantation preserves cardiac function after infarction by infarct stabilization: augmentation by stem cell factor. *Journal of Thoracic and Cardiovascular Surgery*, **2005**, 130, 1310	1.5	72
229	Role of miR-145 in cardiac myofibroblast differentiation. *Journal of Molecular and Cellular Cardiology*, **2014**, 66, 94-105	5.8	69
228	Angiogenesis by endothelial cell transplantation. *Journal of Thoracic and Cardiovascular Surgery*, **2001**, 122, 963-71	1.5	67
227	Stem cell factor deficiency is vasculoprotective: unraveling a new therapeutic potential of imatinib mesylate. *Circulation Research*, **2006**, 99, 617-25	15.7	66
226	C-reactive protein upregulates complement-inhibitory factors in endothelial cells. *Circulation*, **2004**, 109, 833-6	16.7	66
225	Defining conditions for covalent immobilization of angiogenic growth factors onto scaffolds for tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, 69-84	4.4	65
224	Increasing transplanted cell survival with cell-based angiogenic gene therapy. *Annals of Thoracic Surgery*, **2005**, 80, 1779-86	2.7	63
223	Polarization birefringence measurements for characterizing the myocardium, including healthy, infarcted, and stem-cell-regenerated tissues. *Journal of Biomedical Optics*, **2010**, 15, 047009	3.5	62
222	Optimal biomaterial for creation of autologous cardiac grafts. *Circulation*, **2002**, 106, I176-82	16.7	62
221	Beneficial effect of autologous cell transplantation on infarcted heart function: comparison between bone marrow stromal cells and heart cells. *Annals of Thoracic Surgery*, **2003**, 75, 169-76; discussion 176-7	2.7	60
220	Quantitative analysis of survival of transplanted smooth muscle cells with real-time polymerase chain reaction. *Journal of Thoracic and Cardiovascular Surgery*, **2005**, 129, 904-11	1.5	60
219	Autologous Transplantation of Bone Marrow Cells Improves Damaged Heart Function. *Circulation*, **1999**, 100,	16.7	60

218	Preserving prostaglandin E2 level prevents rejection of implanted allogeneic mesenchymal stem cells and restores postinfarction ventricular function. *Circulation*, **2013**, 128, S69-78	16.7	59
217	Enhanced thoracic gene delivery by magnetic nanobead-mediated vector. *Journal of Gene Medicine*, **2008**, 10, 897-909	3.5	59
216	Improved left ventricular aneurysm repair with bioengineered vascular smooth muscle grafts. *Circulation*, **2003**, 108 Suppl 1, II219-25	16.7	59
215	The use of cationic microbubbles to improve ultrasound-targeted gene delivery to the ischemic myocardium. *Biomaterials*, **2013**, 34, 2107-16	15.6	58
214	Application of Biomaterials in Cardiac Repair and Regeneration. *Engineering*, **2016**, 2, 141-148	9.7	57
213	c-kit dysfunction impairs myocardial healing after infarction. *Circulation*, **2007**, 116, I77-82	16.7	57
212	Hyperglycemia exaggerates ischemia-reperfusion-induced cardiomyocyte injury: reversal with endothelin antagonism. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 1120-4	1.5	57
211	Maximizing ventricular function with multimodal cell-based gene therapy. *Circulation*, **2005**, 112, I123-8	16.7	57
210	Targeted myocardial delivery of GDF11 gene rejuvenates the aged mouse heart and enhances myocardial regeneration after ischemia-reperfusion injury. *Basic Research in Cardiology*, **2017**, 112, 7	11.8	56
209	Culture of rat endometrial telocytes. *Journal of Cellular and Molecular Medicine*, **2012**, 16, 1392-6	5.6	56
208	Intracardiac injection of erythropoietin induces stem cell recruitment and improves cardiac functions in a rat myocardial infarction model. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 664-79	5.6	55
207	Activation of c-kit is necessary for mobilization of reparative bone marrow progenitor cells in response to cardiac injury. *FASEB Journal*, **2008**, 22, 930-40	0.9	55
206	Insulin stimulates pyruvate dehydrogenase and protects human ventricular cardiomyocytes from simulated ischemia. *Journal of Thoracic and Cardiovascular Surgery*, **1998**, 116, 485-94	1.5	54
205	Stem cells and regenerative medicine - future perspectives. *Canadian Journal of Physiology and Pharmacology*, **2012**, 90, 327-35	2.4	53
204	Cell transplantation to prevent heart failure: a comparison of cell types. *Annals of Thoracic Surgery*, **2003**, 76, 2062-70; discussion 2070	2.7	52
203	Skeletal myoblasts preserve remote matrix architecture and global function when implanted early or late after coronary ligation into infarcted or remote myocardium. *Circulation*, **2008**, 118, S130-7	16.7	50
202	TIMP-3 deficiency accelerates cardiac remodeling after myocardial infarction. *Journal of Molecular and Cellular Cardiology*, **2007**, 43, 733-43	5.8	50
201	Human pediatric and adult ventricular cardiomyocytes in culture: assessment of phenotypic changes with passaging. *Cardiovascular Research*, **1996**, 32, 362-73	9.9	50

200	VEGF-loaded microsphere patch for local protein delivery to the ischemic heart. *Acta Biomaterialia*, **2016**, 45, 169-181	10.8	48
199	Polyethylenimine-mediated gene delivery into human bone marrow mesenchymal stem cells from patients. *Journal of Cellular and Molecular Medicine*, **2011**, 15, 1989-98	5.6	48
198	Vascular endothelial growth factor transgene expression in cell-transplanted hearts. *Journal of Thoracic and Cardiovascular Surgery*, **2004**, 127, 1180-7	1.5	48
197	Intracardiac injection of matrigel induces stem cell recruitment and improves cardiac functions in a rat myocardial infarction model. *Journal of Cellular and Molecular Medicine*, **2011**, 15, 1310-8	5.6	47
196	Cell transplantation preserves matrix homeostasis: a novel paracrine mechanism. *Journal of Thoracic and Cardiovascular Surgery*, **2005**, 130, 1430-9	1.5	47
195	Elastin stabilizes an infarct and preserves ventricular function. *Circulation*, **2005**, 112, I81-8	16.7	46
194	Surgical ventricular restoration with a cell- and cytokine-seeded biodegradable scaffold. *Biomaterials*, **2010**, 31, 7684-94	15.6	45
193	Dedifferentiated human ventricular cardiac myocytes express inducible nitric oxide synthase mRNA but not protein in response to IL-1, TNF, IFNgamma, and LPS. *Journal of Molecular and Cellular Cardiology*, **1997**, 29, 1153-65	5.8	45
192	Stem cell factor attenuates vascular smooth muscle apoptosis and increases intimal hyperplasia after vascular injury. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 540-7	9.4	45
191	Hyperglycemia potentiates the proatherogenic effects of C-reactive protein: reversal with rosiglitazone. *Journal of Molecular and Cellular Cardiology*, **2003**, 35, 417-9	5.8	45
190	Mechanical Stretch Regimen Enhances the Formation of Bioengineered Autologous Cardiac Muscle Grafts. *Circulation*, **2002**, 106,	16.7	45
189	Novel cardioprotective effects of tetrahydrobiopterin after anoxia and reoxygenation: Identifying cellular targets for pharmacologic manipulation. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 1074-83	1.5	44
188	Cardioprotective Signature of Short-Term Caloric Restriction. *PLoS ONE*, **2015**, 10, e0130658	3.7	43
187	Human CMV immediate-early enhancer: a useful tool to enhance cell-type-specific expression from lentiviral vectors. *Journal of Gene Medicine*, **2008**, 10, 21-32	3.5	43
186	Genetic modification of embryonic stem cells with VEGF enhances cell survival and improves cardiac function. *Cloning and Stem Cells*, **2007**, 9, 549-63		43
185	Cellular senescence contributes to age-dependent changes in circulating extracellular vesicle cargo and function. *Aging Cell*, **2020**, 19, e13103	9.9	42
184	Enhanced IGF-1 expression improves smooth muscle cell engraftment after cell transplantation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H2840-9	5.2	42
183	Optimal Biomaterial for Creation of Autologous Cardiac Grafts. *Circulation*, **2002**, 106,	16.7	42

182	A self-doping conductive polymer hydrogel that can restore electrical impulse propagation at myocardial infarct to prevent cardiac arrhythmia and preserve ventricular function. *Biomaterials*, **2020**, 231, 119672	15.6	42
181	Decreased SIRT3 in aged human mesenchymal stromal/stem cells increases cellular susceptibility to oxidative stress. *Journal of Cellular and Molecular Medicine*, **2014**, 18, 2298-310	5.6	40
180	Progressive Aortic Dilation Is Regulated by miR-17-Associated miRNAs. *Journal of the American College of Cardiology*, **2016**, 67, 2965-77	15.1	38
179	Aged human cells rejuvenated by cytokine enhancement of biomaterials for surgical ventricular restoration. *Journal of the American College of Cardiology*, **2012**, 60, 2237-49	15.1	38
178	The use of MMP2 antibody-conjugated cationic microbubble to target the ischemic myocardium, enhance Timp3 gene transfection and improve cardiac function. *Biomaterials*, **2014**, 35, 1063-73	15.6	37
177	Enhanced angiogenesis with multimodal cell-based gene therapy. *Annals of Thoracic Surgery*, **2007**, 83, 1110-9	2.7	37
176	Overexpression of elastin fragments in infarcted myocardium attenuates scar expansion and heart dysfunction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 288, H2819-27	5.2	37
175	Prolonged hypothermic cardiac storage with University of Wisconsin solution: An assessment with human cell cultures. *Journal of Thoracic and Cardiovascular Surgery*, **1991**, 102, 666-672	1.5	37
174	Survival and Function of Bioengineered Cardiac Grafts. *Circulation*, **1999**, 100,	16.7	37
173	Reconstitution of aged bone marrow with young cells repopulates cardiac-resident bone marrow-derived progenitor cells and prevents cardiac dysfunction after a myocardial infarction. *European Heart Journal*, **2013**, 34, 1157-67	9.5	36
172	Enhanced cell transplantation: preventing apoptosis increases cell survival and ventricular function. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H939-47	5.2	36
171	Hypoxic/normoxic preconditioning increases endothelial differentiation potential of human bone marrow CD133+ cells. *Tissue Engineering - Part C: Methods*, **2010**, 16, 1069-81	2.9	35
170	Improvement in cardiac function after bone marrow cell thearpy is associated with an increase in myocardial inflammation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H43-50	5.2	35
169	Co-culture with cardiomyocytes enhanced the myogenic conversion of mesenchymal stromal cells in a dose-dependent manner. *Molecular and Cellular Biochemistry*, **2010**, 339, 89-98	4.2	35
168	Interleukin-6 downregulation with mesenchymal stem cell differentiation results in loss of immunoprivilege. *Journal of Cellular and Molecular Medicine*, **2013**, 17, 1136-45	5.6	34
167	Preconditioning human cardiomyocytes and endothelial cells. *Journal of Thoracic and Cardiovascular Surgery*, **1998**, 115, 210-9	1.5	34
166	Increased endothelin-1 production in diabetic patients after cardioplegic arrest and reperfusion impairs coronary vascular reactivity: reversal by means of endothelin antagonism. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 1114-9	1.5	34
165	Recipient age determines the cardiac functional improvement achieved by skeletal myoblast transplantation. *Journal of the American College of Cardiology*, **2007**, 50, 1086-92	15.1	33

164	Regional overexpression of insulin-like growth factor-I and transforming growth factor-beta1 in the myocardium of patients with hypertrophic obstructive cardiomyopathy. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 89-95	1.5	32
163	Cardiac cell transplantation: closer to bedside. *Annals of Thoracic Surgery*, **2003**, 75, S674-7	2.7	32
162	Effect of vitamin E on human glutathione peroxidase (GSH-PX1) expression in cardiomyocytes. *Free Radical Biology and Medicine*, **1996**, 21, 419-26	7.8	32
161	Bioactive coating of decellularized vascular grafts with a temperature-sensitive VEGF-conjugated hydrogel accelerates autologous endothelialization in vivo. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e513-e522	4.4	31
160	Role of WNT/Ecatenin signaling in rejuvenating myogenic differentiation of aged mesenchymal stem cells from cardiac patients. *American Journal of Pathology*, **2012**, 181, 2067-78	5.8	31
159	Novel cardioprotective effects of pravastatin in human ventricular cardiomyocytes subjected to hypoxia and reoxygenation: beneficial effects of statins independent of endothelial cells. *Journal of Surgical Research*, **2004**, 119, 66-71	2.5	31
158	Suppression of miR-34a Expression in the Myocardium Protects Against Ischemia-Reperfusion Injury Through SIRT1 Protective Pathway. *Stem Cells and Development*, **2017**, 26, 1270-1282	4.4	30
157	Serum-free differentiation of functional human coronary-like vascular smooth muscle cells from embryonic stem cells. *Cardiovascular Research*, **2013**, 98, 125-35	9.9	30
156	APPL1 transgenic mice are protected from high-fat diet-induced cardiac dysfunction. *American Journal of Physiology - Endocrinology and Metabolism*, **2013**, 305, E795-804	6	30
155	POU homeodomain protein Oct-1 functions as a sensor for cyclic AMP. *Journal of Biological Chemistry*, **2009**, 284, 26456-65	5.4	30
154	Cardiac remodeling and failure: from molecules to man (Part III). *Cardiovascular Pathology*, **2005**, 14, 109-18	3.9	30
153	Canopy 2 attenuates the transition from compensatory hypertrophy to dilated heart failure in hypertrophic cardiomyopathy. *European Heart Journal*, **2015**, 36, 2530-40	9.5	29
152	Hydrogels with integrin-binding angiopoietin-1-derived peptide, QHREDGS, for treatment of acute myocardial infarction. *Circulation: Heart Failure*, **2015**, 8, 333-41	7.6	29
151	Ex vivo Akt/HO-1 gene therapy to human endothelial progenitor cells enhances myocardial infarction recovery. *Cell Transplantation*, **2012**, 21, 1443-61	4	29
150	Tissue-Engineered Grafts Matured in the Right Ventricular Outflow Tract. *Cell Transplantation*, **2004**, 13, 169-177	4	29
149	The IMPACT-CABG trial: A multicenter, randomized clinical trial of CD133 stem cell therapy during coronary artery bypass grafting for ischemic cardiomyopathy. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 152, 1582-1588.e2	1.5	29
148	A conductive cell-delivery construct as a bioengineered patch that can improve electrical propagation and synchronize cardiomyocyte contraction for heart repair. *Journal of Controlled Release*, **2020**, 320, 73-82	11.7	28
147	Transplantation of cryopreserved muscle cells in dilated cardiomyopathy: effects on left ventricular geometry and function. *Journal of Thoracic and Cardiovascular Surgery*, **2003**, 126, 1537-48	1.5	28

146	Mast cells promote proliferation and migration and inhibit differentiation of mesenchymal stem cells through PDGF. *Journal of Molecular and Cellular Cardiology*, **2016**, 94, 32-42	5.8	27
145	Targeted blockade of interleukin-8 abrogates its promotion of cervical cancer growth and metastasis. *Molecular and Cellular Biochemistry*, **2013**, 375, 69-79	4.2	27
144	Elastin overexpression by cell-based gene therapy preserves matrix and prevents cardiac dilation. *Journal of Cellular and Molecular Medicine*, **2012**, 16, 2429-39	5.6	27
143	What's new in cardiac cell therapy? Allogeneic bone marrow stromal cells as "universal donor cells". *Journal of Cardiac Surgery*, **2010**, 25, 359-66	1.3	27
142	Hydrogels modified with QHREDGS peptide support cardiomyocyte survival in vitro and after sub-cutaneous implantation. *Soft Matter*, **2010**, 6, 5089	3.6	27
141	c-Kit function is necessary for in vitro myogenic differentiation of bone marrow hematopoietic cells. *Stem Cells*, **2009**, 27, 1911-20	5.8	27
140	Current status of cellular therapy for ischemic heart disease. *Annals of Thoracic Surgery*, **2005**, 79, S2238-47	2.7	27
139	Transplantation of cryopreserved cardiomyocytes. *Journal of Thoracic and Cardiovascular Surgery*, **2001**, 121, 98-107	1.5	27
138	c-Jun N-terminal kinase-mediated stabilization of microsomal prostaglandin E2 synthase-1 mRNA regulates delayed microsomal prostaglandin E2 synthase-1 expression and prostaglandin E2 biosynthesis by cardiomyocytes. *Journal of Biological Chemistry*, **2006**, 281, 16443-52	5.4	26
137	Transplanted microvessels improve pluripotent stem cell-derived cardiomyocyte engraftment and cardiac function after infarction in rats. *Science Translational Medicine*, **2020**, 12,	17.5	26
136	Reduced ischemic injury after stroke in mice by angiogenic gene delivery via ultrasound-targeted microbubble destruction. *Journal of Neuropathology and Experimental Neurology*, **2014**, 73, 548-58	3.1	25
135	Tissue inhibitor of matrix metalloproteinase-3 or vascular endothelial growth factor transfection of aged human mesenchymal stem cells enhances cell therapy after myocardial infarction. *Rejuvenation Research*, **2012**, 15, 495-506	2.6	25
134	Vitamin E and oxidative stress in the heart of the cardiomyopathic syrian hamster. *Free Radical Biology and Medicine*, **1998**, 24, 252-8	7.8	25
133	Bio-stretch, a computerized cell strain apparatus for three-dimensional organotypic cultures. *In Vitro Cellular and Developmental Biology - Animal*, **1999**, 35, 87-93	2.6	25
132	A secreted protein (Canopy 2, CNPY2) enhances angiogenesis and promotes smooth muscle cell migration and proliferation. *Cardiovascular Research*, **2015**, 105, 383-93	9.9	24
131	Emerging roles of extracellular vesicles in cardiac repair and rejuvenation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H733-H744	5.2	24
130	HACE1-dependent protein degradation provides cardiac protection in response to haemodynamic stress. *Nature Communications*, **2014**, 5, 3430	17.4	24
129	miR-17 targets tissue inhibitor of metalloproteinase 1 and 2 to modulate cardiac matrix remodeling. *FASEB Journal*, **2013**, 27, 4254-65	0.9	23

128	Transforming the promise of pluripotent stem cell-derived cardiomyocytes to a therapy: challenges and solutions for clinical trials. *Canadian Journal of Cardiology*, **2014**, 30, 1335-49	3.8	23
127	Localized SDF-1alpha gene release mediated by collagen substrate induces CD117 stem cells homing. *Journal of Cellular and Molecular Medicine*, **2010**, 14, 392-402	5.6	23
126	Preservation of conductive propagation after surgical repair of cardiac defects with a bio-engineered conductive patch. *Journal of Heart and Lung Transplantation*, **2018**, 37, 912-924	5.8	22
125	Decreasing CNPY2 Expression Diminishes Colorectal Tumor Growth and Development through Activation of p53 Pathway. *American Journal of Pathology*, **2016**, 186, 1015-24	5.8	22
124	Cell-based gene therapy modifies matrix remodeling after a myocardial infarction in tissue inhibitor of matrix metalloproteinase-3-deficient mice. *Journal of Thoracic and Cardiovascular Surgery*, **2009**, 137, 471-80	1.5	22
123	Combined transmyocardial revascularization and cell-based angiogenic gene therapy increases transplanted cell survival. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H3311-6	5.2	22
122	Cell transplantation to improve ventricular function in the failing heart. *European Journal of Cardio-thoracic Surgery*, **2003**, 23, 907-16	3	22
121	Young Bone-Marrow Sca-1 Stem Cells Rejuvenate the Aged Heart and Improve Function after Injury through PDGFR□Akt pathway. *Scientific Reports*, **2017**, 7, 41756	4.9	21
120	Pressure Overload-Induced Cardiac Dysfunction in Aged Male Adiponectin Knockout Mice Is Associated With Autophagy Deficiency. *Endocrinology*, **2015**, 156, 2667-77	4.8	21
119	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. *FASEB Journal*, **2016**, 30, 3069-82	0.9	21
118	The characterization and purification of a human transcription factor modulating the glutathione peroxidase gene in response to oxygen tension. *Molecular and Cellular Biochemistry*, **2002**, 229, 73-83	4.2	21
117	Method of culturing cardiomyocytes from human pediatric ventricular myocardium. *Cytotechnology* , **1992**, 14, 93-100		21
116	Effects of cell-based angiogenic gene therapy at 6 months: persistent angiogenesis and absence of oncogenicity. *Annals of Thoracic Surgery*, **2007**, 83, 640-6	2.7	20
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