Yohei Hayashi

List of Publications by Year
in descending order

43 papers	4,091 citations	304743 22 h-index	276875 41 g-index
46 all docs	46 docs citations	46 times ranked	6188 citing authors

#	Article	IF	Citations
1	Direct Reprogramming of Fibroblasts into Functional Cardiomyocytes by Defined Factors. Cell, 2010, 142, 375-386.	28.9	2,235
2	Direct Reprogramming of Human Fibroblasts toward a Cardiomyocyte-like State. Stem Cell Reports, 2013, 1, 235-247.	4.8	351
3	The let-7/LIN-41 Pathway Regulates Reprogramming to Human Induced Pluripotent Stem Cells by Controlling Expression of Prodifferentiation Genes. Cell Stem Cell, 2014, 14, 40-52.	11.1	200
4	Integrins Regulate Mouse Embryonic Stem Cell Self-Renewal. Stem Cells, 2007, 25, 3005-3015.	3.2	195
5	Calcium Transients Closely Reflect Prolonged Action Potentials in iPSC Models of Inherited Cardiac Arrhythmia. Stem Cell Reports, 2014, 3, 269-281.	4.8	106
6	Induced pluripotent stem cells from patients with human fibrodysplasia ossificans progressiva show increased mineralization and cartilage formation. Orphanet Journal of Rare Diseases, 2013, 8, 190.	2.7	101
7	Directed induction of anterior and posterior primitive streak by Wnt from embryonic stem cells cultured in a chemically defined serumâ€free medium. FASEB Journal, 2009, 23, 114-122.	0.5	78
8	Cell-autonomous correction of ring chromosomes in human induced pluripotent stem cells. Nature, 2014, 507, 99-103.	27.8	75
9	BMP-SMAD-ID promotes reprogramming to pluripotency by inhibiting p16/INK4A-dependent senescence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13057-13062.	7.1	75
10	BMP4 induction of trophoblast from mouse embryonic stem cells in defined culture conditions on laminin. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 416-430.	1.5	70
11	LEUKEMIA INHIBITORY FACTOR AS AN ANTI-APOPTOTIC MITOGEN FOR PLURIPOTENT MOUSE EMBRYONIC STEM CELLS IN A SERUM-FREE MEDIUM WITHOUT FEEDER CELLS. In Vitro Cellular and Developmental Biology - Animal, 2005, 41, 19.	1.5	59
12	Reduction of N-Glycolylneuraminic Acid in Human Induced Pluripotent Stem Cells Generated or Cultured under Feeder- and Serum-Free Defined Conditions. PLoS ONE, 2010, 5, e14099.	2.5	48
13	Germline development from human pluripotent stem cells toward disease modeling of infertility. Fertility and Sterility, 2012, 97, 1250-1259.	1.0	48
14	DNA aptamer assemblies as fibroblast growth factor mimics and their application in stem cell culture. Chemical Communications, 2019, 55, 2672-2675.	4.1	45
15	Structure-based discovery of NANOG variant with enhanced properties to promote self-renewal and reprogramming of pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4666-4671.	7.1	43
16	Autotaxin-mediated lipid signaling intersects with LIF and BMP signaling to promote the naive pluripotency transcription factor program. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12478-12483.	7.1	38
17	A Role for KLF4 in Promoting the Metabolic Shift via TCL1 during Induced Pluripotent Stem Cell Generation. Stem Cell Reports, 2017, 8, 787-801.	4.8	36
18	Pluripotent Stem Cell Heterogeneity. Advances in Experimental Medicine and Biology, 2019, 1123, 71-94.	1.6	34

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19	Biological Effects of Culture Substrates on Human Pluripotent Stem Cells. Stem Cells International, 2016, 2016, 1-11.	2.5	33
20	Enzyme-free Passage of Human Pluripotent Stem Cells by Controlling Divalent Cations. Scientific Reports, 2014, 4, 4646.	3.3	31
21	Induction of neural crest cells from mouse embryonic stem cells in a serum-free monolayer culture. International Journal of Developmental Biology, 2010, 54, 1287-1294.	0.6	30
22	Induction of intermediate mesoderm by retinoic acid receptor signaling from differentiating mouse embryonic stem cells. International Journal of Developmental Biology, 2013, 57, 383-389.	0.6	28
23	Serum-free culture conditions for serial subculture of undifferentiated PC12 cells. Journal of Neuroscience Methods, 2006, 151, 250-261.	2.5	21
24	In silico-labeled ghost cytometry. ELife, 2021, 10, .	6.0	18
25	Live-cell imaging of subcellular structures for quantitative evaluation of pluripotent stem cells. Scientific Reports, 2019, 9, 1777.	3.3	17
26	Non-invasive in vivo imaging of UCP1 expression in live mice via near-infrared fluorescent protein iRFP720. PLoS ONE, 2019, 14, e0225213.	2.5	10
27	Template Activating Factor-I Î± Regulates Retroviral Silencing during Reprogramming. Cell Reports, 2019, 29, 1909-1922.e5.	6.4	8
28	Automated adherent cell elimination by a high-speed laser mediated by a light-responsive polymer. Communications Biology, 2018, 1, 218.	4.4	7
29	In vitro models of cranial neural crest development toward toxicity tests: frog, mouse, and human. Oral Diseases, 2017, 23, 559-565.	3.0	6
30	Studying Abnormal Chromosomal Diseases Using Patient-Derived Induced Pluripotent Stem Cells. Frontiers in Cellular Neuroscience, 2020, 14, 224.	3.7	6
31	Asymmetricity Between Sister Cells of Pluripotent Stem Cells at the Onset of Differentiation. Stem Cells and Development, 2018, 27, 347-354.	2.1	5
32	Generation of two human induced pluripotent stem cell lines derived from two juvenile nephronophthisis patients with NPHP1 deletion. Stem Cell Research, 2020, 45, 101815.	0.7	5
33	Generation of two ISL1-tdTomato reporter human induced pluripotent stem cell lines using CRISPR-Cas9 genome editing. Stem Cell Research, 2021, 53, 102363.	0.7	4
34	Human Mutations Affecting Reprogramming into Induced Pluripotent Stem Cells. AIMS Cell and Tissue Engineering, 2017, 1, 31-46.	0.4	4
35	Structurally-discovered KLF4 variants accelerate and stabilize reprogramming to pluripotency. IScience, 2022, 25, 103525.	4.1	4
36	Retinoids rescue ceruloplasmin secretion and alleviate oxidative stress in Wilsonâ€™s disease-specific hepatocytes. Human Molecular Genetics, 2022, 31, 3652-3671.	2.9	4

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37	Generation of human induced pluripotent stem cell lines derived from four DiGeorge syndrome patients with 22q11.2 deletion. Stem Cell Research, 2022, 61, 102744.	0.7	3
38	Live cell imaging of X chromosome reactivation during somatic cell reprogramming. Biochemistry and Biophysics Reports, 2018, 15, 86-92.	1.3	2
39	Generation of two human induced pluripotent stem cell lines derived from two X-linked adrenoleukodystrophy patients with ABCD1 mutations. Stem Cell Research, 2021, 53, 102337.	0.7	2
40	Generation of human induced pluripotent stem cell lines carrying homozygous JAG1 deletions. Stem Cell Research, 2021, 57, 102588.	0.7	2
41	Downregulation of Odd-Skipped Related 2, a Novel Regulator of Epithelial-Mesenchymal Transition, Enables Efficient Somatic Cell Reprogramming. Stem Cells, 2022, , .	3.2	2
42	An in vitro reconstitution system for the assessment of chromatin protein fluidity during Xenopus development. Biochemical and Biophysical Research Communications, 2010, 400, 200-206.	2.1	0
43	Disease-Focused Research Using Stem Cells. Biomedicines, 2021, 9, 1643.	3.2	0