

# Yusuke Sakai

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

894  
citations

623188

14  
h-index

476904

29  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1249  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel hepatocyte culture system developed using microfabrication and collagen/polyethylene glycol microcontact printing. <i>Biomaterials</i> , 2006, 27, 1061-1070.	5.7	161
2	Technique for the control of spheroid diameter using microfabricated chips. <i>Acta Biomaterialia</i> , 2007, 3, 1033-1040.	4.1	91
3	Comparative Analysis of Gene Expression in Rat Liver Tissue and Monolayer- and Spheroid-Cultured Hepatocytes. <i>Cells Tissues Organs</i> , 2010, 191, 281-288.	1.3	67
4	Vascularized subcutaneous human liver tissue from engineered hepatocyte/fibroblast sheets in mice. <i>Biomaterials</i> , 2015, 65, 66-75.	5.7	58
5	Embryoid body culture of mouse embryonic stem cells using microwell and micropatterned chips. <i>Journal of Bioscience and Bioengineering</i> , 2011, 111, 85-91.	1.1	51
6	Exploiting synergistic effect of externally loaded bFGF and endogenous growth factors for accelerated wound healing using heparin functionalized PCL/gelatin co-spun nanofibrous patches. <i>Chemical Engineering Journal</i> , 2021, 404, 126518.	6.6	51
7	Micropatterned organoid culture of rat hepatocytes and HepG2 cells. <i>Journal of Bioscience and Bioengineering</i> , 2008, 106, 237-242.	1.1	46
8	A Method for Performing Islet Transplantation Using Tissue-Engineered Sheets of Islets and Mesenchymal Stem Cells. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 1205-1215.	1.1	44
9	Toycamycin attenuates free fatty acid-induced hepatic steatosis and apoptosis in cultured hepatocytes and ameliorates nonalcoholic fatty liver disease in mice. <i>PLoS ONE</i> , 2017, 12, e0170591.	1.1	32
10	Efficacy of Multilayered Hepatocyte Sheet Transplantation for Radiation-Induced Liver Damage and Partial Hepatectomy in a Rat Model. <i>Cell Transplantation</i> , 2016, 25, 549-558.	1.2	29
11	Rapid Fabricating Technique for Multi-Layered Human Hepatic Cell Sheets by Forceful Contraction of the Fibroblast Monolayer. <i>PLoS ONE</i> , 2013, 8, e70970.	1.1	23
12	Detachably assembled microfluidic device for perfusion culture and post-culture analysis of a spheroid array. <i>Biotechnology Journal</i> , 2014, 9, 971-979.	1.8	23
13	Alkoxyresorufin O-dealkylase assay using a rat hepatocyte spheroid microarray. <i>Journal of Bioscience and Bioengineering</i> , 2010, 109, 395-399.	1.1	18
14	An engineered cell sheet composed of human islets and human fibroblast, bone marrow-derived mesenchymal stem cells, or adipose-derived mesenchymal stem cells: An in vitro comparison study. <i>Islets</i> , 2018, 10, e1445948.	0.9	17
15	Human Fibroblast Sheet Promotes Human Pancreatic Islet Survival and Function in Vitro. <i>Cell Transplantation</i> , 2016, 25, 1525-1537.	1.2	15
16	Controlled cell morphology and liver-specific function of engineered primary hepatocytes by fibroblast layer cell densities. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 249-257.	1.1	15
17	Cell sheet technology for the regeneration of gastrointestinal tissue using a novel gastric perforation rat model. <i>Surgery Today</i> , 2017, 47, 114-121.	0.7	12
18	In vivo construction of liver tissue by implantation of a hepatic non-parenchymal/adipose-derived stem cell sheet. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e287-e295.	1.3	12

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19	How to prevent contamination with <i>Candida albicans</i> during the fabrication of transplantable oral mucosal epithelial cell sheets. <i>Regenerative Therapy</i> , 2015, 1, 1-4.	1.4	11
20	Fabrication of Functional Cell Sheets with Human Thyrocytes from Non-Tumorous Thyroid Tissue. <i>Tissue Engineering and Regenerative Medicine</i> , 2019, 16, 491-499.	1.6	10
21	A stable protocol for the fabrication of transplantable human oral mucosal epithelial cell sheets for clinical application. <i>Regenerative Therapy</i> , 2020, 14, 87-94.	1.4	10
22	Bioengineering of a CLIP $\alpha$ -derived tubular biliary $\alpha$ -duct $\alpha$ -like structure for bile transport in vitro. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2572-2584.	1.7	9
23	Effect of cell spot sizes on micropatterned cultures of rat hepatocytes. <i>Biochemical Engineering Journal</i> , 2010, 53, 85-91.	1.8	8
24	Transplanted fibroblast cell sheets promote migration of hepatic progenitor cells in the incised host liver in allogeneic rat model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, E108-E115.	1.3	7
25	Differentiation of chemically induced liver progenitor cells to cholangiocytes: Investigation of the optimal conditions. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 545-552.	1.1	7
26	Generating tissue-engineered intestinal epithelium from cultured Lgr5 stem cells in vivo. <i>Regenerative Therapy</i> , 2016, 5, 46-48.	1.4	6
27	Time $\alpha$ -dependent structural and functional characterization of subcutaneous human liver tissue. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2287-2298.	1.3	6
28	Development of Bifunctional Three-Dimensional Cysts from Chemically Induced Liver Progenitors. <i>Stem Cells International</i> , 2019, 2019, 1-13.	1.2	6
29	Chemical conversion of aged hepatocytes into bipotent liver progenitor cells. <i>Hepatology Research</i> , 2021, 51, 323-335.	1.8	6
30	Creation of a novel lipid-trehalose derivative showing positive interaction with the cell membrane and verification of its cytoprotective effect during cryopreservation. <i>Journal of Bioscience and Bioengineering</i> , 2021, 132, 71-80.	1.1	6
31	Rapid production of engineered human primary hepatocyte/fibroblast sheets. <i>Data in Brief</i> , 2015, 5, 498-501.	0.5	5
32	Equal distribution of mesenchymal stem cells after hepatic ischemia $\alpha$ -reperfusion injury. <i>Journal of Surgical Research</i> , 2016, 203, 360-367.	0.8	5
33	Spontaneous hepatocyte migration towards an endothelial cell tube network. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1767-e1771.	1.3	5
34	Functional changes of cocultured hepatocyte sheets subjected to continuous liver regeneration stimulation in cDNA-uPA/SCID mouse: Differences in transplantation sites. <i>Regenerative Therapy</i> , 2021, 18, 7-11.	1.4	5
35	Successful induction of human chemically induced liver progenitors with small molecules from damaged liver. <i>Journal of Gastroenterology</i> , 2022, 57, 441-452.	2.3	5
36	Subcutaneous transplantation of engineered islet/adipose-derived mesenchymal stem cell sheets in diabetic pigs with total pancreatectomy. <i>Regenerative Therapy</i> , 2021, 16, 42-52.	1.4	4

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37	Bile duct reconstruction using scaffold-free tubular constructs created by Bio-3D printer. <i>Regenerative Therapy</i> , 2021, 16, 81-89.	1.4	3
38	The Relationship Between Lymphangiogenesis and Liver Regeneration After Partial Hepatectomy in Cholestatic Mice. <i>Lymphatic Research and Biology</i> , 2020, 18, 322-328.	0.5	2
39	Role of HGF for reprogramming human liver progenitor cells: Non-essential but stimulative supplement. <i>Journal of Hepatology</i> , 2019, 71, 438-439.	1.8	1
40	A Modified Method for Purifying Gallbladder Epithelial Cells Using Fluorescence-activated Cell Sorting. <i>In Vivo</i> , 2017, 31, 169-174.	0.6	1
41	Promotion of Cyst Formation from a Renal Stem Cell Line Using Organ-Specific Extracellular Matrix Gel Format Culture System. <i>Gels</i> , 2022, 8, 312.	2.1	1
42	In vitro and in vivo fabrication of stable human hepatocyte tissue in combination with normal fibroblasts derived from donors of various ages. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 766-772.	1.1	0
43	Cover Image, Volume 118, Number 7, July 2021. <i>Biotechnology and Bioengineering</i> , 2021, 118, i.	1.7	0