

Kazutoshi Takahashi

List of Publications by Year in descending order

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78
papers

59,479
citations

43973

48
h-index

85405

71
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93
all docs

93
docs citations

93
times ranked

44718
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction of Pluripotent Stem Cells from Mouse Embryonic and Adult Fibroblast Cultures by Defined Factors. <i>Cell</i> , 2006, 126, 663-676.	13.5	22,649
2	Induction of Pluripotent Stem Cells from Adult Human Fibroblasts by Defined Factors. <i>Cell</i> , 2007, 131, 861-872.	13.5	17,969
3	The Homeoprotein Nanog Is Required for Maintenance of Pluripotency in Mouse Epiblast and ES Cells. <i>Cell</i> , 2003, 113, 631-642.	13.5	2,892
4	Generation of induced pluripotent stem cells without Myc from mouse and human fibroblasts. <i>Nature Biotechnology</i> , 2008, 26, 101-106.	9.4	2,583
5	Suppression of induced pluripotent stem cell generation by the p53-p21 pathway. <i>Nature</i> , 2009, 460, 1132-1135.	13.7	1,220
6	Generation of Pluripotent Stem Cells from Adult Mouse Liver and Stomach Cells. <i>Science</i> , 2008, 321, 699-702.	6.0	967
7	Induction of pluripotent stem cells from fibroblast cultures. <i>Nature Protocols</i> , 2007, 2, 3081-3089.	5.5	945
8	Variation in the safety of induced pluripotent stem cell lines. <i>Nature Biotechnology</i> , 2009, 27, 743-745.	9.4	811
9	Hypoxia Enhances the Generation of Induced Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2009, 5, 237-241.	5.2	687
10	A decade of transcription factor-mediated reprogramming to pluripotency. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 183-193.	16.1	684
11	Modeling Alzheimer's Disease with iPSCs Reveals Stress Phenotypes Associated with Intracellular $A\beta^2$ and Differential Drug Responsiveness. <i>Cell Stem Cell</i> , 2013, 12, 487-496.	5.2	652
12	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , 2011, 29, 1132-1144.	9.4	509
13	Drug Screening for ALS Using Patient-Specific Induced Pluripotent Stem Cells. <i>Science Translational Medicine</i> , 2012, 4, 145ra104.	5.8	465
14	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2015, 17, 178-194.	5.2	428
15	Generation of retinal cells from mouse and human induced pluripotent stem cells. <i>Neuroscience Letters</i> , 2009, 458, 126-131.	1.0	402
16	Role of ERAs in promoting tumour-like properties in mouse embryonic stem cells. <i>Nature</i> , 2003, 423, 541-545.	13.7	305
17	Transient activation of c-MYC expression is critical for efficient platelet generation from human induced pluripotent stem cells. <i>Journal of Experimental Medicine</i> , 2010, 207, 2817-2830.	4.2	295
18	Monitoring and robust induction of nephrogenic intermediate mesoderm from human pluripotent stem cells. <i>Nature Communications</i> , 2013, 4, 1367.	5.8	266

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19	Fbx15 Is a Novel Target of Oct3/4 but Is Dispensable for Embryonic Stem Cell Self-Renewal and Mouse Development. <i>Molecular and Cellular Biology</i> , 2003, 23, 2699-2708.	1.1	252
20	Complete Genetic Correction of iPS Cells From Duchenne Muscular Dystrophy. <i>Molecular Therapy</i> , 2010, 18, 386-393.	3.7	238
21	Induced Pluripotent Stem Cells and Their Use in Human Models of Disease and Development. <i>Physiological Reviews</i> , 2019, 99, 79-114.	13.1	230
22	Induced pluripotent stem cells in medicine and biology. <i>Development (Cambridge)</i> , 2013, 140, 2457-2461.	1.2	220
23	Dynamic regulation of human endogenous retroviruses mediates factor-induced reprogramming and differentiation potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12426-12431.	3.3	220
24	Differentiation-defective phenotypes revealed by large-scale analyses of human pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20569-20574.	3.3	206
25	Generation of mouse-induced pluripotent stem cells with plasmid vectors. <i>Nature Protocols</i> , 2010, 5, 418-428.	5.5	200
26	Dental Pulp Cells for Induced Pluripotent Stem Cell Banking. <i>Journal of Dental Research</i> , 2010, 89, 773-778.	2.5	200
27	The let-7/LIN-41 Pathway Regulates Reprogramming to Human Induced Pluripotent Stem Cells by Controlling Expression of Prodifferentiation Genes. <i>Cell Stem Cell</i> , 2014, 14, 40-52.	5.2	200
28	Induction and Isolation of Vascular Cells From Human Induced Pluripotent Stem Cells—Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1100-1103.	1.1	183
29	Anti-A β Drug Screening Platform Using Human iPS Cell-Derived Neurons for the Treatment of Alzheimer's Disease. <i>PLoS ONE</i> , 2011, 6, e25788.	1.1	156
30	Adipogenic differentiation of human induced pluripotent stem cells: Comparison with that of human embryonic stem cells. <i>FEBS Letters</i> , 2009, 583, 1029-1033.	1.3	140
31	Roles of Sall4 in the generation of pluripotent stem cells from blastocysts and fibroblasts. <i>Genes To Cells</i> , 2009, 14, 683-694.	0.5	136
32	Cell Therapy Using Human Induced Pluripotent Stem Cell-Derived Renal Progenitors Ameliorates Acute Kidney Injury in Mice. <i>Stem Cells Translational Medicine</i> , 2015, 4, 980-992.	1.6	130
33	Present and future challenges of induced pluripotent stem cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140367.	1.8	118
34	Maturation, not initiation, is the major roadblock during reprogramming toward pluripotency from human fibroblasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12172-12179.	3.3	117
35	Induction and Enhancement of Cardiac Cell Differentiation from Mouse and Human Induced Pluripotent Stem Cells with Cyclosporin-A. <i>PLoS ONE</i> , 2011, 6, e16734.	1.1	116
36	Induction of pluripotency in human somatic cells via a transient state resembling primitive streak-like mesendoderm. <i>Nature Communications</i> , 2014, 5, 3678.	5.8	115

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37	Generation and Characterization of Human Induced Pluripotent Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , 2009, 9, Unit 4A.2.	3.0	114
38	Characterization of Dendritic Cells and Macrophages Generated by Directed Differentiation from Mouse Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2009, 27, 1021-1031.	1.4	107
39	Role of the phosphoinositide 3-kinase pathway in mouse embryonic stem (ES) cells. <i>Biochemical Society Transactions</i> , 2005, 33, 1522.	1.6	106
40	Involvement of ER Stress in Dysmyelination of Pelizaeus-Merzbacher Disease with PLP1 Missense Mutations Shown by iPSC-Derived Oligodendrocytes. <i>Stem Cell Reports</i> , 2014, 2, 648-661.	2.3	100
41	Derivation Conditions Impact X-Inactivation Status in Female Human Induced Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2012, 11, 91-99.	5.2	99
42	A developmental framework for induced pluripotency. <i>Development (Cambridge)</i> , 2015, 142, 3274-3285.	1.2	94
43	Human Induced Pluripotent Stem Cells on Autologous Feeders. <i>PLoS ONE</i> , 2009, 4, e8067.	1.1	91
44	Differential Membrane Localization of ERas and Rheb, Two Ras-related Proteins Involved in the Phosphatidylinositol 3-Kinase/mTOR Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 32768-32774.	1.6	90
45	<i>Nat1</i> promotes translation of specific proteins that induce differentiation of mouse embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 340-345.	3.3	81
46	Assessment of established techniques to determine developmental and malignant potential of human pluripotent stem cells. <i>Nature Communications</i> , 2018, 9, 1925.	5.8	76
47	Induced pluripotent stem cells from CINCA syndrome patients as a model for dissecting somatic mosaicism and drug discovery. <i>Blood</i> , 2012, 120, 1299-1308.	0.6	61
48	Evolutionarily conserved non-AUG translation initiation in NAT1/p97/DAP5 (EIF4G2). <i>Genomics</i> , 2005, 85, 360-371.	1.3	54
49	Sirt1 plays an important role in mediating greater functionality of human ES/iPS-derived vascular endothelial cells. <i>Atherosclerosis</i> , 2010, 212, 42-47.	0.4	42
50	Orderly hematopoietic development of induced pluripotent stem cells via Flk1 ⁺ hemoangiogenic progenitors. <i>Journal of Cellular Physiology</i> , 2009, 221, 367-377.	2.0	41
51	Cellular reprogramming "lowering gravity" on Waddington's epigenetic landscape. <i>Journal of Cell Science</i> , 2012, 125, 2553-60.	1.2	40
52	Cartilage tissue engineering identifies abnormal human induced pluripotent stem cells. <i>Scientific Reports</i> , 2013, 3, 1978.	1.6	40
53	Dual inhibition of TMPRSS2 and Cathepsin B prevents SARS-CoV-2 infection in iPS cells. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 26, 1107-1114.	2.3	35
54	Identification of MMP1 as a novel risk factor for intracranial aneurysms in ADPKD using iPSC models. <i>Scientific Reports</i> , 2016, 6, 30013.	1.6	34

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55	Identification of Genes Involved in Tumor-Like Properties of Embryonic Stem Cells. , 2006, 329, 449-458.		32
56	Induction of pluripotency by defined factors. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2014, 90, 83-96.	1.6	30
57	Cellular Reprogramming. Cold Spring Harbor Perspectives in Biology, 2014, 6, a018606-a018606.	2.3	29
58	Impaired adipogenic capacity in induced pluripotent stem cells from lipodystrophic patients with BSCL2 mutations. Metabolism: Clinical and Experimental, 2016, 65, 543-556.	1.5	24
59	MYC Releases Early Reprogrammed Human Cells from Proliferation Pause via Retinoblastoma Protein Inhibition. Cell Reports, 2018, 23, 361-375.	2.9	23
60	Critical Roles of Translation Initiation and RNA Uridylation in Endogenous Retroviral Expression and Neural Differentiation in Pluripotent Stem Cells. Cell Reports, 2020, 31, 107715.	2.9	21
61	The homeobox gene DLX4 promotes generation of human induced pluripotent stem cells. Scientific Reports, 2014, 4, 7283.	1.6	20
62	The pluripotent stem cell-specific transcript ESRG is dispensable for human pluripotency. PLoS Genetics, 2021, 17, e1009587.	1.5	20
63	ECAT11/L1td1 Is Enriched in ESCs and Rapidly Activated During iPSC Generation, but It Is Dispensable for the Maintenance and Induction of Pluripotency. PLoS ONE, 2011, 6, e20461.	1.1	18
64	Direct reprogramming 101. Development Growth and Differentiation, 2010, 52, 319-333.	0.6	17
65	ERAs is Expressed in Primate Embryonic Stem Cells but not Related to Tumorigenesis. Cell Transplantation, 2009, 18, 381-389.	1.2	15
66	Response to Comment on "Drug Screening for ALS Using Patient-Specific Induced Pluripotent Stem Cells". Science Translational Medicine, 2013, 5, 188lr2.	5.8	5
67	Multi-omics approach reveals posttranscriptionally regulated genes are essential for human pluripotent stem cells. iScience, 2022, 25, 104289.	1.9	5
68	Generation of high quality iPS cells. Neuroscience Research, 2007, 58, S19.	1.0	3
69	A stress-reduced passaging technique improves the viability of human pluripotent cells. Cell Reports Methods, 2022, 2, 100155.	1.4	2
70	Generation of disease-specific induced pluripotent stem cells from sporadic Parkinson's disease patients. Neuroscience Research, 2011, 71, e191.	1.0	1
71	Transient activation of c-MYC expression is critical for efficient platelet generation from human induced pluripotent stem cells. Journal of Cell Biology, 2010, 191, i11-i11.	2.3	1
72	Neurodegenerative disease-specific induced pluripotent Stem cells research. Neuroscience Research, 2009, 65, S10.	1.0	0

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73	Differentiation of induced pluripotent stem cells from ALS patients generates motor neurons. Neuroscience Research, 2010, 68, e197.	1.0	0
74	Induction of astrocyte differentiation from human induced pluripotent stem cells carrying mutant SOD1. Neuroscience Research, 2011, 71, e294.	1.0	0
75	Induced Pluripotent Stem Cells. , 2011, , 187-205.		0
76	The Past, Present and Future of Induced Pluripotent Stem Cells. , 0, , .		0
77	Induced Pluripotent Stem Cells. , 2013, , 197-218.		0
78	Involvement of ER Stress in Dysmyelination of Pelizaeus-Merzbacher Disease with PLP1 Missense Mutations Shown by iPSC-Derived Oligodendrocytes. Stem Cell Reports, 2015, 4, 170.	2.3	0