

In-Hyun Park

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

18,129
citations

38660

50
h-index

30848

102
g-index

118
all docs

118
docs citations

118
times ranked

22031
citing authors

#	ARTICLE	IF	CITATIONS
1	Reprogramming of human somatic cells to pluripotency with defined factors. <i>Nature</i> , 2008, 451, 141-146.	13.7	2,670
2	Disease-Specific Induced Pluripotent Stem Cells. <i>Cell</i> , 2008, 134, 877-886.	13.5	2,071
3	Differential methylation of tissue- and cancer-specific CpG island shores distinguishes human induced pluripotent stem cells, embryonic stem cells and fibroblasts. <i>Nature Genetics</i> , 2009, 41, 1350-1353.	9.4	1,076
4	Targeted and genome-scale strategies reveal gene-body methylation signatures in human cells. <i>Nature Biotechnology</i> , 2009, 27, 361-368.	9.4	985
5	Generation of induced pluripotent stem cells from human blood. <i>Blood</i> , 2009, 113, 5476-5479.	0.6	559
6	Engineering of human brain organoids with a functional vascular-like system. <i>Nature Methods</i> , 2019, 16, 1169-1175.	9.0	551
7	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
8	Fusion of Regionally Specified hPSC-Derived Organoids Models Human Brain Development and Interneuron Migration. <i>Cell Stem Cell</i> , 2017, 21, 383-398.e7.	5.2	508
9	Gene Targeting of a Disease-Related Gene in Human Induced Pluripotent Stem and Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2009, 5, 97-110.	5.2	505
10	Targeted bisulfite sequencing reveals changes in DNA methylation associated with nuclear reprogramming. <i>Nature Biotechnology</i> , 2009, 27, 353-360.	9.4	458
11	Live cell imaging distinguishes bona fide human iPS cells from partially reprogrammed cells. <i>Nature Biotechnology</i> , 2009, 27, 1033-1037.	9.4	445
12	Generation of functional human hepatic endoderm from human induced pluripotent stem cells. <i>Hepatology</i> , 2010, 51, 329-335.	3.6	389
13	Cardiomyocyte Differentiation of Human Induced Pluripotent Stem Cells. <i>Circulation</i> , 2009, 120, 1513-1523.	1.6	386
14	A role for Lin28 in primordial germ-cell development and germ-cell malignancy. <i>Nature</i> , 2009, 460, 909-913.	13.7	354
15	Generation of human-induced pluripotent stem cells. <i>Nature Protocols</i> , 2008, 3, 1180-1186.	5.5	348
16	Down's syndrome suppression of tumour growth and the role of the calcineurin inhibitor DSCR1. <i>Nature</i> , 2009, 459, 1126-1130.	13.7	341
17	Regulatory networks define phenotypic classes of human stem cell lines. <i>Nature</i> , 2008, 455, 401-405.	13.7	321
18	Mutant induced pluripotent stem cell lines recapitulate aspects of TDP-43 proteinopathies and reveal cell-specific vulnerability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5803-5808.	3.3	308

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19	hESC-Derived Thalamic Organoids Form Reciprocal Projections When Fused with Cortical Organoids. <i>Cell Stem Cell</i> , 2019, 24, 487-497.e7.	5.2	305
20	Telomere elongation in induced pluripotent stem cells from dyskeratosis congenita patients. <i>Nature</i> , 2010, 464, 292-296.	13.7	302
21	Reprogramming of T Cells from Human Peripheral Blood. <i>Cell Stem Cell</i> , 2010, 7, 15-19.	5.2	288
22	Transplantation of Adult Mouse iPS Cell-Derived Photoreceptor Precursors Restores Retinal Structure and Function in Degenerative Mice. <i>PLoS ONE</i> , 2011, 6, e18992.	1.1	283
23	Induced pluripotent stem cells for neural tissue engineering. <i>Biomaterials</i> , 2011, 32, 5023-5032.	5.7	214
24	Neuronal maturation defect in induced pluripotent stem cells from patients with Rett syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14169-14174.	3.3	187
25	Neuronal Properties, In Vivo Effects, and Pathology of a Huntington's Disease Patient-Derived Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2012, 30, 2054-2062.	1.4	167
26	PLD1 Regulates mTOR Signaling and Mediates Cdc42 Activation of S6K1. <i>Current Biology</i> , 2003, 13, 2037-2044.	1.8	156
27	IGF-II transcription in skeletal myogenesis is controlled by mTOR and nutrients. <i>Journal of Cell Biology</i> , 2003, 163, 931-936.	2.3	152
28	Synthetic Analyses of Single-Cell Transcriptomes from Multiple Brain Organoids and Fetal Brain. <i>Cell Reports</i> , 2020, 30, 1682-1689.e3.	2.9	150
29	An Extensive Network of TET2-Targeting MicroRNAs Regulates Malignant Hematopoiesis. <i>Cell Reports</i> , 2013, 5, 471-481.	2.9	139
30	Histone Deacetylases Positively Regulate Transcription through the Elongation Machinery. <i>Cell Reports</i> , 2015, 13, 1444-1455.	2.9	138
31	Directed differentiation of hematopoietic precursors and functional osteoclasts from human ES and iPS cells. <i>Blood</i> , 2010, 115, 2769-2776.	0.6	135
32	Overcoming reprogramming resistance of Fanconi anemia cells. <i>Blood</i> , 2012, 119, 5449-5457.	0.6	133
33	Altered hematopoiesis in trisomy 21 as revealed through in vitro differentiation of isogenic human pluripotent cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17567-17572.	3.3	129
34	Modeling Supravalvular Aortic Stenosis Syndrome With Human Induced Pluripotent Stem Cells. <i>Circulation</i> , 2012, 126, 1695-1704.	1.6	106
35	Two methods for full-length RNA sequencing for low quantities of cells and single cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 594-599.	3.3	103
36	Hematopoietic Development from Human Induced Pluripotent Stem Cells. <i>Annals of the New York Academy of Sciences</i> , 2009, 1176, 219-227.	1.8	100

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37	MicroRNA Profiling Reveals Two Distinct p53-Related Human Pluripotent Stem Cell States. <i>Cell Stem Cell</i> , 2010, 7, 671-681.	5.2	98
38	Induced pluripotent stem cell models from X-linked adrenoleukodystrophy patients. <i>Annals of Neurology</i> , 2011, 70, 402-409.	2.8	94
39	Direct Reprogramming of Human Dermal Fibroblasts Into Endothelial Cells Using ER71/ETV2. <i>Circulation Research</i> , 2017, 120, 848-861.	2.0	90
40	Cell cycle adaptations of embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19252-19257.	3.3	85
41	Regulation of Ribosomal S6 Kinase 2 by Mammalian Target of Rapamycin. <i>Journal of Biological Chemistry</i> , 2002, 277, 31423-31429.	1.6	83
42	In vitro generation of germ cells from murine embryonic stem cells. <i>Nature Protocols</i> , 2006, 1, 2026-2036.	5.5	82
43	Hematopoietic differentiation of induced pluripotent stem cells from patients with mucopolysaccharidosis type I (Hurler syndrome). <i>Blood</i> , 2011, 117, 839-847.	0.6	82
44	Mammalian Target of Rapamycin (mTOR) Signaling Is Required for a Late-stage Fusion Process during Skeletal Myotube Maturation. <i>Journal of Biological Chemistry</i> , 2005, 280, 32009-32017.	1.6	79
45	Human Pluripotent Stem Cells Produce Natural Killer Cells That Mediate Anti-HIV-1 Activity by Utilizing Diverse Cellular Mechanisms. <i>Journal of Virology</i> , 2011, 85, 43-50.	1.5	77
46	A Nuclear Transport Signal in Mammalian Target of Rapamycin Is Critical for Its Cytoplasmic Signaling to S6 Kinase 1. <i>Journal of Biological Chemistry</i> , 2006, 281, 7357-7363.	1.6	71
47	Skeletal myocyte hypertrophy requires mTOR kinase activity and S6K1. <i>Experimental Cell Research</i> , 2005, 309, 211-219.	1.2	69
48	Therapeutic Potential of Human Induced Pluripotent Stem Cells in Experimental Stroke. <i>Cell Transplantation</i> , 2013, 22, 1427-1440.	1.2	69
49	Human induced pluripotent stem cells and neurodegenerative disease. <i>Current Opinion in Neurology</i> , 2012, 25, 125-130.	1.8	64
50	A Robust Approach to Identifying Tissue-Specific Gene Expression Regulatory Variants Using Personalized Human Induced Pluripotent Stem Cells. <i>PLoS Genetics</i> , 2009, 5, e1000718.	1.5	55
51	Dysregulation of BRD4 Function Underlies the Functional Abnormalities of MeCP2 Mutant Neurons. <i>Molecular Cell</i> , 2020, 79, 84-98.e9.	4.5	53
52	Enhanced Therapeutic and Long-Term Dynamic Vascularization Effects of Human Pluripotent Stem Cell-Derived Endothelial Cells Encapsulated in a Nanomatrix Gel. <i>Circulation</i> , 2017, 136, 1939-1954.	1.6	51
53	Expression of the transcription factor PU.1 induces the generation of microglia-like cells in human cortical organoids. <i>Nature Communications</i> , 2022, 13, 430.	5.8	49
54	Modelling Human Disease with Pluripotent Stem Cells. <i>Current Gene Therapy</i> , 2013, 13, 99-110.	0.9	46

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55	Single cell transcriptomics reveals unanticipated features of early hematopoietic precursors. <i>Nucleic Acids Research</i> , 2017, 45, gkw1214.	6.5	40
56	MeCP2 Regulates the Synaptic Expression of a Dysbindin-BLOC-1 Network Component in Mouse Brain and Human Induced Pluripotent Stem Cell-Derived Neurons. <i>PLoS ONE</i> , 2013, 8, e65069.	1.1	38
57	Uhrf1 regulates active transcriptional marks at bivalent domains in pluripotent stem cells through Setd1a. <i>Nature Communications</i> , 2018, 9, 2583.	5.8	35
58	The RNA exosome nuclease complex regulates human embryonic stem cell differentiation. <i>Journal of Cell Biology</i> , 2019, 218, 2564-2582.	2.3	35
59	In Vivo Roles of a Patient-Derived Induced Pluripotent Stem Cell Line (HD72-iPSC) in the YAC128 Model of Huntington's Disease. <i>International Journal of Stem Cells</i> , 2014, 7, 43-47.	0.8	34
60	X Chromosome of Female Cells Shows Dynamic Changes in Status during Human Somatic Cell Reprogramming. <i>Stem Cell Reports</i> , 2014, 2, 896-909.	2.3	33
61	Ethanol Upregulates NMDA Receptor Subunit Gene Expression in Human Embryonic Stem Cell-Derived Cortical Neurons. <i>PLoS ONE</i> , 2015, 10, e0134907.	1.1	33
62	Transcriptional regulation in pluripotent stem cells by methyl CpG-binding protein 2 (MeCP2). <i>Human Molecular Genetics</i> , 2014, 23, 1045-1055.	1.4	32
63	Regulation of the DNA Methylation Landscape in Human Somatic Cell Reprogramming by the miR-29 Family. <i>Stem Cell Reports</i> , 2016, 7, 43-54.	2.3	31
64	Bisulfite-independent analysis of CpG island methylation enables genome-scale stratification of single cells. <i>Nucleic Acids Research</i> , 2017, 45, gkx026.	6.5	31
65	Modeling and correction of structural variations in patient-derived iPSCs using CRISPR/Cas9. <i>Nature Protocols</i> , 2016, 11, 2154-2169.	5.5	27
66	How well do brain organoids capture your brain?. <i>IScience</i> , 2021, 24, 102063.	1.9	27
67	Tgif1 Counterbalances the Activity of Core Pluripotency Factors in Mouse Embryonic Stem Cells. <i>Cell Reports</i> , 2015, 13, 52-60.	2.9	26
68	Human iPS Cell Derivation/Reprogramming. <i>Current Protocols in Stem Cell Biology</i> , 2009, 8, Unit 4A.1.	3.0	25
69	Investigation of Rett syndrome using pluripotent stem cells. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 2446-2453.	1.2	24
70	Generation of Regionally Specified Human Brain Organoids Resembling Thalamus Development. <i>STAR Protocols</i> , 2020, 1, 100001.	0.5	24
71	Exploration of alcohol use disorder-associated brain miRNA-mRNA regulatory networks. <i>Translational Psychiatry</i> , 2021, 11, 504.	2.4	23
72	Generation and Fusion of Human Cortical and Medial Ganglionic Eminence Brain Organoids. <i>Current Protocols in Stem Cell Biology</i> , 2018, 47, e61.	3.0	21

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73	Implantation of the clinical-grade human neural stem cell line, <i>CTX0E03</i>, rescues the behavioral and pathological deficits in the quinolinic acid-lesioned rodent model of Huntington's disease. <i>Stem Cells</i> , 2020, 38, 936-947.	1.4	21
74	Deconstructing and reconstructing the human brain with regionally specified brain organoids. <i>Seminars in Cell and Developmental Biology</i> , 2021, 111, 40-51.	2.3	21
75	Transcriptome Signature and Regulation in Human Somatic Cell Reprogramming. <i>Stem Cell Reports</i> , 2015, 4, 1125-1139.	2.3	19
76	Genes causing congenital hydrocephalus: Their chromosomal characteristics of telomere proximity and DNA compositions. <i>Experimental Neurology</i> , 2021, 335, 113523.	2.0	19
77	Analysis of Differential Proteomes of Induced Pluripotent Stem Cells by Protein-Based Reprogramming of Fibroblasts. <i>Journal of Proteome Research</i> , 2011, 10, 977-989.	1.8	18
78	Mural Cell-Specific Deletion of Cerebral Cavernous Malformation 3 in the Brain Induces Cerebral Cavernous Malformations. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 2171-2186.	1.1	18
79	Regeneration of infarcted mouse hearts by cardiovascular tissue formed via the direct reprogramming of mouse fibroblasts. <i>Nature Biomedical Engineering</i> , 2021, 5, 880-896.	11.6	18
80	Humanized murine model for HBV and HCV using human induced pluripotent stem cells. <i>Archives of Pharmacal Research</i> , 2012, 35, 261-269.	2.7	15
81	Development of a novel two-dimensional directed differentiation system for generation of cardiomyocytes from human pluripotent stem cells. <i>International Journal of Cardiology</i> , 2013, 168, 41-52.	0.8	14
82	Intracerebral Transplants of GMP-Grade Human Umbilical Cord-Derived Mesenchymal Stromal Cells Effectively Treat Subacute-Phase Ischemic Stroke in a Rodent Model. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 546659.	1.8	14
83	Regional specification and complementation with non-neuroectodermal cells in human brain organoids. <i>Journal of Molecular Medicine</i> , 2021, 99, 489-500.	1.7	14
84	Region Specific Brain Organoids to Study Neurodevelopmental Disorders. <i>International Journal of Stem Cells</i> , 2022, 15, 26-40.	0.8	14
85	Dnmt1 regulates the myogenic lineage specification of muscle stem cells. <i>Scientific Reports</i> , 2016, 6, 35355.	1.6	13
86	Vulnerability of cholecystokinin-expressing GABAergic interneurons in the unilateral intrahippocampal kainate mouse model of temporal lobe epilepsy. <i>Experimental Neurology</i> , 2021, 342, 113724.	2.0	11
87	Reprogramming progressive cells display low CAG promoter activity. <i>Stem Cells</i> , 2021, 39, 43-54.	1.4	11
88	Getting the right cells. <i>ELife</i> , 0, 11, .	2.8	10
89	Transformation of somatic cells into stem cell-like cells under a stromal niche. <i>FASEB Journal</i> , 2013, 27, 2644-2656.	0.2	9
90	The lesser known story of X chromosome reactivation. <i>Cell Cycle</i> , 2012, 11, 229-235.	1.3	7

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91	Debugging cellular reprogramming. <i>Nature Cell Biology</i> , 2007, 9, 871-873.	4.6	6
92	Role of Zscan4 in secondary murine iPSC derivation mediated by protein extracts of ESC or iPSC. <i>Biomaterials</i> , 2015, 59, 102-115.	5.7	6
93	The Zebrafish Homologue of the Murine Ecotropic Viral Integration Site-1 (. Evi-1) gene Regulates Zebrafish Embryonic Blood Development.. <i>Blood</i> , 2009, 114, 1461-1461.	0.6	6
94	DYS-HAC-iPS Cells: The Combination of Gene and Cell Therapy to Treat Duchenne Muscular Dystrophy. <i>Molecular Therapy</i> , 2010, 18, 238-240.	3.7	5
95	Impact of Retrotransposons in Pluripotent Stem Cells. <i>Molecules and Cells</i> , 2012, 34, 509-516.	1.0	5
96	Hematopoietic Development From Human Induced Pluripotent Stem Cells.. <i>Blood</i> , 2009, 114, 2530-2530.	0.6	4
97	The critical role of persistent sodium current in hippocampal gamma oscillations. <i>Neuropharmacology</i> , 2020, 162, 107787.	2.0	3
98	Five classic articles in somatic cell reprogramming. <i>Yale Journal of Biology and Medicine</i> , 2010, 83, 135-7.	0.2	2
99	Altered Hematopoiesis in Trisomy 21 As Revealed Through In Vitro Differentiation of Isogenic Human Pluripotent Cells. <i>Blood</i> , 2011, 118, 921-921.	0.6	1
100	Telomere Elongation in Dyskeratosis Congenita Induced Pluripotent Stem Cells.. <i>Blood</i> , 2009, 114, 497-497.	0.6	1
101	Live isolation of naïve ESCs via distinct glucose metabolism and stored glycogen. <i>Metabolic Engineering</i> , 2022, 72, 97-106.	3.6	1
102	Human Down syndrome microglia are up for a synaptic feast. <i>Cell Stem Cell</i> , 2022, 29, 1007-1008.	5.2	1
103	Trivalent Chromatin Marks the Way in. <i>Cell Stem Cell</i> , 2013, 13, 510-512.	5.2	0
104	New Advances in Human X Chromosome Status from a Developmental and Stem Cell Biology. <i>Tissue Engineering and Regenerative Medicine</i> , 2017, 14, 643-652.	1.6	0
105	Scalable small molecule derived mini-liver organoids from human pluripotent stem cells. <i>Journal of Hepatology</i> , 2020, 73, S91.	1.8	0
106	Patient-Specific Induced Pluripotent Stem Cells in Hurler Syndrome. <i>Blood</i> , 2008, 112, 386-386.	0.6	0
107	Natural Killer Cells Derived From Human Pluripotent Stem Cells Provide a Novel Method to Treat HIV-1 Infection.. <i>Blood</i> , 2009, 114, 280-280.	0.6	0
108	Recent Advances and Future Perspectives on Somatic Cell Reprogramming. , 2011, , 13-29.		0

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109	Gene-Correction Rescues Reprogramming of Fanconi Anemia Fibroblasts and Enables Hematopoietic Differentiation of FA Induced Pluripotent Stem Cells in Vitro and In Vivo. Blood, 2011, 118, 672-672.	0.6	0
110	Evi-1 Regulates Myelopoiesis and Hematopoietic Stem Cell Development in Zebrafish and Human Pluripotent Stem Cells. Blood, 2011, 118, 1281-1281.	0.6	0
111	A Dual Role of Evi-1 During Developmental Hematopoiesis. Blood, 2012, 120, 765-765.	0.6	0
112	Developing a Model of Human Pluripotent to Hematopoietic Stem Cell Development in Mistrg Mice. Blood, 2015, 126, 4755-4755.	0.6	0
113	3 Genetic and Epigenetic Considerations in iPSC Technology. , 2017, , 51-86.		0