

# Atsuhiko Saito

## List of Publications by Year in descending order

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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	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	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.	1.5	298
3	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
4	Activation of osteo-progenitor cells by a novel synthetic peptide derived from the bone morphogenetic protein-2 knuckle epitope. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1651, 60-67.	2.3	169
5	Phase I Clinical Trial of Autologous Stem Cell-Sheet Transplantation Therapy for Treating Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	142
6	In situ tissue regeneration using a novel tissue-engineered, small-caliber vascular graft without cell seeding. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008, 136, 900-907.	0.8	125
7	Composite Cell Sheets. <i>Circulation</i> , 2010, 122, S118-23.	1.6	121
8	Impaired Myocardium Regeneration With Skeletal Cell Sheets—A Preclinical Trial for Tissue-Engineered Regeneration Therapy. <i>Transplantation</i> , 2010, 90, 364-372.	1.0	118
9	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.	1.9	115
10	Accelerated bone repair with the use of a synthetic BMP-2-derived peptide and bone-marrow stromal cells. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72A, 77-82.	3.1	95
11	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.	0.8	93
12	Enhanced Therapeutic Effects of Human iPS Cell Derived-Cardiomyocyte by Combined Cell-Sheets with Omental Flap Technique in Porcine Ischemic Cardiomyopathy Model. <i>Scientific Reports</i> , 2017, 7, 8824.	3.3	90
13	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.	2.1	88
14	A self-renewing, tissue-engineered vascular graft for arterial reconstruction. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008, 136, 37-45.e1.	0.8	85
15	Prolonged ectopic calcification induced by BMP-2-derived synthetic peptide. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 115-121.	3.1	82
16	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.	1.0	78
17	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.	0.8	77
18	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.	3.3	77

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19	Repair of 20-mm long rabbit radial bone defects using BMP-derived peptide combined with an $\beta$ -tricalcium phosphate scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 700-706.	4.0	74
20	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.	0.8	69
21	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.	3.1	63
22	Tissue-Engineered Cardiac Constructs for Cardiac Repair. <i>Annals of Thoracic Surgery</i> , 2011, 91, 320-329.	1.3	61
23	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.	2.5	58
24	Downregulation of ferritin heavy chain increases labile iron pool, oxidative stress and cell death in cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 59-66.	1.9	51
25	In Vivo Differentiation of Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Circulation Journal</i> , 2013, 77, 1297-1306.	1.6	50
26	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.	1.5	47
27	Network formation through active migration of human vascular endothelial cells in a multilayered skeletal myoblast sheet. <i>Biomaterials</i> , 2013, 34, 662-668.	11.4	46
28	Immunologic targeting of CD30 eliminates tumorigenic human pluripotent stem cells, allowing safer clinical application of hiPSC-based cell therapy. <i>Scientific Reports</i> , 2018, 8, 3726.	3.3	44
29	Cell-sheet Therapy With Omentopexy Promotes Arteriogenesis and Improves Coronary Circulation Physiology in Failing Heart. <i>Molecular Therapy</i> , 2015, 23, 374-386.	8.2	43
30	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.	3.1	35
31	Cardiomyogenic induction of human mesenchymal stem cells by altered Rho family GTPase expression on dendrimer-immobilized surface with d-glucose display. <i>Biomaterials</i> , 2010, 31, 7666-7677.	11.4	32
32	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.	3.1	31
33	Newly Developed Tissue-Engineered Material for Reconstruction of Vascular Wall Without Cell Seeding. <i>Annals of Thoracic Surgery</i> , 2009, 88, 1269-1276.	1.3	29
34	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.	3.1	29
35	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.	3.1	29
36	Transplantation of myoblast sheets that secrete the novel peptide SVVYGLR improves cardiac function in failing hearts. <i>Cardiovascular Research</i> , 2013, 99, 102-110.	3.8	26

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37	Clinical impact of combined transplantation of autologous skeletal myoblasts and bone marrow mononuclear cells in patients with severely deteriorated ischemic cardiomyopathy. <i>Surgery Today</i> , 2011, 41, 1029-1036.	1.5	24
38	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.	0.8	24
39	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.	2.5	23
40	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.	1.0	22
41	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.	2.5	22
42	Growth and differentiation potentials in confluent state of culture of human skeletal muscle myoblasts. <i>Journal of Bioscience and Bioengineering</i> , 2010, 109, 310-313.	2.2	21
43	Evaluation of vertical cell fluidity in a multilayered sheet of skeletal myoblasts. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 128-131.	2.2	21
44	Impact of cardiac stem cell sheet transplantation on myocardial infarction. <i>Surgery Today</i> , 2013, 43, 970-976.	1.5	21
45	Development of a vitrification method for preserving human myoblast cell sheets for myocardial regeneration therapy. <i>BMC Biotechnology</i> , 2018, 18, 56.	3.3	21
46	Structural Changes in N-Glycans on Induced Pluripotent Stem Cells Differentiating Toward Cardiomyocytes. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1258-1264.	3.3	20
47	Myocardial Layer-Specific Effect of Myoblast Cell-Sheet Implantation Evaluated by Tissue Strain Imaging. <i>Circulation Journal</i> , 2013, 77, 1063-1072.	1.6	18
48	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.	2.5	17
49	Influence of coronary architecture on the variability in myocardial infarction induced by coronary ligation in rats. <i>PLoS ONE</i> , 2017, 12, e0183323.	2.5	16
50	Transplantation of elastin-secreting myoblast sheets improves cardiac function in infarcted rat heart. <i>Molecular and Cellular Biochemistry</i> , 2012, 368, 203-214.	3.1	15
51	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.	0.8	15
52	N-Glycans: Phenotypic Homology and Structural Differences between Myocardial Cells and Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>PLoS ONE</i> , 2014, 9, e111064.	2.5	14
53	A slow-releasing form of prostacyclin agonist (ONO1301SR) enhances endogenous secretion of multiple cardiotherapeutic cytokines and improves cardiac function in a rapid-pacing-induced model of canine heart failure. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 146, 413-421.	0.8	13
54	Emerging innovation towards safety in the clinical application of ESCs and iPSCs. <i>Nature Reviews Cardiology</i> , 2014, 11, 553-554.	13.7	13

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55	Human Cardiac Stem Cells With Reduced Notch Signaling Show Enhanced Therapeutic Potential in a Rat Acute Infarction Model. <i>Circulation Journal</i> , 2014, 78, 222-231.	1.6	13
56	Improvement of cardiac function after implanting the osteopontin-derived peptide SVVYGLR in a hamster model of dilated cardiomyopathy. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2015, 21, 506-514.	1.1	12
57	Intratumoral injection of hemagglutinating virus of Japan-envelope vector yielded an antitumor effect for advanced melanoma: a phase I/IIa clinical study. <i>Cancer Immunology, Immunotherapy</i> , 2020, 69, 1131-1140.	4.2	12
58	Biodegradable vs Nonbiodegradable Cardiac Support Device for Treating Ischemic Cardiomyopathy in a Canine Heart. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2017, 29, 51-61.	0.6	11
59	Myogenic induction of human mesenchymal stem cells by culture on dendrimer-immobilized surface with d-glucose display. <i>Journal of Bioscience and Bioengineering</i> , 2010, 109, 55-61.	2.2	10
60	Eliminating residual iPS cells for safety in clinical application. <i>Protein and Cell</i> , 2015, 6, 469-471.	11.0	10
61	CXCL4/PF4 is a predictive biomarker of cardiac differentiation potential of human induced pluripotent stem cells. <i>Scientific Reports</i> , 2019, 9, 4638.	3.3	10
62	Role and therapeutic effects of skeletal muscle-derived non-myogenic cells in a rat myocardial infarction model. <i>Stem Cell Research and Therapy</i> , 2020, 11, 69.	5.5	8
63	Laminin $\pm$ 2-secreting fibroblasts enhance the therapeutic effect of skeletal myoblast sheets. <i>European Journal of Cardio-thoracic Surgery</i> , 2016, 51, ezw296.	1.4	7
64	Development of a practical sandwich assay to detect human pluripotent stem cells using cell culture media. <i>Regenerative Therapy</i> , 2017, 6, 1-8.	3.0	7
65	Allogenic Skeletal Myoblast Transplantation in Acute Myocardial Infarction Model Rats. <i>Transplantation</i> , 2011, 91, 425-431.	1.0	7
66	Establishing New Porcine Ischemic Cardiomyopathy Model by Transcatheter Ischemia-Reperfusion of the Entire Left Coronary Artery System for Preclinical Experimental Studies. <i>Transplantation</i> , 2011, 92, e34-e35.	1.0	6
67	Sirtuin1 Regulates the Stem Cell Therapeutic Effects on Regenerative Capability for Treating Severe Heart Failure in a Juvenile Animal Model. <i>Annals of Thoracic Surgery</i> , 2016, 102, 803-812.	1.3	6
68	Adipose tissue-derived multi-lineage progenitor cells improve left ventricular dysfunction in porcine ischemic cardiomyopathy model. <i>Journal of Heart and Lung Transplantation</i> , 2017, 36, 237-239.	0.6	6
69	Novel regenerative therapy combined with transphrenic peritoneoscopy-assisted omentopexy. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2018, 26, 993-1001.	1.1	5
70	Cardioprotective effects on ischemic myocardium induced by SVVYGLR peptide via its angiogenic-promoting activity. <i>Tissue Engineering and Regenerative Medicine</i> , 2015, 12, 162-171.	3.7	1
71	Measurement of glutamate, glutamine and .GAMMA.-aminobutylate by biosensor.. <i>Journal of Advanced Science</i> , 1997, 9, 93-94.	0.1	1
72	Smart Biomaterials for Immunomodulation. <i>Drug Delivery System</i> , 2013, 28, 135-148.	0.0	0