

Shigeru Miyagawa

List of Publications by Year in descending order

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Version: 2024-02-01

358
papers

8,631
citations

53660

45
h-index

69108

77
g-index

371
all docs

371
docs citations

371
times ranked

8938
citing authors

#	ARTICLE	IF	CITATIONS
1	Feasibility, Safety, and Therapeutic Efficacy of Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Sheets in a Porcine Ischemic Cardiomyopathy Model. <i>Circulation</i> , 2012, 126, S29-37.	1.6	421
2	Repair of impaired myocardium by means of implantation of engineered autologous myoblast sheets. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2005, 130, 1333-1341.	0.4	317
3	Tissue engineered myoblast sheets improved cardiac function sufficiently to discontinue LVAS in a patient with DCM: report of a case. <i>Surgery Today</i> , 2012, 42, 181-184.	0.7	298
4	Tissue Cardiomyoplasty Using Bioengineered Contractile Cardiomyocyte Sheets to Repair Damaged Myocardium: Their Integration with Recipient Myocardium. <i>Transplantation</i> , 2005, 80, 1586-1595.	0.5	191
5	Enhanced Survival of Transplanted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes by the Combination of Cell Sheets With the Pedicled Omental Flap Technique in a Porcine Heart. <i>Circulation</i> , 2013, 128, S87-94.	1.6	175
6	Interleukin-6/interleukin-21 signaling axis is critical in the pathogenesis of pulmonary arterial hypertension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2677-86.	3.3	174
7	Myocardial Regeneration Therapy for Heart Failure. <i>Circulation</i> , 2002, 105, 2556-2561.	1.6	163
8	Longer preservation of cardiac performance by sheet-shaped myoblast implantation in dilated cardiomyopathic hamsters. <i>Cardiovascular Research</i> , 2006, 69, 466-475.	1.8	162
9	Grafted skeletal myoblast sheets attenuate myocardial remodeling in pacing-induced canine heart failure model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2006, 132, 918-924.	0.4	150
10	Safety and Efficacy of Autologous Skeletal Myoblast Sheets (TCD-51073) for the Treatment of Severe Chronic Heart Failure Due to Ischemic Heart Disease. <i>Circulation Journal</i> , 2015, 79, 991-999.	0.7	144
11	Tissue- and Plasma-Specific MicroRNA Signatures for Atherosclerotic Abdominal Aortic Aneurysm. <i>Journal of the American Heart Association</i> , 2012, 1, e000745.	1.6	142
12	Phase I Clinical Trial of Autologous Stem Cell-Sheet Transplantation Therapy for Treating Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	142
13	Maturation of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes by Soluble Factors from Human Mesenchymal Stem Cells. <i>Molecular Therapy</i> , 2018, 26, 2681-2695.	3.7	135
14	Fibrosis in endstage human heart failure: Severe changes in collagen metabolism and MMP/TIMP profiles. <i>International Journal of Cardiology</i> , 2011, 151, 18-33.	0.8	125
15	Impaired Myocardium Regeneration With Skeletal Cell Sheets—A Preclinical Trial for Tissue-Engineered Regeneration Therapy. <i>Transplantation</i> , 2010, 90, 364-372.	0.5	118
16	Allogenic mesenchymal stem cell transplantation has a therapeutic effect in acute myocardial infarction in rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 662-671.	0.9	115
17	Cardiomyocytes Derived from MHC-Homozygous Induced Pluripotent Stem Cells Exhibit Reduced Allogeneic Immunogenicity in MHC-Matched Non-human Primates. <i>Stem Cell Reports</i> , 2016, 6, 312-320.	2.3	115
18	Human Pluripotent Stem Cell-Derived Cardiac Tissue-like Constructs for Repairing the Infarcted Myocardium. <i>Stem Cell Reports</i> , 2017, 9, 1546-1559.	2.3	107

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19	Development of vascularized iPSC derived 3D-cardiomyocyte tissues by filtration Layer-by-Layer technique and their application for pharmaceutical assays. <i>Acta Biomaterialia</i> , 2016, 33, 110-121.	4.1	106
20	Layered implantation of myoblast sheets attenuates adverse cardiac remodeling of the infarcted heart. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009, 138, 985-993.	0.4	93
21	Enhanced Therapeutic Effects of Human iPSC Cell Derived-Cardiomyocyte by Combined Cell-Sheets with Omental Flap Technique in Porcine Ischemic Cardiomyopathy Model. <i>Scientific Reports</i> , 2017, 7, 8824.	1.6	90
22	Development of <i>In Vitro</i> Drug-Induced Cardiotoxicity Assay by Using Three-Dimensional Cardiac Tissues Derived from Human Induced Pluripotent Stem Cells. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 56-67.	1.1	88
23	Adiponectin Stimulates Exosome Release to Enhance Mesenchymal Stem-Cell-Driven Therapy of Heart Failure in Mice. <i>Molecular Therapy</i> , 2020, 28, 2203-2219.	3.7	86
24	Transplantation of Human-induced Pluripotent Stem Cell-derived Cardiomyocytes Is Superior to Somatic Stem Cell Therapy for Restoring Cardiac Function and Oxygen Consumption in a Porcine Model of Myocardial Infarction. <i>Transplantation</i> , 2019, 103, 291-298.	0.5	78
25	Skeletal myoblast sheet transplantation improves the diastolic function of a pressure-overloaded right heart. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009, 138, 460-467.	0.4	77
26	Bioengineered Myocardium Derived from Induced Pluripotent Stem Cells Improves Cardiac Function and Attenuates Cardiac Remodeling Following Chronic Myocardial Infarction in Rats. <i>Stem Cells Translational Medicine</i> , 2012, 1, 430-437.	1.6	77
27	Predictor of Early Mortality for Severe Heart Failure Patients With Left Ventricular Assist Device Implantation. <i>Circulation Journal</i> , 2012, 76, 1631-1638.	0.7	75
28	Combined autologous cellular cardiomyoplasty with skeletal myoblasts and bone marrow cells in canine hearts for ischemic cardiomyopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2005, 130, 646-653.	0.4	74
29	Novel regenerative therapy using cell-sheet covered with omentum flap delivers a huge number of cells in a porcine myocardial infarction model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011, 142, 1188-1196.	0.4	69
30	Impact of Early Surgical Treatment on Postoperative Neurologic Outcome for Active Infective Endocarditis Complicated by Cerebral Infarction. <i>Annals of Thoracic Surgery</i> , 2012, 94, 489-496.	0.7	66
31	Pivotal Role of Non-cardiomyocytes in Electromechanical and Therapeutic Potential of Induced Pluripotent Stem Cell-Derived Engineered Cardiac Tissue. <i>Tissue Engineering - Part A</i> , 2018, 24, 287-300.	1.6	63
32	Cardiac fibrosis and cellular hypertrophy decrease the degree of reverse remodeling and improvement in cardiac function during left ventricular assist. <i>Journal of Heart and Lung Transplantation</i> , 2010, 29, 672-679.	0.3	61
33	Tissue-Engineered Cardiac Constructs for Cardiac Repair. <i>Annals of Thoracic Surgery</i> , 2011, 91, 320-329.	0.7	61
34	Cardiomyoblast-like Cells Differentiated from Human Adipose Tissue-Derived Mesenchymal Stem Cells Improve Left Ventricular Dysfunction and Survival in a Rat Myocardial Infarction Model. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 417-425.	1.1	60
35	Induced Adipocyte Cell-Sheet Ameliorates Cardiac Dysfunction in a Mouse Myocardial Infarction Model. <i>Circulation</i> , 2011, 124, S10-7.	1.6	59
36	Functional and Electrical Integration of Induced Pluripotent Stem Cell-Derived Cardiomyocytes in a Myocardial Infarction Rat Heart. <i>Cell Transplantation</i> , 2015, 24, 2479-2489.	1.2	58

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37	Biventricular support using implantable continuous-flow ventricular assist devices. <i>Journal of Heart and Lung Transplantation</i> , 2011, 30, 475-478.	0.3	56
38	Valve surgery in active endocarditis patients complicated by intracranial haemorrhage: the influence of the timing of surgery on neurological outcomes. <i>European Journal of Cardio-thoracic Surgery</i> , 2014, 45, 1082-1088.	0.6	54
39	Recovery of right heart function with temporary right ventricular assist using a centrifugal pump in patients with severe biventricular failure. <i>Journal of Heart and Lung Transplantation</i> , 2012, 31, 858-864.	0.3	52
40	Does Stringent Restrictive Annuloplasty for Functional Mitral Regurgitation Cause Functional Mitral Stenosis and Pulmonary Hypertension?. <i>Circulation</i> , 2011, 124, S97-106.	1.6	50
41	In Vivo Differentiation of Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Circulation Journal</i> , 2013, 77, 1297-1306.	0.7	50
42	Risk Factor Analysis of Long-Term Support With Left Ventricular Assist System. <i>Circulation Journal</i> , 2010, 74, 715-722.	0.7	49
43	Mycotic aneurysm of the infrarenal abdominal aorta infected by <i>Clostridium septicum</i> : A case report of surgical management and review of the literature. <i>Journal of Vascular Surgery</i> , 2003, 38, 847-851.	0.6	47
44	Impact of microRNA Expression in Human Atrial Tissue in Patients with Atrial Fibrillation Undergoing Cardiac Surgery. <i>PLoS ONE</i> , 2013, 8, e73397.	1.1	47
45	Myocardial regenerative therapy using a scaffold-free skeletal-muscle-derived cell sheet in patients with dilated cardiomyopathy even under a left ventricular assist device: a safety and feasibility study. <i>Surgery Today</i> , 2018, 48, 200-210.	0.7	47
46	Excitation propagation in three-dimensional engineered hearts using decellularized extracellular matrix. <i>Biomaterials</i> , 2014, 35, 7839-7850.	5.7	46
47	Present and Future Perspectives on Cell Sheet-Based Myocardial Regeneration Therapy. <i>BioMed Research International</i> , 2013, 2013, 1-6.	0.9	44
48	Immunologic targeting of CD30 eliminates tumourigenic human pluripotent stem cells, allowing safer clinical application of hiPSC-based cell therapy. <i>Scientific Reports</i> , 2018, 8, 3726.	1.6	44
49	Advanced left-atrial fibrosis is associated with unsuccessful maze operation for valvular atrial fibrillation. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 40, 61-69.	0.6	43
50	Spatially Oriented, Temporally Sequential Smooth Muscle Cell-Endothelial Progenitor Cell Bi-Level Cell Sheet Neovascularizes Ischemic Myocardium. <i>Circulation</i> , 2013, 128, S59-68.	1.6	43
51	Cell-sheet Therapy With Omentopexy Promotes Arteriogenesis and Improves Coronary Circulation Physiology in Failing Heart. <i>Molecular Therapy</i> , 2015, 23, 374-386.	3.7	43
52	Prevalence of Cerebral Microbleeds in Patients With Continuousâ€Flow Left Ventricular Assist Devices. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	43
53	Quantification of sympathetic hyperinnervation and denervation after myocardial infarction by three-dimensional assessment of the cardiac sympathetic network in cleared transparent murine hearts. <i>PLoS ONE</i> , 2017, 12, e0182072.	1.1	40
54	Propensity-matched analysis of minimally invasive mitral valve repair using a nationwide surgical database. <i>Surgery Today</i> , 2015, 45, 1144-1152.	0.7	38

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55	Tumorigenicity assay essential for facilitating safety studies of hiPSC-derived cardiomyocytes for clinical application. <i>Scientific Reports</i> , 2019, 9, 1881.	1.6	38
56	JCS/JSCVS 2018 Guideline on Revascularization of Stable Coronary Artery Disease. <i>Circulation Journal</i> , 2022, 86, 477-588.	0.7	38
57	Coronary Artery Bypass Grafting in Hemodialysis-Dependent Patients. <i>Circulation Journal</i> , 2012, 76, 1115-1120.	0.7	36
58	Syngeneic Mesenchymal Stem Cells Reduce Immune Rejection After Induced Pluripotent Stem Cell-Derived Allogeneic Cardiomyocyte Transplantation. <i>Scientific Reports</i> , 2020, 10, 4593.	1.6	36
59	Addition of Mesenchymal Stem Cells Enhances the Therapeutic Effects of Skeletal Myoblast Cell-Sheet Transplantation in a Rat Ischemic Cardiomyopathy Model. <i>Tissue Engineering - Part A</i> , 2014, 20, 140103055133005.	1.6	35
60	Impact of untreated mild-to-moderate mitral regurgitation at the time of isolated aortic valve replacement on late adverse outcomes†. <i>European Journal of Cardio-thoracic Surgery</i> , 2010, 37, 1033-1038.	0.6	34
61	Relationship Between Bacteremia and Hemorrhagic Stroke in Patients With Continuous-Flow Left Ventricular Assist Device. <i>Circulation Journal</i> , 2018, 82, 448-456.	0.7	33
62	Circulating re-entrant waves promote maturation of hiPSC-derived cardiomyocytes in self-organized tissue ring. <i>Communications Biology</i> , 2020, 3, 122.	2.0	32
63	Combined autologous cellular cardiomyoplasty using skeletal myoblasts and bone marrow cells for human ischemic cardiomyopathy with left ventricular assist system implantation: Report of a case. <i>Surgery Today</i> , 2009, 39, 133-136.	0.7	31
64	SVVYGLR motif of the thrombin-cleaved N-terminal osteopontin fragment enhances the synthesis of collagen type III in myocardial fibrosis. <i>Molecular and Cellular Biochemistry</i> , 2015, 408, 191-203.	1.4	31
65	Tissue-engineered smooth muscle cell and endothelial progenitor cell bi-level cell sheets prevent progression of cardiac dysfunction, microvascular dysfunction, and interstitial fibrosis in a rodent model of type 1 diabetes-induced cardiomyopathy. <i>Cardiovascular Diabetology</i> , 2017, 16, 142.	2.7	30
66	Diagnosis, medical treatment, and stepwise mechanical circulatory support for fulminant myocarditis. <i>Journal of Artificial Organs</i> , 2018, 21, 172-179.	0.4	30
67	Overexpression of collagen type III in injured myocardium prevents cardiac systolic dysfunction by changing the balance of collagen distribution. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 156, 217-226.e3.	0.4	30
68	MHC-mismatched Allotransplantation of Induced Pluripotent Stem Cell-derived Cardiomyocyte Sheets to Improve Cardiac Function in a Primate Ischemic Cardiomyopathy Model. <i>Transplantation</i> , 2019, 103, 1582-1590.	0.5	30
69	Newly Developed Tissue-Engineered Material for Reconstruction of Vascular Wall Without Cell Seeding. <i>Annals of Thoracic Surgery</i> , 2009, 88, 1269-1276.	0.7	29
70	Experimental Pig Model of Old Myocardial Infarction with Long Survival Leading to Chronic Left Ventricular Dysfunction and Remodeling as Evaluated by PET. <i>Journal of Nuclear Medicine</i> , 2011, 52, 761-768.	2.8	29
71	Effects of patient movement on measurements of myocardial blood flow and viability in resting 15O-water PET studies. <i>Journal of Nuclear Cardiology</i> , 2012, 19, 524-533.	1.4	29
72	Tissue Inhibitor of Metalloproteinase-1 and -3 Improves Cardiac Function in an Ischemic Cardiomyopathy Model Rat. <i>Tissue Engineering - Part A</i> , 2014, 20, 3073-3084.	1.6	29

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73	Xenotransplantation of Bone Marrow-Derived Human Mesenchymal Stem Cell Sheets Attenuates Left Ventricular Remodeling in a Porcine Ischemic Cardiomyopathy Model. <i>Tissue Engineering - Part A</i> , 2015, 21, 2272-2280.	1.6	29
74	Histone Modification Is Correlated With Reverse Left Ventricular Remodeling in Nonischemic Dilated Cardiomyopathy. <i>Annals of Thoracic Surgery</i> , 2017, 104, 1531-1539.	0.7	29
75	Frequency, Risk Factors and Prognosis of Postoperative Hyperbilirubinemia after Heart Valve Surgery. <i>Cardiology</i> , 2012, 122, 12-19.	0.6	28
76	Building a bridge to recovery: the pathophysiology of LVAD-induced reverse modeling in heart failure. <i>Surgery Today</i> , 2016, 46, 149-154.	0.7	28
77	Risk Index for Postoperative Acute Kidney Injury After Valvular Surgery Using Cardiopulmonary Bypass. <i>Annals of Thoracic Surgery</i> , 2017, 104, 868-875.	0.7	28
78	Intravital imaging with two-photon microscopy reveals cellular dynamics in the ischemia-reperfused rat heart. <i>Scientific Reports</i> , 2018, 8, 15991.	1.6	28
79	Teratocarcinomas Arising from Allogeneic Induced Pluripotent Stem Cell-Derived Cardiac Tissue Constructs Provoked Host Immune Rejection in Mice. <i>Scientific Reports</i> , 2016, 6, 19464.	1.6	27
80	hiPSC-Derived Cardiac Tissue for Disease Modeling and Drug Discovery. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8893.	1.8	27
81	Transplantation of myoblast sheets that secrete the novel peptide SVVYGLR improves cardiac function in failing hearts. <i>Cardiovascular Research</i> , 2013, 99, 102-110.	1.8	26
82	Novel Method of Evaluating Liver Stiffness Using Transient Elastography to Evaluate Perioperative Status in Severe Heart Failure. <i>Circulation Journal</i> , 2015, 79, 391-397.	0.7	26
83	Generation of Induced Pluripotent Stem Cells From Patients With Duchenne Muscular Dystrophy and Their Induction to Cardiomyocytes. <i>International Heart Journal</i> , 2016, 57, 112-117.	0.5	26
84	Engraftment and morphological development of vascularized human iPS cell-derived 3D-cardiomyocyte tissue after xenotransplantation. <i>Scientific Reports</i> , 2017, 7, 13708.	1.6	26
85	Assessment of Changes in Mitral Valve Configuration With Multidetector Computed Tomography. <i>Circulation</i> , 2010, 122, S29-36.	1.6	25
86	Dilated left atrium as a predictor of late outcome after pulmonary vein isolation concomitant with aortic valve replacement and/or coronary artery bypass grafting. <i>European Journal of Cardio-thoracic Surgery</i> , 2015, 48, 765-777.	0.6	25
87	Synthetic prostacyclin agonist, ONO1301, enhances endogenous myocardial repair in a hamster model of dilated cardiomyopathy: A promising regenerative therapy for the failing heart. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 146, 1516-1525.	0.4	24
88	Cell Spray Transplantation of Adipose-derived Mesenchymal Stem Cell Recovers Ischemic Cardiomyopathy in a Porcine Model. <i>Transplantation</i> , 2018, 102, 2012-2024.	0.5	24
89	Building a new strategy for treating heart failure using Induced Pluripotent Stem Cells. <i>Journal of Cardiology</i> , 2018, 72, 445-448.	0.8	24
90	Analysis of sympathetic nerve activity in end-stage cardiomyopathy patients receiving left ventricular support. <i>Journal of Heart and Lung Transplantation</i> , 2001, 20, 1181-1187.	0.3	23

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91	Initial Experience of Conversion of Toyobo Paracorporeal Left Ventricular Assist Device to DuraHeart Left Ventricular Assist Device. <i>Circulation Journal</i> , 2012, 76, 372-376.	0.7	23
92	Improvement of Cardiac Stem Cell Sheet Therapy for Chronic Ischemic Injury by Adding Endothelial Progenitor Cell Transplantation: Analysis of Layer-Specific Regional Cardiac Function. <i>Cell Transplantation</i> , 2014, 23, 1305-1319.	1.2	23
93	Building A New Treatment For Heart Failure-Transplantation of Induced Pluripotent Stem Cell-derived Cells into the Heart. <i>Current Gene Therapy</i> , 2016, 16, 5-13.	0.9	23
94	Endocardium differentiation through Sox17 expression in endocardium precursor cells regulates heart development in mice. <i>Scientific Reports</i> , 2019, 9, 11953.	1.6	23
95	Myoblast Sheet Can Prevent the Impairment of Cardiac Diastolic Function and Late Remodeling After Left Ventricular Restoration in Ischemic Cardiomyopathy. <i>Transplantation</i> , 2012, 93, 1108-1115.	0.5	22
96	Adipose stem cell sheets improved cardiac function in the rat myocardial infarction, but did not alter cardiac contractile responses to Î²-adrenergic stimulation . <i>Biomedical Research</i> , 2015, 36, 11-19.	0.3	22
97	Enhanced Pulmonary Vascular and Alveolar Development via Prenatal Administration of a Slow-Release Synthetic Prostacyclin Agonist in Rat Fetal Lung Hypoplasia. <i>PLoS ONE</i> , 2016, 11, e0161334.	1.1	22
98	Improved clinical course of autologous skeletal myoblast sheet (TCD-51073) transplantation when compared to a propensity score-matched cardiac resynchronization therapy population. <i>Journal of Artificial Organs</i> , 2016, 19, 80-86.	0.4	22
99	Impact of cardiac stem cell sheet transplantation on myocardial infarction. <i>Surgery Today</i> , 2013, 43, 970-976.	0.7	21
100	Diabetes mellitus adversely affects mortality and recurrence after valve surgery for infective endocarditis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 1021-1029.e5.	0.4	21
101	Development of a vitrification method for preserving human myoblast cell sheets for myocardial regeneration therapy. <i>BMC Biotechnology</i> , 2018, 18, 56.	1.7	21
102	Generation of Fabry cardiomyopathy model for drug screening using induced pluripotent stem cell-derived cardiomyocytes from a female Fabry patient. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 121, 256-265.	0.9	21
103	Structural Changes in <i>N</i>-Glycans on Induced Pluripotent Stem Cells Differentiating Toward Cardiomyocytes. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1258-1264.	1.6	20
104	Evaluation of right ventricular function using liver stiffness in patients with left ventricular assist deviceâ€. <i>European Journal of Cardio-thoracic Surgery</i> , 2017, 51, 715-721.	0.6	20
105	Adeno-associated virus-mediated gene delivery promotes S-phase entry-independent precise targeted integration in cardiomyocytes. <i>Scientific Reports</i> , 2020, 10, 15348.	1.6	20
106	Coronary Microcirculatory Dysfunction in Aortic Stenosis: Myocardial Contrast Echocardiography Study. <i>Annals of Thoracic Surgery</i> , 2009, 87, 715-719.	0.7	19
107	The extent of early left ventricular reverse remodelling is related to midterm outcomes after restrictive mitral annuloplasty in patients with non-ischaemic dilated cardiomyopathy and functional mitral regurgitation. <i>European Journal of Cardio-thoracic Surgery</i> , 2012, 41, 506-511.	0.6	19
108	DuraHeart<sup>TM</sup> Magnetically Levitated Left Ventricular Assist Device. <i>Circulation Journal</i> , 2013, 77, 1736-1741.	0.7	19

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109	Effects of tolvaptan in the early postoperative stage after heart valve surgery: results of the STAR (Study of Tolvaptan for fluid retention After valve surgery) trial. <i>Surgery Today</i> , 2015, 45, 1542-1551.	0.7	19
110	Diabetes Mellitus Impairs Left Ventricular Mass Regression after Surgical or Transcatheter Aortic Valve Replacement for Severe Aortic Stenosis. <i>Heart Lung and Circulation</i> , 2016, 25, 68-74.	0.2	19
111	Long-term outcomes of autologous skeletal myoblast cell-sheet transplantation for end-stage ischemic cardiomyopathy. <i>Molecular Therapy</i> , 2021, 29, 1425-1438.	3.7	19
112	Phenotypic recapitulation and correction of desmoglein-2-deficient cardiomyopathy using human-induced pluripotent stem cell-derived cardiomyocytes. <i>Human Molecular Genetics</i> , 2021, 30, 1384-1397.	1.4	19
113	Development of PET Imaging to Visualize Activated Macrophages Accumulated in the Transplanted iPSC-Derived Cardiac Myocytes of Allogeneic Origin for Detecting the Immune Rejection of Allogeneic Cell Transplants in Mice. <i>PLoS ONE</i> , 2016, 11, e0165748.	1.1	19
114	Intracoronary artery transplantation of cardiomyoblast-like cells from human adipose tissue-derived multi-lineage progenitor cells improve left ventricular dysfunction and survival in a swine model of chronic myocardial infarction. <i>Biochemical and Biophysical Research Communications</i> , 2012, 425, 859-865.	1.0	18
115	Myocardial Layer-Specific Effect of Myoblast Cell-Sheet Implantation Evaluated by Tissue Strain Imaging. <i>Circulation Journal</i> , 2013, 77, 1063-1072.	0.7	18
116	Adipose-derived stem cell sheet under an elastic patch improves cardiac function in rats after myocardial infarction. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2022, 163, e261-e272.	0.4	18
117	Modeling reduced contractility and impaired desmosome assembly due to plakophilin-2 deficiency using isogenic iPSC cell-derived cardiomyocytes. <i>Stem Cell Reports</i> , 2022, 17, 337-351.	2.3	18
118	Myocardial protective effect of FR167653; a novel cytokine inhibitor in ischemic-reperfused rat heart. <i>European Journal of Cardio-thoracic Surgery</i> , 2004, 26, 974-980.	0.6	17
119	Mitral Valve Repair for Medically Refractory Functional Mitral Regurgitation in Patients With End-Stage Renal Disease and Advanced Heart Failure. <i>Circulation</i> , 2012, 126, S205-13.	1.6	17
120	Comparison of Arrhythmogenicity and Proinflammatory Activity Induced by Intramyocardial or Epicardial Myoblast Sheet Delivery in a Rat Model of Ischemic Heart Failure. <i>PLoS ONE</i> , 2015, 10, e0123963.	1.1	17
121	B-type natriuretic peptide response and reverse left ventricular remodeling after surgical correction of functional mitral regurgitation in patients with advanced cardiomyopathy. <i>Journal of Cardiology</i> , 2015, 66, 279-285.	0.8	17
122	Isolation and trans-differentiation of mesenchymal stromal cells into smooth muscle cells: Utility and applicability for cell-sheet engineering. <i>Cytotherapy</i> , 2016, 18, 510-517.	0.3	17
123	The Paracrine Effect of Skeletal Myoblasts is Cardioprotective against Oxidative Stress and Involves EGFR-ErbB4 Signaling, Cystathionase, and the Unfolded Protein Response. <i>Cell Transplantation</i> , 2016, 25, 55-69.	1.2	17
124	Prostacyclin Analogue-Loaded Nanoparticles Attenuate Myocardial Ischemia/Reperfusion Injury in Rats. <i>JACC Basic To Translational Science</i> , 2019, 4, 318-331.	1.9	17
125	Pioglitazone strengthen therapeutic effect of adipose-derived regenerative cells against ischemic cardiomyopathy through enhanced expression of adiponectin and modulation of macrophage phenotype. <i>Cardiovascular Diabetology</i> , 2019, 18, 39.	2.7	17
126	A disintegrin and metalloproteinase 12 prevents heart failure by regulating cardiac hypertrophy and fibrosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H238-H251.	1.5	17

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127	Therapeutic efficacy of large aligned cardiac tissue derived from induced pluripotent stem cell in a porcine ischemic cardiomyopathy model. <i>Journal of Heart and Lung Transplantation</i> , 2021, 40, 767-777.	0.3	17
128	Sustained-Release Delivery of Prostacyclin Analogue Enhances Bone Marrow-Cell Recruitment and Yields Functional Benefits for Acute Myocardial Infarction in Mice. <i>PLoS ONE</i> , 2013, 8, e69302.	1.1	17
129	Combined Strategy Using Myoblasts and Hepatocyte Growth Factor in Dilated Cardiomyopathic Hamsters. <i>Annals of Thoracic Surgery</i> , 2007, 84, 134-141.	0.7	16
130	Layered smooth muscle cell-endothelial progenitor cell sheets derived from the bone marrow augment postinfarction ventricular function. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 154, 955-963.	0.4	16
131	Influence of coronary architecture on the variability in myocardial infarction induced by coronary ligation in rats. <i>PLoS ONE</i> , 2017, 12, e0183323.	1.1	16
132	Recent Surgical Results for Active Endocarditis Complicated With Perivalvular Abscess. <i>Circulation Journal</i> , 2017, 81, 1721-1729.	0.7	16
133	Emergency valve surgery improves clinical results in patients with infective endocarditis complicated with acute cerebral infarction: analysis using propensity score matching. <i>European Journal of Cardio-thoracic Surgery</i> , 2019, 56, 942-949.	0.6	16
134	Transplantation of elastin-secreting myoblast sheets improves cardiac function in infarcted rat heart. <i>Molecular and Cellular Biochemistry</i> , 2012, 368, 203-214.	1.4	15
135	Impact of cardiac support device combined with slow-release prostacyclin agonist in a canine ischemic cardiomyopathy model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 147, 1081-1087.	0.4	15
136	Tissue-engineered stent-graft integrates with aortic wall by recruiting host tissue into graft scaffold. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 1719-1725.	0.4	15
137	Geometrical Patterning and Constituent Cell Heterogeneity Facilitate Electrical Conduction Disturbances in a Human Induced Pluripotent Stem Cell-Based Platform: An In vitro Disease Model of Atrial Arrhythmias. <i>Frontiers in Physiology</i> , 2019, 10, 818.	1.3	15
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