

Timo Otonkoski

List of Publications by Year in descending order

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76
papers

6,465
citations

101543

36
h-index

71685

76
g-index

88
all docs

88
docs citations

88
times ranked

9543
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of human embryonic stem cell lines by the International Stem Cell Initiative. <i>Nature Biotechnology</i> , 2007, 25, 803-816.	17.5	983
2	Copy number variation and selection during reprogramming to pluripotency. <i>Nature</i> , 2011, 471, 58-62.	27.8	870
3	Activating germline mutations in STAT3 cause early-onset multi-organ autoimmune disease. <i>Nature Genetics</i> , 2014, 46, 812-814.	21.4	411
4	IL-17 Immunity in Human Type 1 Diabetes. <i>Journal of Immunology</i> , 2010, 185, 1959-1967.	0.8	255
5	Autoimmunity, hypogammaglobulinemia, lymphoproliferation, and mycobacterial disease in patients with activating mutations in STAT3. <i>Blood</i> , 2015, 125, 639-648.	1.4	229
6	Characterization of Endocrine Progenitor Cells and Critical Factors for Their Differentiation in Human Adult Pancreatic Cell Culture. <i>Diabetes</i> , 2003, 52, 2007-2015.	0.6	227
7	Physical Exercise-Induced Hypoglycemia Caused by Failed Silencing of Monocarboxylate Transporter 1 in Pancreatic β^2 Cells. <i>American Journal of Human Genetics</i> , 2007, 81, 467-474.	6.2	213
8	Genetic Variability Overrides the Impact of Parental Cell Type and Determines iPSC Differentiation Potential. <i>Stem Cell Reports</i> , 2016, 6, 200-212.	4.8	211
9	MANF Is Indispensable for the Proliferation and Survival of Pancreatic β^2 Cells. <i>Cell Reports</i> , 2014, 7, 366-375.	6.4	161
10	Conditionally Stabilized dCas9 Activator for Controlling Gene Expression in Human Cell Reprogramming and Differentiation. <i>Stem Cell Reports</i> , 2015, 5, 448-459.	4.8	158
11	Physical Exercise-Induced Hyperinsulinemic Hypoglycemia Is an Autosomal-Dominant Trait Characterized by Abnormal Pyruvate-Induced Insulin Release. <i>Diabetes</i> , 2003, 52, 199-204.	0.6	135
12	Functional, metabolic and transcriptional maturation of human pancreatic islets derived from stem cells. <i>Nature Biotechnology</i> , 2022, 40, 1042-1055.	17.5	135
13	Human pluripotent reprogramming with CRISPR activators. <i>Nature Communications</i> , 2018, 9, 2643.	12.8	128
14	Insulin mutations impair beta-cell development in a patient-derived iPSC model of neonatal diabetes. <i>ELife</i> , 2018, 7, .	6.0	114
15	Growth Factor-Mediated Proliferation and Differentiation of Insulin-Producing INS-1 and RINm5F Cells: Identification of Betacellulin as a Novel β^2 -Cell Mitogen*. <i>Endocrinology</i> , 1998, 139, 1494-1499.	2.8	112
16	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. <i>Nature Genetics</i> , 2019, 51, 1596-1606.	21.4	96
17	An Activating STAT3 Mutation Causes Neonatal Diabetes through Premature Induction of Pancreatic Differentiation. <i>Cell Reports</i> , 2017, 19, 281-294.	6.4	94
18	Pancreatic β^2 -cell tRNA hypomethylation and fragmentation link TRMT10A deficiency with diabetes. <i>Nucleic Acids Research</i> , 2018, 46, 10302-10318.	14.5	93

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19	Downregulation of EGF Receptor Signaling in Pancreatic Islets Causes Diabetes Due to Impaired Postnatal β -Cell Growth. <i>Diabetes</i> , 2006, 55, 3299-3308.	0.6	82
20	ErbB Signaling Regulates Lineage Determination of Developing Pancreatic Islet Cells in Embryonic Organ Culture. <i>Endocrinology</i> , 2002, 143, 4437-4446.	2.8	78
21	Noninvasive diagnosis of focal hyperinsulinism of infancy with [18F]-DOPA positron emission tomography. <i>Diabetes</i> , 2006, 55, 13-8.	0.6	76
22	mtDNA Mutagenesis Disrupts Pluripotent Stem Cell Function by Altering Redox Signaling. <i>Cell Reports</i> , 2015, 11, 1614-1624.	6.4	66
23	MANF protects human pancreatic beta cells against stress-induced cell death. <i>Diabetologia</i> , 2018, 61, 2202-2214.	6.3	66
24	Distinct differentiation characteristics of individual human embryonic stem cell lines. <i>BMC Developmental Biology</i> , 2006, 6, 40.	2.1	65
25	Comparative Analysis of Targeted Differentiation of Human Induced Pluripotent Stem Cells (hiPSCs) and Human Embryonic Stem Cells Reveals Variability Associated With Incomplete Transgene Silencing in Retrovirally Derived hiPSC Lines. <i>Stem Cells Translational Medicine</i> , 2013, 2, 83-93.	3.3	64
26	Combined negative effect of donor age and time in culture on the reprogramming efficiency into induced pluripotent stem cells. <i>Stem Cell Research</i> , 2015, 15, 254-262.	0.7	64
27	Activin A and Wnt-dependent specification of human definitive endoderm cells. <i>Experimental Cell Research</i> , 2013, 319, 2535-2544.	2.6	60
28	Pharmacological reactivation of MYC-dependent apoptosis induces susceptibility to anti-PD-1 immunotherapy. <i>Nature Communications</i> , 2019, 10, 620.	12.8	60
29	A Strong Contractile Actin Fence and Large Adhesions Direct Human Pluripotent Colony Morphology and Adhesion. <i>Stem Cell Reports</i> , 2017, 9, 67-76.	4.8	59
30	YIPF5 mutations cause neonatal diabetes and microcephaly through endoplasmic reticulum stress. <i>Journal of Clinical Investigation</i> , 2020, 130, 6338-6353.	8.2	58
31	MANF Is Required for the Postnatal Expansion and Maintenance of Pancreatic β -Cell Mass in Mice. <i>Diabetes</i> , 2019, 68, 66-80.	0.6	50
32	EGF- and TGF- β -Like Peptides in Human Fetal Gut. <i>Pediatric Research</i> , 1989, 26, 25-30.	2.3	47
33	Metabolic determination of cell fate through selective inheritance of mitochondria. <i>Nature Cell Biology</i> , 2022, 24, 148-154.	10.3	46
34	Concise Review: Human Pluripotent Stem Cells for the Modeling of Pancreatic β -Cell Pathology. <i>Stem Cells</i> , 2019, 37, 33-41.	3.2	45
35	In vitro insulin secretion by pancreatic tissue from infants with diazoxide-resistant congenital hyperinsulinism deviates from model predictions. <i>Journal of Clinical Investigation</i> , 2011, 121, 3932-3942.	8.2	44
36	Small Molecule Inhibitors Promote Efficient Generation of Induced Pluripotent Stem Cells From Human Skeletal Myoblasts. <i>Stem Cells and Development</i> , 2013, 22, 114-123.	2.1	40

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37	Weighing up β -cell mass in mice and humans: Self-renewal, progenitors or stem cells?. <i>Molecular and Cellular Endocrinology</i> , 2008, 288, 79-85.	3.2	39
38	Generation of iPSC line HEL24.3 from human neonatal foreskin fibroblasts. <i>Stem Cell Research</i> , 2015, 15, 266-268.	0.7	38
39	Early Detection of Peripheral Blood Cell Signature in Children Developing β -Cell Autoimmunity at a Young Age. <i>Diabetes</i> , 2019, 68, 2024-2034.	0.6	37
40	Loss of MANF Causes Childhood-Onset Syndromic Diabetes Due to Increased Endoplasmic Reticulum Stress. <i>Diabetes</i> , 2021, 70, 1006-1018.	0.6	37
41	Advanced Feeder-Free Generation of Induced Pluripotent Stem Cells Directly From Blood Cells. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1402-1409.	3.3	31
42	EGFR Signaling Promotes β -Cell Proliferation and Survivin Expression during Pregnancy. <i>PLoS ONE</i> , 2014, 9, e93651.	2.5	30
43	Patient-Specific Induced Pluripotent Stem Cell-Derived RPE Cells: Understanding the Pathogenesis of Retinopathy in Long-Chain 3-Hydroxyacyl-CoA Dehydrogenase Deficiency. , 2015, 56, 3371.		29
44	A Novel Feeder-Free Culture System for Human Pluripotent Stem Cell Culture and Induced Pluripotent Stem Cell Derivation. <i>PLoS ONE</i> , 2013, 8, e76205.	2.5	28
45	A Mouse Model of Human Hyperinsulinism Produced by the E1506K Mutation in the Sulphonylurea Receptor SUR1. <i>Diabetes</i> , 2013, 62, 3797-3806.	0.6	28
46	Clinical, Genetic, and Biochemical Characteristics of Early-Onset Diabetes in the Finnish Population. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 3018-3026.	3.6	28
47	Human pluripotent stem cell based islet models for diabetes research. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2015, 29, 899-909.	4.7	25
48	SUR1-mutant iPSC cell-derived islets recapitulate the pathophysiology of congenital hyperinsulinism. <i>Diabetologia</i> , 2021, 64, 630-640.	6.3	25
49	Selective MicroRNA-Offset RNA Expression in Human Embryonic Stem Cells. <i>PLoS ONE</i> , 2015, 10, e0116668.	2.5	25
50	Stem cells in the treatment of diabetes. <i>Annals of Medicine</i> , 2005, 37, 513-520.	3.8	24
51	ALS and Parkinson's disease genes CHCHD10 and CHCHD2 modify synaptic transcriptomes in human iPSC-derived motor neurons. <i>Neurobiology of Disease</i> , 2020, 141, 104940.	4.4	24
52	Intestinal Commitment and Maturation of Human Pluripotent Stem Cells Is Independent of Exogenous FGF4 and R-spondin1. <i>PLoS ONE</i> , 2015, 10, e0134551.	2.5	23
53	Maturation of beta cells: lessons from in vivo and in vitro models. <i>Diabetologia</i> , 2022, 65, 917-930.	6.3	21
54	Regulation of Human Pluripotent Stem Cell-Derived Hepatic Cell Phenotype by Three-Dimensional Hydrogel Models. <i>Tissue Engineering - Part A</i> , 2016, 22, 971-984.	3.1	20

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55	Genome editing of human pancreatic beta cell models: problems, possibilities and outlook. <i>Diabetologia</i> , 2019, 62, 1329-1336.	6.3	20
56	DUX4 is a multifunctional factor priming human embryonic genome activation. <i>IScience</i> , 2022, 25, 104137.	4.1	20
57	Insulin and Glucagon Secretory Responses to Arginine, Glucagon, and Theophylline During Perfusion of Human Fetal Islet-Like Cell Clusters*. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1988, 67, 734-740.	3.6	19
58	⁶⁸ Ga-NODAGA-Exendin-4 PET/CT Improves the Detection of Focal Congenital Hyperinsulinism. <i>Journal of Nuclear Medicine</i> , 2022, 63, 310-315.	5.0	19
59	p73 is required for appropriate BMP-induced mesenchymal-to-epithelial transition during somatic cell reprogramming. <i>Cell Death and Disease</i> , 2017, 8, e3034-e3034.	6.3	16
60	Generation of iPSC line HEL47.2 from healthy human adult fibroblasts. <i>Stem Cell Research</i> , 2015, 15, 263-265.	0.7	14
61	Long-Term Outcome and Treatment in Persistent and Transient Congenital Hyperinsulinism: A Finnish Population-Based Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 1542-1551.	3.6	14
62	CRISPR activation enables high-fidelity reprogramming into human pluripotent stem cells. <i>Stem Cell Reports</i> , 2022, 17, 413-426.	4.8	13
63	Generation of a SOX2 reporter human induced pluripotent stem cell line using CRISPR/SaCas9. <i>Stem Cell Research</i> , 2017, 22, 16-19.	0.7	11
64	Clinical and Genetic Characterization of 153 Patients with Persistent or Transient Congenital Hyperinsulinism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e1686-e1694.	3.6	11
65	Early-Onset Diabetic E1-DN Mice Develop Albuminuria and Glomerular Injury Typical of Diabetic Nephropathy. <i>BioMed Research International</i> , 2015, 2015, 1-11.	1.9	10
66	Screening enteroviruses for Î²-cell tropism using foetal porcine Î²-cells. <i>Journal of General Virology</i> , 2001, 82, 1909-1916.	2.9	10
67	Simultaneous high-efficiency base editing and reprogramming of patient fibroblasts. <i>Stem Cell Reports</i> , 2021, 16, 3064-3075.	4.8	8
68	PTPN2 Regulates the Interferon Signaling and Endoplasmic Reticulum Stress Response in Pancreatic Î²-Cells in Autoimmune Diabetes. <i>Diabetes</i> , 2022, 71, 653-668.	0.6	8
69	sept7b is required for the differentiation of pancreatic endocrine progenitors. <i>Scientific Reports</i> , 2016, 6, 24992.	3.3	5
70	Characterization of neural crest-derived stem cells isolated from human bone marrow for improvement of transplanted islet function. <i>Uppsala Journal of Medical Sciences</i> , 2019, 124, 228-237.	0.9	5
71	Generation of an OCT4 reporter human induced pluripotent stem cell line using CRISPR/SpCas9. <i>Stem Cell Research</i> , 2017, 23, 105-108.	0.7	4
72	New tools for experimental diabetes research: Cellular reprogramming and genome editing. <i>Uppsala Journal of Medical Sciences</i> , 2016, 121, 146-150.	0.9	3

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73	Kaposiâ€™s Sarcoma-Associated Herpesvirus Reactivation by Targeting of a dCas9-Based Transcription Activator to the ORF50 Promoter. <i>Viruses</i> , 2020, 12, 952.	3.3	3
74	Integrative genomics and transcriptomics analysis of human embryonic and induced pluripotent stem cells. <i>BioData Mining</i> , 2014, 7, 32.	4.0	2
75	Stem Cell Based Models in Congenital Hyperinsulinism â€“ Perspective on Practicalities and Possibilities. <i>Frontiers in Endocrinology</i> , 2022, 13, 837450.	3.5	2
76	Exercise-Induced Hyperinsulinism: A Failure of Monocarboxylate Transporter 1 Expression Silencing. <i>Frontiers in Diabetes</i> , 2012, , 172-181.	0.4	1