

Jeffrey R Millman

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

4,330
citations

361413

20
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

4721
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of Functional Human Pancreatic β Cells In Vitro. Cell, 2014, 159, 428-439.	28.9	1,643
2	Long-term glyceimic control using polymer-encapsulated human stem cell-derived beta cells in immune-competent mice. Nature Medicine, 2016, 22, 306-311.	30.7	564
3	Generation of stem cell-derived β -cells from patients with type 1 diabetes. Nature Communications, 2016, 7, 11463.	12.8	280
4	Acquisition of Dynamic Function in Human Stem Cell-Derived β Cells. Stem Cell Reports, 2019, 12, 351-365.	4.8	264
5	Differentiated human stem cells resemble fetal, not adult, β cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3038-3043.	7.1	259
6	Targeting the cytoskeleton to direct pancreatic differentiation of human pluripotent stem cells. Nature Biotechnology, 2020, 38, 460-470.	17.5	215
7	Anisotropic particle synthesis in dielectrophoretically controlled microdroplet reactors. Nature Materials, 2004, 4, 98-102.	27.5	205
8	Gene-edited human stem cell-derived β cells from a patient with monogenic diabetes reverse preexisting diabetes in mice. Science Translational Medicine, 2020, 12, .	12.4	123
9	Single-Cell Transcriptome Profiling Reveals β Cell Maturation in Stem Cell-Derived Islets after Transplantation. Cell Reports, 2020, 32, 108067.	6.4	103
10	Autologous Pluripotent Stem Cell-Derived β -Like Cells for Diabetes Cellular Therapy. Diabetes, 2017, 66, 1111-1120.	0.6	74
11	Generation of insulin-producing pancreatic β cells from multiple human stem cell lines. Nature Protocols, 2021, 16, 4109-4143.	12.0	72
12	A nanofibrous encapsulation device for safe delivery of insulin-producing cells to treat type 1 diabetes. Science Translational Medicine, 2021, 13, .	12.4	68
13	Effects of oxygen on mouse embryonic stem cell growth, phenotype retention, and cellular energetics. Biotechnology and Bioengineering, 2008, 101, 241-254.	3.3	67
14	Economic 3D-printing approach for transplantation of human stem cell-derived β -like cells. Biofabrication, 2017, 9, 015002.	7.1	65
15	The effects of low oxygen on self-renewal and differentiation of embryonic stem cells. Current Opinion in Organ Transplantation, 2009, 14, 694-700.	1.6	64
16	Applications of iPSC-derived beta cells from patients with diabetes. Cell Reports Medicine, 2021, 2, 100238.	6.5	51
17	Advances Toward Engineering Functionally Mature Human Pluripotent Stem Cell-Derived β Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 786.	4.1	43
18	A hydrogel platform for in vitro three dimensional assembly of human stem cell-derived islet cells and endothelial cells. Acta Biomaterialia, 2019, 97, 272-280.	8.3	35

#	ARTICLE	IF	CITATIONS
19	SIX2 Regulates Human \hat{I}^2 Cell Differentiation from Stem Cells and Functional Maturation In Vitro. Cell Reports, 2020, 31, 107687.	6.4	34
20	Design Considerations for Macroencapsulation Devices for Stem Cell Derived Islets for the Treatment of Type 1 Diabetes. Advanced Science, 2021, 8, e2100820.	11.2	24
21	Accurate control of oxygen level in cells during culture on silicone rubber membranes with application to stem cell differentiation. Biotechnology Progress, 2010, 26, 805-818.	2.6	20
22	Engineering microenvironments for embryonic stem cell differentiation to cardiomyocytes. Regenerative Medicine, 2009, 4, 721-732.	1.7	17
23	Differential Function and Maturation of Human Stem Cell-Derived Islets After Transplantation. Stem Cells Translational Medicine, 2022, 11, 322-331.	3.3	17
24	Single-cell RNA sequencing for engineering and studying human islets. Current Opinion in Biomedical Engineering, 2020, 16, 27-33.	3.4	11
25	Measurement of Energy Metabolism in Explanted Retinal Tissue Using Extracellular Flux Analysis. Journal of Visualized Experiments, 2019, , .	0.3	7
26	Mouse Pluripotent Stem Cell Differentiation Under Physiological Oxygen Reduces Residual Teratomas. Cellular and Molecular Bioengineering, 2021, 14, 555-567.	2.1	2