Hidekazu Sekine

List of Publications by Year
in descending order

43	4,387	304368 22	243296 44
papers	citations	h-index	g-index

46	46	46	3993
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cell sheet engineering: Recreating tissues without biodegradable scaffolds. Biomaterials, 2005, 26, 6415-6422.	5.7	571
2	Polysurgery of cell sheet grafts overcomes diffusion limits to produce thick, vascularized myocardial tissues. FASEB Journal, 2006, 20, 708-710.	0.2	457
3	Reconstruction of functional tissues with cell sheet engineering. Biomaterials, 2007, 28, 5033-5043.	5.7	444
4	In vitro fabrication of functional three-dimensional tissues with perfusable blood vessels. Nature Communications, 2013, 4, 1399.	5.8	387
5	Endothelial Cell Coculture Within Tissue-Engineered Cardiomyocyte Sheets Enhances Neovascularization and Improves Cardiac Function of Ischemic Hearts. Circulation, 2008, 118, S145-52.	1.6	357
6	Fabrication of functional three-dimensional tissues by stacking cell sheets in vitro. Nature Protocols, 2012, 7, 850-858.	5.5	334
7	In Vitro Engineering of Vascularized Tissue Surrogates. Scientific Reports, 2013, 3, 1316.	1.6	255
8	Cardiac Cell Sheet Transplantation Improves Damaged Heart Function via Superior Cell Survival in Comparison with Dissociated Cell Injection. Tissue Engineering - Part A, 2011, 17, 2973-2980.	1.6	251
9	Long-Term Survival and Growth of Pulsatile Myocardial Tissue Grafts Engineered by the Layering of Cardiomyocyte Sheets. Tissue Engineering, 2006, 12, 499-507.	4.9	206
10	Cell delivery in regenerative medicine: The cell sheet engineering approach. Journal of Controlled Release, 2006, 116, 193-203.	4.8	197
11	Pulsatile Myocardial Tubes Fabricated With Cell Sheet Engineering. Circulation, 2006, 114, I-87-I-93.	1.6	117
12	Cell Sheet-Based Myocardial Tissue Engineering: New Hope for Damaged Heart Rescue. Current Pharmaceutical Design, 2009, 15, 2807-2814.	0.9	106
13	Cardiomyocyte Bridging Between Hearts and Bioengineered Myocardial Tissues With Mesenchymal Transition of Mesothelial Cells. Journal of Heart and Lung Transplantation, 2006, 25, 324-332.	0.3	83
14	Dynamic sealing of lung air leaks by the transplantation of tissue engineered cell sheets. Biomaterials, 2007, 28, 4294-4302.	5.7	74
15	Three-dimensional functional human myocardial tissues fabricated from induced pluripotent stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 926-935.	1.3	54
16	Functional closure of visceral pleural defects by autologous tissue engineered cell sheetsâ˜†. European Journal of Cardio-thoracic Surgery, 2008, 34, 864-869.	0.6	51
17	Tubular Cardiac Tissues Derived from Human Induced Pluripotent Stem Cells Generate Pulse Pressure In Vivo. Scientific Reports, 2017, 7, 45499.	1.6	48
18	Therapeutic Angiogenesis Using Tissue Engineered Human Smooth Muscle Cell Sheets. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 637-643.	1.1	45

#	Article	IF	Citations
19	Local Release of VEGF Using Fiber Mats Enables Effective Transplantation of Layered Cardiomyocyte Sheets. Macromolecular Bioscience, 2017, 17, 1700073.	2.1	45
20	Allogeneic adipose-derived mesenchymal stem cell sheet that produces neurological improvement with angiogenesis and neurogenesis in a rat stroke model. Journal of Neurosurgery, 2020, 132, 442-455.	0.9	44
21	In vivovascularization of cell sheets provided better long-term tissue survival than injection of cell suspension. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 700-710.	1.3	38
22	TRPV-1-mediated elimination of residual iPS cells in bioengineered cardiac cell sheet tissues. Scientific Reports, 2016, 6, 21747.	1.6	35
23	A novel method to align cells in a cardiac tissueâ€like construct fabricated by cell sheetâ€based tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 944-954.	1.3	25
24	Myocardial tissue engineering: toward a bioartificial pump. Cell and Tissue Research, 2012, 347, 775-782.	1.5	23
25	In vivo 3D analysis with micro-computed tomography of rat calvaria bone regeneration using periosteal cell sheets fabricated on temperature-responsive culture dishes. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, 483-490.	1.3	20
26	Autologous Skeletal Myoblast Sheet Therapy for Porcine Myocardial Infarction without Increasing Risk of Arrhythmia. Cell Medicine, 2014, 6, 99-109.	5.0	18
27	Capillary Networks for Bio-Artificial Three-Dimensional Tissues Fabricated Using Cell Sheet Based Tissue Engineering. International Journal of Molecular Sciences, 2021, 22, 92.	1.8	14
28	Generation of a large-scale vascular bed for the inÂvitro creation of three-dimensional cardiac tissue. Regenerative Therapy, 2019, 11, 316-323.	1.4	13
29	Mesenchymal Stem Cell Sheets Exert Antistenotic Effects in a Rat Arterial Injury Model. Tissue Engineering - Part A, 2018, 24, 1545-1553.	1.6	11
30	Myoblast cell sheet transplantation enhances the endogenous regenerative abilities of infant hearts in rats with myocardial infarction. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1897-1906.	1.3	9
31	Intermittent application of external positive pressure helps to preserve organ viability during ex vivo perfusion and culture. Journal of Artificial Organs, 2020, 23, 36-45.	0.4	8
32	Ex Vivo Prefabricated Rat Skin Flap Using Cell Sheets and an Arteriovenous Vascular Bundle. Plastic and Reconstructive Surgery - Global Open, 2015, 3, e424.	0.3	6
33	Grand Espoir: Robotics in Regenerative Medicine. Journal of Robotics and Mechatronics, 2007, 19, 500-505.	0.5	6
34	Cell sheet engineering for regenerative medicine: From the viewpoint of inflammation. Inflammation and Regeneration, 2007, 27, 156-164.	1.5	6
35	Bioartificial pleura using allogenic cell sheet for closing of lung air leakage. JTCVS Techniques, 2020, 4, 336-340.	0.2	5
36	Perfusable vascular tree like construction in 3D cell-dense tissues using artificial vascular bed. Microvascular Research, 2022, 141, 104321.	1.1	5

#	Article	IF	Citations
37	Engineering of functional cardiac tubes by stepwise transplantation of cardiac cell sheets onto intestinal mesentery. Heart and Vessels, 2020, 35, 859-867.	0.5	4
38	Bioartificial pulsatile cuffs fabricated from human induced pluripotent stem cell-derived cardiomyocytes using a pre-vascularization technique. Npj Regenerative Medicine, 2022, 7, 22.	2.5	4
39	Tracing behavior of endothelial cells promotes vascular network formation. Microvascular Research, 2016, 105, 125-131.	1.1	3
40	A novel alveolar epithelial cell sheet fabricated under feeder-free conditions for potential use in pulmonary regenerative therapy. Regenerative Therapy, 2022, 19, 113-121.	1.4	2
41	Myocardial tissue reconstruction: The cell sheet engineering approach. Inflammation and Regeneration, 2007, 27, 171-176.	1.5	1
42	Sticker method for preparation of frozen section using adhesive film. Journal of Neuroscience Methods, 2019, 328, 108436.	1.3	1
43	Continuous measurement of surface electrical potentials from transplanted cardiomyocyte tissue derived from human-induced pluripotent stem cells under physiological conditions in vivo. Heart and Vessels, 2021, 36, 899-909.	0.5	1