

# Kazutoshi Takahashi

## List of Publications by Citations

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74  
papers

49,031  
citations

45  
h-index

93  
g-index

93  
ext. papers

55,231  
ext. citations

13.7  
avg, IF

7.82  
L-index

#	Paper	IF	Citations
74	Induction of pluripotent stem cells from mouse embryonic and adult fibroblast cultures by defined factors. <i>Cell</i> , <b>2006</b> , 126, 663-76	56.2	18363
73	Induction of pluripotent stem cells from adult human fibroblasts by defined factors. <i>Cell</i> , <b>2007</b> , 131, 861-72	56.2	14786
72	The homeoprotein Nanog is required for maintenance of pluripotency in mouse epiblast and ES cells. <i>Cell</i> , <b>2003</b> , 113, 631-42	56.2	2547
71	Generation of induced pluripotent stem cells without Myc from mouse and human fibroblasts. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 101-6	44.5	2239
70	Suppression of induced pluripotent stem cell generation by the p53-p21 pathway. <i>Nature</i> , <b>2009</b> , 460, 1132-5	50.4	1073
69	Generation of pluripotent stem cells from adult mouse liver and stomach cells. <i>Science</i> , <b>2008</b> , 321, 699-703	44.5	841
68	Induction of pluripotent stem cells from fibroblast cultures. <i>Nature Protocols</i> , <b>2007</b> , 2, 3081-9	18.8	822
67	Variation in the safety of induced pluripotent stem cell lines. <i>Nature Biotechnology</i> , <b>2009</b> , 27, 743-5	44.5	702
66	Hypoxia enhances the generation of induced pluripotent stem cells. <i>Cell Stem Cell</i> , <b>2009</b> , 5, 237-41	18	608
65	Modeling Alzheimer's disease with iPSCs reveals stress phenotypes associated with intracellular A $\beta$ and differential drug responsiveness. <i>Cell Stem Cell</i> , <b>2013</b> , 12, 487-96	18	539
64	A decade of transcription factor-mediated reprogramming to pluripotency. <i>Nature Reviews Molecular Cell Biology</i> , <b>2016</b> , 17, 183-93	48.7	468
63	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 1132-44	44.5	406
62	Drug screening for ALS using patient-specific induced pluripotent stem cells. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 145ra104	17.5	390
61	Generation of retinal cells from mouse and human induced pluripotent stem cells. <i>Neuroscience Letters</i> , <b>2009</b> , 458, 126-31	3.3	354
60	Role of ERAs in promoting tumour-like properties in mouse embryonic stem cells. <i>Nature</i> , <b>2003</b> , 423, 541-5	50.4	285
59	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , <b>2015</b> , 17, 178-94	18	276
58	Transient activation of c-MYC expression is critical for efficient platelet generation from human induced pluripotent stem cells. <i>Journal of Experimental Medicine</i> , <b>2010</b> , 207, 2817-30	16.6	255

57	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> , <b>2003</b> , 23, 2699-708	4.8	233
56	Monitoring and robust induction of nephrogenic intermediate mesoderm from human pluripotent stem cells. <i>Nature Communications</i> , <b>2013</b> , 4, 1367	17.4	229
55	Complete genetic correction of ips cells from Duchenne muscular dystrophy. <i>Molecular Therapy</i> , <b>2010</b> , 18, 386-93	11.7	202
54	Induced pluripotent stem cells in medicine and biology. <i>Development (Cambridge)</i> , <b>2013</b> , 140, 2457-61	6.6	179
53	Dental pulp cells for induced pluripotent stem cell banking. <i>Journal of Dental Research</i> , <b>2010</b> , 89, 773-8	8.1	176
52	Generation of mouse-induced pluripotent stem cells with plasmid vectors. <i>Nature Protocols</i> , <b>2010</b> , 5, 418-28	18.8	174
51	Induction and isolation of vascular cells from human induced pluripotent stem cells--brief report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2009</b> , 29, 1100-3	9.4	162
50	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> , <b>2013</b> , 110, 20569-74	11.5	159
49	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> , <b>2014</b> , 111, 12426-31	11.5	157
48	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> , <b>2014</b> , 14, 40-52	18	151
47	Anti-Aβ drug screening platform using human iPS cell-derived neurons for the treatment of Alzheimer's disease. <i>PLoS ONE</i> , <b>2011</b> , 6, e25788	3.7	134
46	Adipogenic differentiation of human induced pluripotent stem cells: comparison with that of human embryonic stem cells. <i>FEBS Letters</i> , <b>2009</b> , 583, 1029-33	3.8	124
45	Roles of Sall4 in the generation of pluripotent stem cells from blastocysts and fibroblasts. <i>Genes To Cells</i> , <b>2009</b> , 14, 683-94	2.3	113
44	Induced Pluripotent Stem Cells and Their Use in Human Models of Disease and Development. <i>Physiological Reviews</i> , <b>2019</b> , 99, 79-114	47.9	111
43	Cell Therapy Using Human Induced Pluripotent Stem Cell-Derived Renal Progenitors Ameliorates Acute Kidney Injury in Mice. <i>Stem Cells Translational Medicine</i> , <b>2015</b> , 4, 980-92	6.9	103
42	Induction and enhancement of cardiac cell differentiation from mouse and human induced pluripotent stem cells with cyclosporin-A. <i>PLoS ONE</i> , <b>2011</b> , 6, e16734	3.7	100
41	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> , <b>2013</b> , 110, 12172-9	11.5	99
40	Role of the phosphoinositide 3-kinase pathway in mouse embryonic stem (ES) cells. <i>Biochemical Society Transactions</i> , <b>2005</b> , 33, 1522-5	5.1	99

39	Generation and characterization of human induced pluripotent stem cells. <i>Current Protocols in Stem Cell Biology</i> , <b>2009</b> , Chapter 4, Unit 4A.2	2.8	98
38	Derivation conditions impact X-inactivation status in female human induced pluripotent stem cells. <i>Cell Stem Cell</i> , <b>2012</b> , 11, 91-9	18	94
37	Induction of pluripotency in human somatic cells via a transient state resembling primitive streak-like mesendoderm. <i>Nature Communications</i> , <b>2014</b> , 5, 3678	17.4	93
36	Characterization of dendritic cells and macrophages generated by directed differentiation from mouse induced pluripotent stem cells. <i>Stem Cells</i> , <b>2009</b> , 27, 1021-31	5.8	89
35	Involvement of ER stress in dysmyelination of Pelizaeus-Merzbacher Disease with PLP1 missense mutations shown by iPSC-derived oligodendrocytes. <i>Stem Cell Reports</i> , <b>2014</b> , 2, 648-61	8	84
34	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> , <b>2005</b> , 280, 32768-74	5.4	82
33	A developmental framework for induced pluripotency. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 3274-85	6.6	81
32	Human induced pluripotent stem cells on autologous feeders. <i>PLoS ONE</i> , <b>2009</b> , 4, e8067	3.7	79
31	Involvement of ER Stress in Dysmyelination of Pelizaeus-Merzbacher Disease with PLP1 Missense Mutations Shown by iPSC-Derived Oligodendrocytes. <i>Stem Cell Reports</i> , <b>2015</b> , 4, 170	8	78
30	Present and future challenges of induced pluripotent stem cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 370, 20140367	5.8	61
29	Induced pluripotent stem cells from CINCA syndrome patients as a model for dissecting somatic mosaicism and drug discovery. <i>Blood</i> , <b>2012</b> , 120, 1299-308	2.2	45
28	Assessment of established techniques to determine developmental and malignant potential of human pluripotent stem cells. <i>Nature Communications</i> , <b>2018</b> , 9, 1925	17.4	45
27	Nat1 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> , <b>2017</b> , 114, 340-345	11.5	43
26	Sirt1 plays an important role in mediating greater functionality of human ES/iPS-derived vascular endothelial cells. <i>Atherosclerosis</i> , <b>2010</b> , 212, 42-7	3.1	41
25	Evolutionarily conserved non-AUG translation initiation in NAT1/p97/DAP5 (EIF4G2). <i>Genomics</i> , <b>2005</b> , 85, 360-71	4.3	40
24	Cellular reprogramming—lowering gravity on Waddington's epigenetic landscape. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 2553-60	5.3	35
23	Cartilage tissue engineering identifies abnormal human induced pluripotent stem cells. <i>Scientific Reports</i> , <b>2013</b> , 3, 1978	4.9	35
22	Orderly hematopoietic development of induced pluripotent stem cells via Flk-1(+) hemoangiogenic progenitors. <i>Journal of Cellular Physiology</i> , <b>2009</b> , 221, 367-77	7	32

21	Identification of genes involved in tumor-like properties of embryonic stem cells. <i>Methods in Molecular Biology</i> , <b>2006</b> , 329, 449-58	1.4	27
20	Identification of MMP1 as a novel risk factor for intracranial aneurysms in ADPKD using iPSC models. <i>Scientific Reports</i> , <b>2016</b> , 6, 30013	4.9	26
19	Induction of pluripotency by defined factors. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , <b>2014</b> , 90, 83-96	4	26
18	Impaired adipogenic capacity in induced pluripotent stem cells from lipodystrophic patients with BSCL2 mutations. <i>Metabolism: Clinical and Experimental</i> , <b>2016</b> , 65, 543-56	12.7	22
17	Cellular reprogramming. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2014</b> , 6,	10.2	17
16	The homeobox gene DLX4 promotes generation of human induced pluripotent stem cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 7283	4.9	16
15	ECAT11/L1td1 is enriched in ESCs and rapidly activated during iPSC generation, but it is dispensable for the maintenance and induction of pluripotency. <i>PLoS ONE</i> , <b>2011</b> , 6, e20461	3.7	15
14	Direct reprogramming 101. <i>Development Growth and Differentiation</i> , <b>2010</b> , 52, 319-33	3	15
13	MYC Releases Early Reprogrammed Human Cells from Proliferation Pause via Retinoblastoma Protein Inhibition. <i>Cell Reports</i> , <b>2018</b> , 23, 361-375	10.6	13
12	Critical Roles of Translation Initiation and RNA Uridylation in Endogenous Retroviral Expression and Neural Differentiation in Pluripotent Stem Cells. <i>Cell Reports</i> , <b>2020</b> , 31, 107715	10.6	12
11	ERas is expressed in primate embryonic stem cells but not related to tumorigenesis. <i>Cell Transplantation</i> , <b>2009</b> , 18, 381-9	4	10
10	Dual inhibition of TMPRSS2 and Cathepsin B prevents SARS-CoV-2 infection in iPS cells. <i>Molecular Therapy - Nucleic Acids</i> , <b>2021</b> , 26, 1107-1114	10.7	5
9	The pluripotent stem cell-specific transcript ESRG is dispensable for human pluripotency. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009587	6	5
8	Response to comment on "Drug screening for ALS using patient-specific induced pluripotent stem cells". <i>Science Translational Medicine</i> , <b>2013</b> , 5, 188lr2	17.5	3
7	Generation of high quality iPS cells. <i>Neuroscience Research</i> , <b>2007</b> , 58, S19	2.9	2
6	Transient activation of c-MYC expression is critical for efficient platelet generation from human induced pluripotent stem cells. <i>Journal of Cell Biology</i> , <b>2010</b> , 191, i11-i11	7.3	1
5	Multi-omics approach reveals posttranscriptionally regulated genes are essential for human pluripotent stem cells. <i>iScience</i> , <b>2022</b> , 25, 104289	6.1	0
4	Induced Pluripotent Stem Cells <b>2013</b> , 197-218		

3 Induced Pluripotent Stem Cells **2011**, 187-205

2 A stress-reduced passaging technique improves the viability of human pluripotent cells.. *Cell Reports Methods*, **2022**, 2, 100155

1 Derivation of Human Induced Pluripotent Stem Cells on Autologous Feeders. *Springer Protocols*, **2011**, 161-171

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