

Jie-Kai Chen

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77
papers

5,303
citations

31
h-index

72
g-index

87
ext. papers

6,646
ext. citations

15.5
avg, IF

4.89
L-index

#	Paper	IF	Citations
77	A mesenchymal-to-epithelial transition initiates and is required for the nuclear reprogramming of mouse fibroblasts. <i>Cell Stem Cell</i> , 2010 , 7, 51-63	18	902
76	Vitamin C enhances the generation of mouse and human induced pluripotent stem cells. <i>Cell Stem Cell</i> , 2010 , 6, 71-9	18	762
75	H3K9 methylation is a barrier during somatic cell reprogramming into iPSCs. <i>Nature Genetics</i> , 2013 , 45, 34-42	36.3	379
74	Generation of induced pluripotent stem cell lines from Tibetan miniature pig. <i>Journal of Biological Chemistry</i> , 2009 , 284, 17634-40	5.4	319
73	Generation of a Broadly Useful Model for COVID-19 Pathogenesis, Vaccination, and Treatment. <i>Cell</i> , 2020 , 182, 734-743.e5	56.2	264
72	Tet and TDG mediate DNA demethylation essential for mesenchymal-to-epithelial transition in somatic cell reprogramming. <i>Cell Stem Cell</i> , 2014 , 14, 512-22	18	241
71	Vitamin C modulates TET1 function during somatic cell reprogramming. <i>Nature Genetics</i> , 2013 , 45, 1504-9	36.3	214
70	Sequential introduction of reprogramming factors reveals a time-sensitive requirement for individual factors and a sequential EMT-MET mechanism for optimal reprogramming. <i>Nature Cell Biology</i> , 2013 , 15, 829-38	23.4	165
69	Rapamycin and other longevity-promoting compounds enhance the generation of mouse induced pluripotent stem cells. <i>Aging Cell</i> , 2011 , 10, 908-11	9.9	164
68	COVID-19 immune features revealed by a large-scale single-cell transcriptome atlas. <i>Cell</i> , 2021 , 184, 1895-1913.e19	56.2	1519
67	The p53-induced lincRNA-p21 derails somatic cell reprogramming by sustaining H3K9me3 and CpG methylation at pluripotency gene promoters. <i>Cell Research</i> , 2015 , 25, 80-92	24.7	137
66	Chromatin Accessibility Dynamics during iPSC Reprogramming. <i>Cell Stem Cell</i> , 2017 , 21, 819-833.e6	18	108
65	BMPs functionally replace Klf4 and support efficient reprogramming of mouse fibroblasts by Oct4 alone. <i>Cell Research</i> , 2011 , 21, 205-12	24.7	102
64	Lithium, an anti-psychotic drug, greatly enhances the generation of induced pluripotent stem cells. <i>Cell Research</i> , 2011 , 21, 1424-35	24.7	90
63	The oncogene c-Jun impedes somatic cell reprogramming. <i>Nature Cell Biology</i> , 2015 , 17, 856-67	23.4	75
62	Reprogramming of mouse and human somatic cells by high-performance engineered factors. <i>EMBO Reports</i> , 2011 , 12, 373-8	6.5	75
61	Rational optimization of reprogramming culture conditions for the generation of induced pluripotent stem cells with ultra-high efficiency and fast kinetics. <i>Cell Research</i> , 2011 , 21, 884-94	24.7	66

60	PRC2 specifies ectoderm lineages and maintains pluripotency in primed but not naïve ESCs. <i>Nature Communications</i> , 2017 , 8, 672	17.4	55
59	Towards an optimized culture medium for the generation of mouse induced pluripotent stem cells. <i>Journal of Biological Chemistry</i> , 2010 , 285, 31066-72	5.4	51
58	Transposable elements are regulated by context-specific patterns of chromatin marks in mouse embryonic stem cells. <i>Nature Communications</i> , 2019 , 10, 34	17.4	50
57	Chromatin Accessibility Dynamics during Chemical Induction of Pluripotency. <i>Cell Stem Cell</i> , 2018 , 22, 529-542.e5	18	47
56	The RNA mA reader YTHDC1 silences retrotransposons and guards ES cell identity. <i>Nature</i> , 2021 , 591, 322-326	50.4	45
55	Resolving Cell Fate Decisions during Somatic Cell Reprogramming by Single-Cell RNA-Seq. <i>Molecular Cell</i> , 2019 , 73, 815-829.e7	17.6	43
54	Dalbavancin binds ACE2 to block its interaction with SARS-CoV-2 spike protein and is effective in inhibiting SARS-CoV-2 infection in animal models. <i>Cell Research</i> , 2021 , 31, 17-24	24.7	43
53	Single-cell analysis reveals bronchoalveolar epithelial dysfunction in COVID-19 patients. <i>Protein and Cell</i> , 2020 , 11, 680-687	7.2	41
52	Failure to replicate the STAP cell phenomenon. <i>Nature</i> , 2015 , 525, E6-9	50.4	34
51	XIST Derepression in Active X Chromosome Hinders Pig Somatic Cell Nuclear Transfer. <i>Stem Cell Reports</i> , 2018 , 10, 494-508	8	34
50	Host metabolism dysregulation and cell tropism identification in human airway and alveolar organoids upon SARS-CoV-2 infection. <i>Protein and Cell</i> , 2021 , 12, 717-733	7.2	33
49	Pluripotency reprogramming by competent and incompetent POU factors uncovers temporal dependency for Oct4 and Sox2. <i>Nature Communications</i> , 2019 , 10, 3477	17.4	33
48	EMT and MET as paradigms for cell fate switching. <i>Journal of Molecular Cell Biology</i> , 2012 , 4, 66-9	6.3	32
47	Cyclin-dependent kinase-mediated Sox2 phosphorylation enhances the ability of Sox2 to establish the pluripotent state. <i>Journal of Biological Chemistry</i> , 2015 , 290, 22782-94	5.4	31
46	Models of global gene expression define major domains of cell type and tissue identity. <i>Nucleic Acids Research</i> , 2017 , 45, 2354-2367	20.1	31
45	EGF promotes mammalian cell growth by suppressing cellular senescence. <i>Cell Research</i> , 2015 , 25, 135-824.7	28	
44	SETDB1-Mediated Cell Fate Transition between 2C-Like and Pluripotent States. <i>Cell Reports</i> , 2020 , 30, 25-36.e6	10.6	27
43	Transcription factor Hoxb5 reprograms B cells into functional T lymphocytes. <i>Nature Immunology</i> , 2018 , 19, 279-290	19.1	24

42	Vitamin C-dependent lysine demethylase 6 (KDM6)-mediated demethylation promotes a chromatin state that supports the endothelial-to-hematopoietic transition. <i>Journal of Biological Chemistry</i> , 2019 , 294, 13657-13670	5.4	24
41	Kdm2b Regulates Somatic Reprogramming through Variant PRC1 Complex-Dependent Function. <i>Cell Reports</i> , 2017 , 21, 2160-2170	10.6	24
40	SARS-CoV-2 envelope protein causes acute respiratory distress syndrome (ARDS)-like pathological damages and constitutes an antiviral target. <i>Cell Research</i> , 2021 , 31, 847-860	24.7	24
39	Induction of Pluripotent Stem Cells from Mouse Embryonic Fibroblasts by Jdp2-Jhdm1b-Mkk6-Glis1-Nanog-Esrrb-Sall4. <i>Cell Reports</i> , 2019 , 27, 3473-3485.e5	10.6	22
38	Gadd45a is a heterochromatin relaxer that enhances iPS cell generation. <i>EMBO Reports</i> , 2016 , 17, 1641-1656	16.5	22
37	Guiding T lymphopoiesis from pluripotent stem cells by defined transcription factors. <i>Cell Research</i> , 2020 , 30, 21-33	24.7	21
36	BMI1 enables interspecies chimerism with human pluripotent stem cells. <i>Nature Communications</i> , 2018 , 9, 4649	17.4	20
35	YTHDF2/3 Are Required for Somatic Reprogramming through Different RNA Deadenylation Pathways. <i>Cell Reports</i> , 2020 , 32, 108120	10.6	19
34	Epithelial-Mesenchymal Transition and Metabolic Switching in Cancer: Lessons From Somatic Cell Reprogramming. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 760	5.7	17
33	Pyrimidoindole derivative UM171 enhances derivation of hematopoietic progenitor cells from human pluripotent stem cells. <i>Stem Cell Research</i> , 2017 , 21, 32-39	1.6	16
32	CG14906 (mettl4) mediates mA methylation of U2 snRNA in. <i>Cell Discovery</i> , 2020 , 6, 44	22.3	16
31	Dynamically reorganized chromatin is the key for the reprogramming of somatic cells to pluripotent cells. <i>Scientific Reports</i> , 2015 , 5, 17691	4.9	16
30	Identifying transposable element expression dynamics and heterogeneity during development at the single-cell level with a processing pipeline scTE. <i>Nature Communications</i> , 2021 , 12, 1456	17.4	15
29	Passive DNA demethylation preferentially up-regulates pluripotency-related genes and facilitates the generation of induced pluripotent stem cells. <i>Journal of Biological Chemistry</i> , 2017 , 292, 18542-18555	5.4	14
28	BMP4 resets mouse epiblast stem cells to naive pluripotency through ZBTB7A/B-mediated chromatin remodelling. <i>Nature Cell Biology</i> , 2020 , 22, 651-662	23.4	13
27	Reprogramming somatic cells to cells with neuronal characteristics by defined medium both in vitro and in vivo. <i>Cell Regeneration</i> , 2015 , 4, 12	2.5	12
26	Chemical reprogramming of mouse embryonic and adult fibroblast into endoderm lineage. <i>Journal of Biological Chemistry</i> , 2017 , 292, 19122-19132	5.4	11
25	JMJD3 acts in tandem with KLF4 to facilitate reprogramming to pluripotency. <i>Nature Communications</i> , 2020 , 11, 5061	17.4	11

24	Enforced expression of Hoxa5 in haematopoietic stem cells leads to aberrant erythropoiesis in vivo. <i>Cell Cycle</i> , 2015 , 14, 612-20	4.7	10
23	A Virus-Infected, Reprogrammed Somatic Cell-Derived Tumor Cell (VIReST) Vaccination Regime Can Prevent Initiation and Progression of Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2020 , 26, 465-476	12.9	10
22	Characterization and generation of human definitive multipotent hematopoietic stem/progenitor cells. <i>Cell Discovery</i> , 2020 , 6, 89	22.3	8
21	Rapid generation of ACE2 humanized inbred mouse model for COVID-19 with tetraploid complementation. <i>National Science Review</i> , 2021 , 8, nwa285	10.8	8
20	OP9-Lhx2 stromal cells facilitate derivation of hematopoietic progenitors both in vitro and in vivo. <i>Stem Cell Research</i> , 2015 , 15, 395-402	1.6	6
19	Concurrent binding to DNA and RNA facilitates the pluripotency reprogramming activity of Sox2. <i>Nucleic Acids Research</i> , 2020 , 48, 3869-3887	20.1	6
18	Relaxed 3D genome conformation facilitates the pluripotent to totipotent-like state transition in embryonic stem cells. <i>Nucleic Acids Research</i> , 2021 , 49, 12167-12177	20.1	5
17	SS18 regulates pluripotent-somatic transition through phase separation. <i>Nature Communications</i> , 2021 , 12, 4090	17.4	5
16	Human Embryonic Stem Cell-derived Lung Organoids: a Model for SARS-CoV-2 Infection and Drug Test		4
15	The Battle between TET Proteins and DNA Methylation for the Right Cell. <i>Trends in Cell Biology</i> , 2018 , 28, 973-975	18.3	4
14	Systematic calibration of epitranscriptomic maps using a synthetic modification-free RNA library. <i>Nature Methods</i> , 2021 , 18, 1213-1222	21.6	4
13	Global Profiling of the Lysine Crotylome in Different Pluripotent States. <i>Genomics, Proteomics and Bioinformatics</i> , 2021 , 19, 80-93	6.5	3
12	Perspectives on somatic reprogramming: spotlighting epigenetic regulation and cellular heterogeneity. <i>Current Opinion in Genetics and Development</i> , 2020 , 64, 21-25	4.9	2
11	Epigenetic Landmarks During Somatic Reprogramming. <i>IUBMB Life</i> , 2016 , 68, 854-857	4.7	2
10	Unveiling transposable element expression heterogeneity in cell fate regulation at the single-cell level		1
9	DNA Damage Induces Dynamic Associations of BRD4/P-TEFb With Chromatin and Modulates Gene Transcription in a BRD4-Dependent and -Independent Manner. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 618088	5.6	1
8	Generating a reporter mouse line marking medium spiny neurons in the developing striatum driven by Arpp21 cis-regulatory elements. <i>Journal of Genetics and Genomics</i> , 2018 , 45, 673-676	4	1
7	Transposable element sequence fragments incorporated into coding and noncoding transcripts modulate the transcriptome of human pluripotent stem cells. <i>Nucleic Acids Research</i> , 2021 , 49, 9132-9153	20.1	1

6	Human induced-T-to-natural killer cells have potent anti-tumour activities.. <i>Biomarker Research</i> , 2022 , 10, 13	8	1
5	scDIOR: single cell RNA-seq data IO software.. <i>BMC Bioinformatics</i> , 2022 , 23, 16	3.6	0
4	Mitolysosome exocytosis, a mitophagy-independent mitochondrial quality control in flunarizine-induced parkinsonism-like symptoms.. <i>Science Advances</i> , 2022 , 8, eabk2376	14.3	0
3	BMP4 drives primed to naïve transition through PGC-like state.. <i>Nature Communications</i> , 2022 , 13, 2756	17.4	0
2	Mouse embryonic stem cells resist c-Jun induced differentiation when in suspension. <i>Cell Regeneration</i> , 2018 , 7, 16-21	2.5	
1	AP-1 activity is a major barrier of human somatic cell reprogramming. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 5847-5863	10.3	