

# 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	Differential Function and Maturation of Human Stem Cell-Derived Islets After Transplantation. <i>Stem Cells Translational Medicine</i> , 2022, 11, 322-331.	3.3	17
2	Applications of iPSC-derived beta cells from patients with diabetes. <i>Cell Reports Medicine</i> , 2021, 2, 100238.	6.5	51
3	A nanofibrous encapsulation device for safe delivery of insulin-producing cells to treat type 1 diabetes. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	68
4	Design Considerations for Macroencapsulation Devices for Stem Cell Derived Islets for the Treatment of Type 1 Diabetes. <i>Advanced Science</i> , 2021, 8, e2100820.	11.2	24
5	Mouse Pluripotent Stem Cell Differentiation Under Physiological Oxygen Reduces Residual Teratomas. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 555-567.	2.1	2
6	Generation of insulin-producing pancreatic $\beta^2$ cells from multiple human stem cell lines. <i>Nature Protocols</i> , 2021, 16, 4109-4143.	12.0	72
7	Single-Cell Transcriptome Profiling Reveals $\beta^2$ Cell Maturation in Stem Cell-Derived Islets after Transplantation. <i>Cell Reports</i> , 2020, 32, 108067.	6.4	103
8	Advances Toward Engineering Functionally Mature Human Pluripotent Stem Cell-Derived $\beta^2$ Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 786.	4.1	43
9	SIX2 Regulates Human $\beta^2$ Cell Differentiation from Stem Cells and Functional Maturation In Vitro. <i>Cell Reports</i> , 2020, 31, 107687.	6.4	34
10	Single-cell RNA sequencing for engineering and studying human islets. <i>Current Opinion in Biomedical Engineering</i> , 2020, 16, 27-33.	3.4	11
11	Targeting the cytoskeleton to direct pancreatic differentiation of human pluripotent stem cells. <i>Nature Biotechnology</i> , 2020, 38, 460-470.	17.5	215
12	Gene-edited human stem cell-derived $\beta^2$ cells from a patient with monogenic diabetes reverse preexisting diabetes in mice. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	123
13	A hydrogel platform for in vitro three dimensional assembly of human stem cell-derived islet cells and endothelial cells. <i>Acta Biomaterialia</i> , 2019, 97, 272-280.	8.3	35
14	Measurement of Energy Metabolism in Explanted Retinal Tissue Using Extracellular Flux Analysis. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	7
15	Acquisition of Dynamic Function in Human Stem Cell-Derived $\beta^2$ Cells. <i>Stem Cell Reports</i> , 2019, 12, 351-365.	4.8	264
16	Autologous Pluripotent Stem Cell-Derived $\beta^2$ -Like Cells for Diabetes Cellular Therapy. <i>Diabetes</i> , 2017, 66, 1111-1120.	0.6	74
17	Economic 3D-printing approach for transplantation of human stem cell-derived $\beta^2$ -like cells. <i>Biofabrication</i> , 2017, 9, 015002.	7.1	65
18	Generation of stem cell-derived $\beta^2$ -cells from patients with type 1 diabetes. <i>Nature Communications</i> , 2016, 7, 11463.	12.8	280

#	ARTICLE	IF	CITATIONS
19	Long-term glycemic control using polymer-encapsulated human stem cell-derived beta cells in immune-competent mice. <i>Nature Medicine</i> , 2016, 22, 306-311.	30.7	564
20	Generation of Functional Human Pancreatic $\beta^2$ Cells In Vitro. <i>Cell</i> , 2014, 159, 428-439.	28.9	1,643
21	Differentiated human stem cells resemble fetal, not adult, $\beta^2$ cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3038-3043.	7.1	259
22	Accurate control of oxygen level in cells during culture on silicone rubber membranes with application to stem cell differentiation. <i>Biotechnology Progress</i> , 2010, 26, 805-818.	2.6	20
23	Engineering microenvironments for embryonic stem cell differentiation to cardiomyocytes. <i>Regenerative Medicine</i> , 2009, 4, 721-732.	1.7	17
24	The effects of low oxygen on self-renewal and differentiation of embryonic stem cells. <i>Current Opinion in Organ Transplantation</i> , 2009, 14, 694-700.	1.6	64
25	Effects of oxygen on mouse embryonic stem cell growth, phenotype retention, and cellular energetics. <i>Biotechnology and Bioengineering</i> , 2008, 101, 241-254.	3.3	67
26	Anisotropic particle synthesis in dielectrophoretically controlled microdroplet reactors. <i>Nature Materials</i> , 2004, 4, 98-102.	27.5	205