

# Hirotake Komatsu

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

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citations

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839512

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docs citations

20  
times ranked

370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen environment and islet size are the primary limiting factors of isolated pancreatic islet survival. PLoS ONE, 2017, 12, e0183780.	2.5	99
2	Impact of Oxygen on Pancreatic Islet Survival. Pancreas, 2018, 47, 533-543.	1.1	58
3	Posttransplant oxygen inhalation improves the outcome of subcutaneous islet transplantation: A promising clinical alternative to the conventional intrahepatic site. American Journal of Transplantation, 2018, 18, 832-842.	4.7	34
4	Isolated human islets require hyperoxia to maintain islet mass, metabolism, and function. Biochemical and Biophysical Research Communications, 2016, 470, 534-538.	2.1	30
5	Semi-Automated Assessment of Human Islet Viability Predicts Transplantation Outcomes in a Diabetic Mouse Model. Cell Transplantation, 2020, 29, 096368972091944.	2.5	19
6	Optimizing Temperature and Oxygen Supports Long-term Culture of Human Islets. Transplantation, 2019, 103, 299-306.	1.0	17
7	A subcutaneous pancreatic islet transplantation platform using a clinically applicable, biodegradable Vicryl mesh scaffold –an experimental study. Transplant International, 2020, 33, 806-818.	1.6	16
8	Determination of Islet Viability Using a Zinc-Specific Fluorescent Dye and a Semiautomated Assessment Method. Cell Transplantation, 2016, 25, 1777-1786.	2.5	14
9	Oxygen transporter for the hypoxic transplantation site. Biofabrication, 2019, 11, 015011.	7.1	10
10	A Multiparametric Assessment of Human Islets Predicts Transplant Outcomes in Diabetic Mice. Cell Transplantation, 2021, 30, 096368972110522.	2.5	10
11	Isolated pancreatic islet yield and quality is inversely related to organ donor age in rats. Experimental Gerontology, 2019, 128, 110739.	2.8	8
12	High Fractions of Large Islets in Human Islet Preparations Detrimentally Affect Posttransplant Outcomes in Streptozotocin-Induced Diabetic Immunodeficient Mice. Pancreas, 2020, 49, 650-654.	1.1	8
13	Oxygenated thawing and rewarming alleviate rewarming injury of cryopreserved pancreatic islets. Biochemical and Biophysical Research Communications, 2017, 486, 817-823.	2.1	7
14	MEMS oxygen transport device for islet transplantation in the subcutaneous site. Micro and Nano Letters, 2016, 11, 632-635.	1.3	6
15	Surfactants Improve Live Cell Imaging of Human Pancreatic Islets. Pancreas, 2018, 47, 1093-1100.	1.1	5
16	Intermittent normobaric oxygen inhalation enhances subcutaneous prevascularization for cell transplantation. Microvascular Research, 2020, 132, 104070.	2.5	5
17	Early-Phase Luciferase Signals of Islet Grafts Predicts Successful Subcutaneous Site Transplantation in Rats. Molecular Imaging and Biology, 2021, 23, 173-179.	2.6	5
18	Pharmacological strategies for protection of extrahepatic islet transplantation. Minerva Endocrinologica, 2015, 40, 85-103.	1.8	5

#	ARTICLE	IF	CITATIONS
19	Critical Considerations in Bioluminescence Imaging of Transplanted Islets. <i>Pancreas</i> , 2022, 51, 234-242.	1.1	2
20	Oxygen-Transporting Parylene-HT Mesh for Cell Transplantation to Reduce Hypoxia. , 2021, , .		0