Atsuhiro Saito

List of Publications by Year
in descending order

72 papers	3,738 citations	147801 31 h-index	128289 60 g-index
72 all docs	72 docs citations	72 times ranked	4091 citing authors

#	Article	IF	Citations
1	Role and therapeutic effects of skeletal muscle-derived non-myogenic cells in a rat myocardial infarction model. Stem Cell Research and Therapy, 2020, 11, 69.	5.5	8
2	Intratumoral injection of hemagglutinating virus of Japan-envelope vector yielded an antitumor effect for advanced melanoma: a phase I/IIa clinical study. Cancer Immunology, Immunotherapy, 2020, 69, 1131-1140.	4.2	12
3	CXCL4/PF4 is a predictive biomarker of cardiac differentiation potential of human induced pluripotent stem cells. Scientific Reports, 2019, 9, 4638.	3.3	10
4	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. Transplantation, 2019, 103, 291-298.	1.0	78
5	Immunologic targeting of CD30 eliminates tumourigenic human pluripotent stem cells, allowing safer clinical application of hiPSC-based cell therapy. Scientific Reports, 2018, 8, 3726.	3.3	44
6	Novel regenerative therapy combined with transphrenic peritoneoscopy-assisted omentopexy. Interactive Cardiovascular and Thoracic Surgery, 2018, 26, 993-1001.	1.1	5
7	Pivotal Role of Non-cardiomyocytes in Electromechanical and Therapeutic Potential of Induced Pluripotent Stem Cell-Derived Engineered Cardiac Tissue. Tissue Engineering - Part A, 2018, 24, 287-300.	3.1	63
8	Development of <i>In Vitro</i> Drug-Induced Cardiotoxicity Assay by Using Three-Dimensional Cardiac Tissues Derived from Human Induced Pluripotent Stem Cells. Tissue Engineering - Part C: Methods, 2018, 24, 56-67.	2.1	88
9	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. Surgery Today, 2018, 48, 200-210.	1.5	47
10	Development of a vitrification method for preserving human myoblast cell sheets for myocardial regeneration therapy. BMC Biotechnology, 2018, 18, 56.	3.3	21
11	Adipose tissueâ€“derived multi-lineage progenitor cells improve left ventricular dysfunction in porcine ischemic cardiomyopathy model. Journal of Heart and Lung Transplantation, 2017, 36, 237-239.	0.6	6
12	Development of a practical sandwich assay to detect human pluripotent stem cells using cell culture media. Regenerative Therapy, 2017, 6, 1-8.	3.0	7
13	Phase I Clinical Trial of Autologous Stem Cellâ€“Sheet Transplantation Therapy for Treating Cardiomyopathy. Journal of the American Heart Association, 2017, 6, .	3.7	142
14	Biodegradable vs Nonbiodegradable Cardiac Support Device for Treating Ischemic Cardiomyopathy in a Canine Heart. Seminars in Thoracic and Cardiovascular Surgery, 2017, 29, 51-61.	0.6	11
15	Enhanced Therapeutic Effects of Human iPS Cell Derived-Cardiomyocyte by Combined Cell-Sheets with Omental Flap Technique in Porcine Ischemic Cardiomyopathy Model. Scientific Reports, 2017, 7, 8824.	3.3	90
16	Influence of coronary architecture on the variability in myocardial infarction induced by coronary ligation in rats. PLoS ONE, 2017, 12, e0183323.	2.5	16
17	Enhanced Pulmonary Vascular and Alveolar Development via Prenatal Administration of a Slow-Release Synthetic Prostacyclin Agonist in Rat Fetal Lung Hypoplasia. PLoS ONE, 2016, 11, e0161334.	2.5	22
18	Sirtuin1 Regulates the Stem Cell Therapeutic Effects on Regenerative Capability for Treating Severe Heart Failure in a Juvenile Animal Model. Annals of Thoracic Surgery, 2016, 102, 803-812.	1.3	6

#	Article	IF	Citations
19	LamininÎ±2-secreting fibroblasts enhance the therapeutic effect of skeletal myoblast sheets. European Journal of Cardio-thoracic Surgery, 2016, 51, ezw296.	1.4	7
20	Cardioprotective effects on ischemic myocardium induced by SVVYGLR peptide via its angiogenic-promoting activity. Tissue Engineering and Regenerative Medicine, 2015, 12, 162-171.	3.7	1
21	Structural Changes in <i>N</i>-Glycans on Induced Pluripotent Stem Cells Differentiating Toward Cardiomyocytes. Stem Cells Translational Medicine, 2015, 4, 1258-1264.	3.3	20
22	Functional and Electrical Integration of Induced Phiripotent Stem Cell-Derived Cardiomyocytes in a Myocardial Infarction Rat Heart. Cell Transplantation, 2015, 24, 2479-2489.	2.5	58
23	Eliminating residual iPS cells for safety in clinical application. Protein and Cell, 2015, 6, 469-471.	11.0	10
24	Improvement of cardiac function after implanting the osteopontin-derived peptide SVVYGLR in a hamster model of dilated cardiomyopathy. Interactive Cardiovascular and Thoracic Surgery, 2015, 21, 506-514.	1.1	12
25	Cell-sheet Therapy With Omentopexy Promotes Arteriogenesis and Improves Coronary Circulation Physiology in Failing Heart. Molecular Therapy, 2015, 23, 374-386.	8.2	43
26	Xenotransplantation of Bone Marrow-Derived Human Mesenchymal Stem Cell Sheets Attenuates Left Ventricular Remodeling in a Porcine Ischemic Cardiomyopathy Model. Tissue Engineering - Part A, 2015, 21, 2272-2280.	3.1	29
27	SVVYGLR motif of the thrombin-cleaved N-terminal osteopontin fragment enhances the synthesis of collagen type III in myocardial fibrosis. Molecular and Cellular Biochemistry, 2015, 408, 191-203.	3.1	31
28	N-Glycans: Phenotypic Homology and Structural Differences between Myocardial Cells and Induced Pluripotent Stem Cell-Derived Cardiomyocytes. PLoS ONE, 2014, 9, e111064.	2.5	14
29	Emerging innovation towards safety in the clinical application of ESCs and iPSCs. Nature Reviews Cardiology, 2014, 11, 553-554.	13.7	13
30	Addition of Mesenchymal Stem Cells Enhances the Therapeutic Effects of Skeletal Myoblast Cell-Sheet Transplantation in a Rat Ischemic Cardiomyopathy Model. Tissue Engineering - Part A, 2014, 20, 140103055133005.	3.1	35
31	Tissue Inhibitor of Metalloproteinase-1 and -3 Improves Cardiac Function in an Ischemic Cardiomyopathy Model Rat. Tissue Engineering - Part A, 2014, 20, 3073-3084.	3.1	29
32	Impact of cardiac support device combined with slow-release prostacyclin agonist in a canine ischemic cardiomyopathy model. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, 1081-1087.	0.8	15
33	Human Cardiac Stem Cells With Reduced Notch Signaling Show Enhanced Therapeutic Potential in a Rat Acute Infarction Model. Circulation Journal, 2014, 78, 222-231.	1.6	13
34	Improvement of Cardiac Stem Cell Sheet Therapy for Chronic Ischemic Injury by Adding Endothelial Progenitor Cell Transplantation: Analysis of Layer-Specific Regional Cardiac Function. Cell Transplantation, 2014, 23, 1305-1319.	2.5	23
35	Impact of cardiac stem cell sheet transplantation on myocardial infarction. Surgery Today, 2013, 43, 970-976.	1.5	21
36	A slow-releasing form of prostacyclin agonist (ONO1301SR) enhances endogenous secretion of multiple cardiotherapeutic cytokines and improves cardiac function in a rapid-pacingâ€"induced model of canine heart failure. Journal of Thoracic and Cardiovascular Surgery, 2013, 146, 413-421.	0.8	13

#	Article	IF	Citations
37	Synthetic prostacyclin agonist, ONO1301, enhances endogenous myocardial repair in a hamster model of dilated cardiomyopathy: A promising regenerative therapy for the failing heart. Journal of Thoracic and Cardiovascular Surgery, 2013, 146, 1516-1525.	0.8	24
38	Network formation through active migration of human vascular endothelial cells in a multilayered skeletal myoblast sheet. Biomaterials, 2013, 34, 662-668.	11.4	46
39	Transplantation of myoblast sheets that secrete the novel peptide SVVYGLR improves cardiac function in failing hearts. Cardiovascular Research, 2013, 99, 102-110.	3.8	26
40	Enhanced Survival of Transplanted Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes by the Combination of Cell Sheets With the Pedicled Omental Flap Technique in a Porcine Heart. Circulation, 2013, 128, S87-94.	1.6	175
41	In Vivo Differentiation of Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Circulation Journal, 2013, 77, 1297-1306.	1.6	50
42	Myocardial Layer-Specific Effect of Myoblast Cell-Sheet Implantation Evaluated by Tissue Strain Imaging. Circulation Journal, 2013, 77, 1063-1072.	1.6	18
43	Smart Biomaterials for Immunomodulation. Drug Delivery System, 2013, 28, 135-148.	0.0	0
44	Sustained-Release Delivery of Prostacyclin Analogue Enhances Bone Marrow-Cell Recruitment and Yields Functional Benefits for Acute Myocardial Infarction in Mice. PLoS ONE, 2013, 8, e69302.	2.5	17
45	Bioengineered Myocardium Derived from Induced Pluripotent Stem Cells Improves Cardiac Function and Attenuates Cardiac Remodeling Following Chronic Myocardial Infarction in Rats. Stem Cells Translational Medicine, 2012, 1, 430-437.	3.3	77
46	Myoblast Sheet Can Prevent the Impairment of Cardiac Diastolic Function and Late Remodeling After Left Ventricular Restoration in Ischemic Cardiomyopathy. Transplantation, 2012, 93, 1108-1115.	1.0	22
47	Transplantation of elastin-secreting myoblast sheets improves cardiac function in infarcted rat heart. Molecular and Cellular Biochemistry, 2012, 368, 203-214.	3.1	15
48	Feasibility, Safety, and Therapeutic Efficacy of Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Sheets in a Porcine Ischemic Cardiomyopathy Model. Circulation, 2012, 126, S29-37.	1.6	421
49	Tissue engineered myoblast sheets improved cardiac function sufficiently to discontinue LVAS in a patient with DCM: report of a case. Surgery Today, 2012, 42, 181-184.	1.5	298
50	Evaluation of vertical cell fluidity in a multilayered sheet of skeletal myoblasts. Journal of Bioscience and Bioengineering, 2012, 113, 128-131.	2.2	21
51	Establishing New Porcine Ischemic Cardiomyopathy Model by Transcatheter Ischemia-Reperfusion of the Entire Left Coronary Artery System for Preclinical Experimental Studies. Transplantation, 2011, 92, e34-e35.	1.0	6
52	Novel regenerative therapy using cell-sheet covered with omentum flap delivers a huge number of cells in a porcine myocardial infarction model. Journal of Thoracic and Cardiovascular Surgery, 2011, 142, 1188-1196.	0.8	69
53	Tissue-Engineered Cardiac Constructs for Cardiac Repair. Annals of Thoracic Surgery, 2011, 91, 320-329.	1.3	61
54	Clinical impact of combined transplantation of autologous skeletal myoblasts and bone marrow mononuclear cells in patients with severely deteriorated ischemic cardiomyopathy. Surgery Today, 2011, 41, 1029-1036.	1.5	24

#	Article	IF	Citations
55	Allogenic Skeletal Myoblast Transplantation in Acute Myocardial Infarction Model Rats. Transplantation, 2011, 91, 425-431.	1.0	7
56	Impaired Myocardium Regeneration With Skeletal Cell Sheetsâ€"A Preclinical Trial for Tissue-Engineered Regeneration Therapy. Transplantation, 2010, 90, 364-372.	1.0	118
57	Myogenic induction of human mesenchymal stem cells by culture on dendrimer-immobilized surface with d-glucose display. Journal of Bioscience and Bioengineering, 2010, 109, 55-61.	2.2	10
58	Growth and differentiation potentials in confluent state of culture of human skeletal muscle myoblasts. Journal of Bioscience and Bioengineering, 2010, 109, 310-313.	2.2	21
59	Cardiomyogenic induction of human mesenchymal stem cells by altered Rho family GTPase expression on dendrimer-immobilized surface with d-glucose display. Biomaterials, 2010, 31, 7666-7677.	11.4	32
60	Composite Cell Sheets. Circulation, 2010, 122, S118-23.	1.6	121
61	Layered implantation of myoblast sheets attenuates adverse cardiac remodeling of the infarcted heart. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 985-993.	0.8	93
62	Skeletal myoblast sheet transplantation improves the diastolic function of a pressure-overloaded right heart. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 460-467.	0.8	77
63	Downregulation of ferritin heavy chain increases labile iron pool, oxidative stress and cell death in cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2009, 46, 59-66.	1.9	51
64	Newly Developed Tissue-Engineered Material for Reconstruction of Vascular Wall Without Cell Seeding. Annals of Thoracic Surgery, 2009, 88, 1269-1276.	1.3	29
65	A self-renewing, tissue-engineered vascular graft for arterial reconstruction. Journal of Thoracic and Cardiovascular Surgery, 2008, 136, 37-45.e1.	0.8	85
66	In situ tissue regeneration using a novel tissue-engineered, small-caliber vascular graft without cell seeding. Journal of Thoracic and Cardiovascular Surgery, 2008, 136, 900-907.	0.8	125
67	Allogenic mesenchymal stem cell transplantation has a therapeutic effect in acute myocardial infarction in rats. Journal of Molecular and Cellular Cardiology, 2008, 44, 662-671.	1.9	115
68	Repair of 20-mm long rabbit radial bone defects using BMP-derived peptide combined with an Î±-tricalcium phosphate scaffold. Journal of Biomedical Materials Research - Part A, 2006, 77A, 700-706.	4.0	74
69	Accelerated bone repair with the use of a synthetic BMP-2-derived peptide and bone-marrow stromal cells. Journal of Biomedical Materials Research Part B, 2005, 72A, 77-82.	3.1	95
70	Prolonged ectopic calcification induced by BMP-2-derived synthetic peptide. Journal of Biomedical Materials Research Part B, 2004, 70A, 115-121.	3.1	82
71	Activation of osteo-progenitor cells by a novel synthetic peptide derived from the bone morphogenetic protein-2 knuckle epitope. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1651, 60-67.	2.3	169
72	Measurement of glutamate, glutamine and .GAMMA.-aminobutylate by biosensor.. Journal of Advanced Science, 1997, 9, 93-94.	0.1	1