

Yoshiki Sawa

List of Publications by Year in descending order

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109
papers

4,037
citations

159585

30
h-index

123424

61
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119
all docs

119
docs citations

119
times ranked

4134
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.	0.8	317
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	Myocardial Regeneration Therapy for Heart Failure. <i>Circulation</i> , 2002, 105, 2556-2561.	1.6	163
5	Longer preservation of cardiac performance by sheet-shaped myoblast implantation in dilated cardiomyopathic hamsters. <i>Cardiovascular Research</i> , 2006, 69, 466-475.	3.8	162
6	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.	0.8	150
7	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.	1.6	144
8	Phase I Clinical Trial of Autologous Stem Cell-Derived Sheet Transplantation Therapy for Treating Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	142
9	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.	8.2	135
10	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
11	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.	4.8	115
12	Human Pluripotent Stem Cell-Derived Cardiac Tissue-like Constructs for Repairing the Infarcted Myocardium. <i>Stem Cell Reports</i> , 2017, 9, 1546-1559.	4.8	107
13	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.	8.3	106
14	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
15	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
16	Adiponectin Stimulates Exosome Release to Enhance Mesenchymal Stem-Cell-Driven Therapy of Heart Failure in Mice. <i>Molecular Therapy</i> , 2020, 28, 2203-2219.	8.2	86
17	Thoracic and cardiovascular surgeries in Japan during 2018. <i>General Thoracic and Cardiovascular Surgery</i> , 2021, 69, 179-212.	0.9	85
18	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

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19	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
20	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
21	The impact of preoperative identification of the Adamkiewicz artery on descending and thoracoabdominal aortic repair. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 151, 122-128.	0.8	52
22	In Vivo Differentiation of Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Circulation Journal</i> , 2013, 77, 1297-1306.	1.6	50
23	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
24	Present and Future Perspectives on Cell Sheet-Based Myocardial Regeneration Therapy. <i>BioMed Research International</i> , 2013, 2013, 1-6.	1.9	44
25	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
26	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
27	Genetic mutations in adipose triglyceride lipase and myocardial up-regulation of peroxisome proliferated activated receptor- α in patients with triglyceride deposit cardiomyopathy. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 574-579.	2.1	41
28	First Clinical Trial of a Self-Expandable Transcatheter Heart Valve in Japan in Patients With Symptomatic Severe Aortic Stenosis. <i>Circulation Journal</i> , 2014, 78, 1083-1090.	1.6	38
29	Syngeneic Mesenchymal Stem Cells Reduce Immune Rejection After Induced Pluripotent Stem Cell-Derived Allogeneic Cardiomyocyte Transplantation. <i>Scientific Reports</i> , 2020, 10, 4593.	3.3	36
30	Selectin on activated platelets enhances neutrophil endothelial adherence in myocardial reperfusion injury. <i>Cardiovascular Research</i> , 1999, 43, 968-973.	3.8	32
31	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.	1.0	30
32	Histone Modification Is Correlated With Reverse Left Ventricular Remodeling in Nonischemic Dilated Cardiomyopathy. <i>Annals of Thoracic Surgery</i> , 2017, 104, 1531-1539.	1.3	29
33	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.	3.3	27
34	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.	1.4	25
35	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
36	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.	2.0	23

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37	Endocardium differentiation through Sox17 expression in endocardium precursor cells regulates heart development in mice. <i>Scientific Reports</i> , 2019, 9, 11953.	3.3	23
38	Consideration of and expectations for the Pharmaceuticals, Medical Devices and Other Therapeutic Products Act in Japan. <i>Regenerative Therapy</i> , 2015, 1, 80-83.	3.0	21
39	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.	0.8	21
40	Learning Curve for Transcatheter Aortic Valve Implantation Under a Controlled Introduction System—Initial Analysis of a Japanese Nationwide Registry. <i>Circulation Journal</i> , 2018, 82, 1951-1958.	1.6	21
41	Impact of intra-abdominal absorbable sutures on surgical site infection in gastrointestinal and hepato-biliary-pancreatic surgery: results of a multicenter, randomized, prospective, phase II clinical trial. <i>Surgery Today</i> , 2017, 47, 1060-1071.	1.5	19
42	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.	2.5	19
43	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.	0.7	17
44	Heart transplantation for adults with congenital heart disease: current status and future prospects. <i>General Thoracic and Cardiovascular Surgery</i> , 2017, 65, 309-320.	0.9	17
45	Prostacyclin Analogue-Loaded Nanoparticles Attenuate Myocardial Ischemia/Reperfusion Injury in Rats. <i>JACC Basic To Translational Science</i> , 2019, 4, 318-331.	4.1	17
46	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.	3.2	17
47	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
48	Periodontal tissue regeneration by transplantation of adipose tissue-derived multi-lineage progenitor cells. <i>Inflammation and Regeneration</i> , 2014, 34, 109-116.	3.7	15
49	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.	2.8	15
50	Clinical Results, Adverse Events, and Change in End-Organ Function in Elderly Patients With HeartMate Left Ventricular Assist Device—Japanese Multicenter Study. <i>Circulation Journal</i> , 2018, 82, 409-418.	1.6	15
51	Practice Patterns and Outcomes of Transcatheter Aortic Valve Replacement in the United States and Japan: A Report From Joint Data Harmonization Initiative of STS/ACC TVT and JACTVT. <i>Journal of the American Heart Association</i> , 2022, 11, e023848.	3.7	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	Early prediction of acute kidney injury biomarkers after endovascular stent graft repair of aortic aneurysm: a prospective observational study. <i>Journal of Intensive Care</i> , 2014, 2, 45.	2.9	14
54	Insurance systems and reimbursement concerning research and development of regenerative medicine in Japan. <i>Regenerative Medicine</i> , 2017, 12, 179-186.	1.7	14

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55	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
56	Skeletal Myoblast Cell Sheet Implantation Ameliorates Both Systolic and Diastolic Cardiac Performance in Canine Dilated Cardiomyopathy Model. <i>Transplantation</i> , 2016, 100, 295-302.	1.0	13
57	The efficacy of tolvaptan in the perioperative management of chronic kidney disease patients undergoing open-heart surgery. <i>Surgery Today</i> , 2017, 47, 498-505.	1.5	13
58	Preliminary report on the cost effectiveness of ventricular assist devices. <i>Journal of Artificial Organs</i> , 2016, 19, 37-43.	0.9	12
59	Five-Year Outcomes of the First Pivotal Clinical Trial of Balloon-Expandable Transcatheter Aortic Valve Replacement in Japan (PREVAIL JAPAN). <i>Circulation Journal</i> , 2017, 81, 1102-1107.	1.6	11
60	Verification of pharmacogenomics-based algorithms to predict warfarin maintenance dose using registered data of Japanese patients. <i>European Journal of Clinical Pharmacology</i> , 2019, 75, 901-911.	1.9	11
61	Laminin-511 Supplementation Enhances Stem Cell Localization With Suppression in the Decline of Cardiac Function in Acute Infarct Rats. <i>Transplantation</i> , 2019, 103, e119-e127.	1.0	11
62	Dynamic Nano-Interfaces Enable Harvesting of Functional 3D-Engineered Tissues. <i>Advanced Healthcare Materials</i> , 2015, 4, 1164-1168.	7.6	10
63	Blockade of NKG2D/NKG2D ligand interaction attenuated cardiac remodelling after myocardial infarction. <i>Cardiovascular Research</i> , 2019, 115, 765-775.	3.8	10
64	Impact of turbulent blood flow in the aortic root on de novo aortic insufficiency during continuous-flow left ventricular assist device support. <i>Artificial Organs</i> , 2020, 44, 883-891.	1.9	10
65	Human induced pluripotent stem cell-derived three-dimensional cardiomyocyte tissues ameliorate the rat ischemic myocardium by remodeling the extracellular matrix and cardiac protein phenotype. <i>PLoS ONE</i> , 2021, 16, e0245571.	2.5	10
66	A Development of Nucleic Chromatin Measurements as a New Prognostic Marker for Severe Chronic Heart Failure. <i>PLoS ONE</i> , 2016, 11, e0148209.	2.5	10
67	Comparison of the Outcomes of Total Endovascular Aortic Arch Repair Between Branched Endograft and Chimney Endograft Technique in Zone 0 Landing. <i>Journal of Endovascular Therapy</i> , 2022, 29, 427-437.	1.5	10
68	A prostacyclin agonist and an omental flap increased myocardial blood flow in a porcine chronic ischemia model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 156, 229-241.e14.	0.8	9
69	Natural killer cells impede the engraftment of cardiomyocytes derived from induced pluripotent stem cells in syngeneic mouse model. <i>Scientific Reports</i> , 2019, 9, 10840.	3.3	9
70	Laminin-221 Enhances Therapeutic Effects of Human-Induced Pluripotent Stem Cell-Derived 3D-Engineered Cardiac Tissue Transplantation in a Rat Ischemic Cardiomyopathy Model. <i>Journal of the American Heart Association</i> , 2020, 9, e015841.	3.7	9
71	Clinical Outcomes of Autologous Stem Cell-Patch Implantation for Patients With Heart Failure With Nonischemic Dilated Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2021, 10, e008649.	3.7	9
72	Visualization of vortex flow and shear stress in the aortic root during left ventricular assist device support. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 154, 877-878.e1.	0.8	8

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73	Silent Native-valve Endocarditis Caused by <i>Propionibacterium acnes</i> . Internal Medicine, 2018, 57, 2417-2420.	0.7	8
74	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
75	Current status of myocardial regeneration therapy. General Thoracic and Cardiovascular Surgery, 2013, 61, 17-23.	0.9	7
76	Laminin α 2-secreting fibroblasts enhance the therapeutic effect of skeletal myoblast sheets. European Journal of Cardio-thoracic Surgery, 2016, 51, ezw296.	1.4	7
77	Midterm Outcomes With a Self-Expandable Transcatheter Heart Valve in Japanese Patients With Symptomatic Severe Aortic Stenosis. Circulation Journal, 2017, 81, 1108-1115.	1.6	7
78	Improvements in lower-limb muscle strength and foot pressure distribution with foot care in frail elderly adults: a randomized controlled trial from Japan. BMC Geriatrics, 2019, 19, 83.	2.7	7
79	Surgery-first treatment improves clinical results in infective endocarditis complicated with disseminated intravascular coagulation. European Journal of Cardio-thoracic Surgery, 2019, 56, 785-792.	1.4	7
80	A novel model of chronic limb ischemia to therapeutically evaluate the angiogenic effects of drug candidates. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1124-H1135.	3.2	7
81	Yes-associated protein activation potentiates glycogen synthase kinase β inhibitor-induced proliferation of neonatal cardiomyocytes and iPS cell-derived cardiomyocytes. Journal of Cellular Physiology, 2022, 237, 2539-2549.	4.1	7
82	Computational fluid dynamics visualizes turbulent flow in the aortic root of a patient under continuous-flow left ventricular assist device support. Journal of Thoracic and Cardiovascular Surgery, 2020, 159, e205-e207.	0.8	6
83	Innovative therapeutic strategy using prostaglandin I2 agonist (ONO1301) combined with nano drug delivery system for pulmonary arterial hypertension. Scientific Reports, 2021, 11, 7292.	3.3	6
84	Autologous skeletal myoblast sheet implantation for pediatric dilated cardiomyopathy: A case report. General Thoracic and Cardiovascular Surgery, 2021, 69, 859-861.	0.9	5
85	New regional drug delivery system by direct epicardial placement of slow-release prostacyclin agonist promise therapeutic angiogenesis in a porcine chronic myocardial infarction. Journal of Artificial Organs, 2021, 24, 465-472.	0.9	5
86	Human-Induced Pluripotent Stem Cell-Derived Cardiomyocyte Model for TNNT2 ^{160E} -Induced Cardiomyopathy. Circulation Genomic and Precision Medicine, 2022, 15, .	3.6	5
87	Vasculogenically conditioned peripheral blood mononuclear cells inhibit mouse immune response to induced pluripotent stem cell-derived allogeneic cardiac grafts. PLoS ONE, 2019, 14, e0217076.	2.5	4
88	New treatment strategy for severe heart failure: combination of ventricular assist device and regenerative therapy. Journal of Artificial Organs, 2021, 24, 1-5.	0.9	4
89	A Lesson From the Thalidomide Tragedy & The Past Is Never Dead. It's Not Even Past. & William Faulkner, From "Requiem for a Nun". Circulation Journal, 2018, 82, 2250-2252.	1.6	3
90	A case of Mycobacterium chelonae mediastinitis and acute humoral rejection after heart transplantation. Journal of Cardiac Surgery, 2019, 34, 205-207.	0.7	3

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91	Surgical Resection and Pazopanib Treatment for Recurrent Cardiac Angiosarcoma. BMC Clinical Pathology, 2019, 12, 2632010X1983126.	1.7	3
92	Autologous skeletal myoblast patch implantation prevents the deterioration of myocardial ischemia and right heart dysfunction in a pressure-overloaded right heart porcine model. PLoS ONE, 2021, 16, e0247381.	2.5	3
93	New cell delivery system CellSaic with adipose-derived stromal cells promotes functional angiogenesis in critical limb ischemia model mice. Journal of Artificial Organs, 2021, 24, 343-350.	0.9	3
94	Rapid and sensitive mycoplasma detection system using image-based deep learning. Journal of Artificial Organs, 2022, 25, 50-58.	0.9	3
95	Effect of Diabetes Mellitus on Outcomes in Patients With Left Ventricular Assist Device—Analysis of Data From a Japanese National Database. Circulation Journal, 2022, 86, 1950-1958.	1.6	3
96	Successful limb salvage through staged bypass combined with free gracilis muscle transfer for critical limb ischemia with osteomyelitis after failed endovascular therapy. Surgical Case Reports, 2018, 4, 40.	0.6	2
97	Transcatheter aortic valve replacement as a bridge to surgical aortic valve replacement in a younger patient with extremely high surgical risk. Journal of Cardiac Surgery, 2021, 36, 386-389.	0.7	2
98	A novel prostaglandin I2 agonist, ONO-1301, attenuates liver inflammation and suppresses fibrosis in non-alcoholic steatohepatitis model mice. Inflammation and Regeneration, 2022, 42, 3.	3.7	2
99	Intravenous retro-uterine echographic surveillance of the foetus during surgical thrombectomy for life-threatening pulmonary thromboembolism. European Journal of Cardio-thoracic Surgery, 2017, 52, 995-997.	1.4	1
100	Development of Myoblast Cell-Sheet Transplantation Therapy “Heart Sheet” for Advanced Cardiovascular Disease. Iryo To Shakai, 2018, 28, 93-102.	0.1	1
101	The ideal way to design clinical trials and establishment of evidence for human cellular and tissue-based products in Japan. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 905-907.	2.7	1
102	Surgical Results for Infective Endocarditis Complicated With Cardiogenic Shock. Circulation Journal, 2020, 84, 926-934.	1.6	1
103	A case of pediatric acute fulminant myocarditis, who could become a candidate for heart transplantation with an implantable left ventricular assist device (LVAD), after five months of intensive care using bilateral extracorporeal circulatory assists. Journal of the Japanese Society of Intensive Care Medicine, 2016, 23, 405-408.	0.0	1
104	Molecular Mechanism Underlying Heterotaxy and Cardiac Isomerism. Nihon Shoni Junkanki Gakkai Zasshi = Pediatric Cardiology and Cardiac Surgery, 2017, 33, 349-361.	0.0	1
105	Perioperative Enteral Nutrition After Left Ventricular Assist Device Implantation. Nutrition and Metabolic Insights, 2018, 11, 117863881881039.	1.9	0
106	Formation of aortopulmonary collateral arteries during prolonged extracorporeal membrane oxygenation. European Journal of Cardio-thoracic Surgery, 2020, 57, 195-195.	1.4	0
107	A CASE OF RE-MITRAL VALVE REPLACEMENT (MVR) FOLLOWING SPLENECTOMY FOR THROMBOCYTOPENIA DUE TO HYPERSPLENISM. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association), 2003, 64, 603-607.	0.0	0
108	Proteoglycan Expression During the Neointima Formation After Stent Implantation in Normal and Atherosclerotic Rabbit Aorta. The Journal of Japan Atherosclerosis Society, 1997, 24, 565-568.	0.0	0

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109	Chimerism through the activation of invariant natural killer T cells prolongs graft survival after transplantation of induced pluripotent stem cell-derived allogeneic cardiomyocytes. PLoS ONE, 2022, 17, e0264317.	2.5	0