Jie-Kai Chen

List of Publications by Year in Descending Order

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	scDIOR: single cell RNA-seq data IO software.. *BMC Bioinformatics*, **2022**, 23, 16	3.6	0
76	Human induced-T-to-natural killer cells have potent anti-tumour activities.. *Biomarker Research*, **2022**, 10, 13	8	1
75	Mitolysosome exocytosis, a mitophagy-independent mitochondrial quality control in flunarizine-induced parkinsonism-like symptoms.. *Science Advances*, **2022**, 8, eabk2376	14.3	0
74	BMP4 drives primed to naïve transition through PGC-like state.. *Nature Communications*, **2022**, 13, 2756	17.4	0
73	Host metabolism dysregulation and cell tropism identification in human airway and alveolar organoids upon SARS-CoV-2 infection. *Protein and Cell*, **2021**, 12, 717-733	7.2	33
72	Relaxed 3D genome conformation facilitates the pluripotent to totipotent-like state transition in embryonic stem cells. *Nucleic Acids Research*, **2021**, 49, 12167-12177	20.1	5
71	The RNA mA reader YTHDC1 silences retrotransposons and guards ES cell identity. *Nature*, **2021**, 591, 322-326	50.4	45
70	Global Profiling of the Lysine Crotonylome in Different Pluripotent States. *Genomics, Proteomics and Bioinformatics*, **2021**, 19, 80-93	6.5	3
69	Identifying transposable element expression dynamics and heterogeneity during development at the single-cell level with a processing pipeline scTE. *Nature Communications*, **2021**, 12, 1456	17.4	15
68	COVID-19 immune features revealed by a large-scale single-cell transcriptome atlas. *Cell*, **2021**, 184, 1895-1913	66.9	1510
67	AP-1 activity is a major barrier of human somatic cell reprogramming. *Cellular and Molecular Life Sciences*, **2021**, 78, 5847-5863	10.3	
66	SARS-CoV-2 envelope protein causes acute respiratory distress syndrome (ARDS)-like pathological damages and constitutes an antiviral target. *Cell Research*, **2021**, 31, 847-860	24.7	24
65	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. *Cell Research*, **2021**, 31, 17-24	24.7	43
64	Rapid generation of ACE2 humanized inbred mouse model for COVID-19 with tetraploid complementation. *National Science Review*, **2021**, 8, nwaa285	10.8	8
63	SS18 regulates pluripotent-somatic transition through phase separation. *Nature Communications*, **2021**, 12, 4090	17.4	5
62	Transposable element sequence fragments incorporated into coding and noncoding transcripts modulate the transcriptome of human pluripotent stem cells. *Nucleic Acids Research*, **2021**, 49, 9132-9153	20.1	1
61	Systematic calibration of epitranscriptomic maps using a synthetic modification-free RNA library. *Nature Methods*, **2021**, 18, 1213-1222	21.6	4

60	Characterization and generation of human definitive multipotent hematopoietic stem/progenitor cells. *Cell Discovery*, **2020**, 6, 89	22.3	8
59	BMP4 resets mouse epiblast stem cells to naive pluripotency through ZBTB7A/B-mediated chromatin remodelling. *Nature Cell Biology*, **2020**, 22, 651-662	23.4	13
58	Generation of a Broadly Useful Model for COVID-19 Pathogenesis, Vaccination, and Treatment. *Cell* , **2020**, 182, 734-743.e5	56.2	264
57	Perspectives on somatic reprogramming: spotlighting epigenetic regulation and cellular heterogeneity. *Current Opinion in Genetics and Development*, **2020**, 64, 21-25	4.9	2
56	CG14906 (mettl4) mediates mA methylation of U2 snRNA in. *Cell Discovery*, **2020**, 6, 44	22.3	16
55	Concurrent binding to DNA and RNA facilitates the pluripotency reprogramming activity of Sox2. *Nucleic Acids Research*, **2020**, 48, 3869-3887	20.1	6
54	Guiding T lymphopoiesis from pluripotent stem cells by defined transcription factors. *Cell Research*, **2020**, 30, 21-33	24.7	21
53	SETDB1-Mediated Cell Fate Transition between 2C-Like and Pluripotent States. *Cell Reports*, **2020**, 30, 25-36.e6	10.6	27
52	A Virus-Infected, Reprogrammed Somatic Cell-Derived Tumor Cell (VIReST) Vaccination Regime Can Prevent Initiation and Progression of Pancreatic Cancer. *Clinical Cancer Research*, **2020**, 26, 465-476	12.9	10
51	JMJD3 acts in tandem with KLF4 to facilitate reprogramming to pluripotency. *Nature Communications*, **2020**, 11, 5061	17.4	11
50	Single-cell analysis reveals bronchoalveolar epithelial dysfunction in COVID-19 patients. *Protein and Cell*, **2020**, 11, 680-687	7.2	41
49	DNA Damage Induces Dynamic Associations of BRD4/P-TEFb With Chromatin and Modulates Gene Transcription in a BRD4-Dependent and -Independent Manner. *Frontiers in Molecular Biosciences*, **2020**, 7, 618088	5.6	1
48	Epithelial-Mesenchymal Transition and Metabolic Switching in Cancer: Lessons From Somatic Cell Reprogramming. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 760	5.7	17
47	YTHDF2/3 Are Required for Somatic Reprogramming through Different RNA Deadenylation Pathways. *Cell Reports*, **2020**, 32, 108120	10.6	19
46	Induction of Pluripotent Stem Cells from Mouse Embryonic Fibroblasts by Jdp2-Jhdm1b-Mkk6-Glis1-Nanog-Essrb-Sall4. *Cell Reports*, **2019**, 27, 3473-3485.e5	10.6	22
45	Pluripotency reprogramming by competent and incompetent POU factors uncovers temporal dependency for Oct4 and Sox2. *Nature Communications*, **2019**, 10, 3477	17.4	33
44	Vitamin C-dependent lysine demethylase 6 (KDM6)-mediated demethylation promotes a chromatin state that supports the endothelial-to-hematopoietic transition. *Journal of Biological Chemistry*, **2019**, 294, 13657-13670	5.4	24
43	Resolving Cell Fate Decisions during Somatic Cell Reprogramming by Single-Cell RNA-Seq. *Molecular Cell*, **2019**, 73, 815-829.e7	17.6	43

42	Transposable elements are regulated by context-specific patterns of chromatin marks in mouse embryonic stem cells. *Nature Communications*, **2019**, 10, 34	17.4	50
41	Chromatin Accessibility Dynamics during Chemical Induction of Pluripotency. *Cell Stem Cell*, **2018**, 22, 529-542.e5	18	47
40	XIST Derepression in Active X Chromosome Hinders Pig Somatic Cell Nuclear Transfer. *Stem Cell Reports*, **2018**, 10, 494-508	8	34
39	Transcription factor Hoxb5 reprograms B cells into functional T lymphocytes. *Nature Immunology*, **2018**, 19, 279-290	19.1	24
38	Mouse embryonic stem cells resist c-Jun induced differentiation when in suspension. *Cell Regeneration*, **2018**, 7, 16-21	2.5	
37	Generating a reporter mouse line marking medium spiny neurons in the developing striatum driven by Arpp21 cis-regulatory elements. *Journal of Genetics and Genomics*, **2018**, 45, 673-676	4	1
36	BMI1 enables interspecies chimerism with human pluripotent stem cells. *Nature Communications*, **2018**, 9, 4649	17.4	20
35	The Battle between TET Proteins and DNA Methylation for the Right Cell. *Trends in Cell Biology*, **2018**, 28, 973-975	18.3	4
34	Pyrimidoindole derivative UM171 enhances derivation of hematopoietic progenitor cells from human pluripotent stem cells. *Stem Cell Research*, **2017**, 21, 32-39	1.6	16
33	Chemical reprogramming of mouse embryonic and adult fibroblast into endoderm lineage. *Journal of Biological Chemistry*, **2017**, 292, 19122-19132	5.4	11
32	Passive DNA demethylation preferentially up-regulates pluripotency-related genes and facilitates the generation of induced pluripotent stem cells. *Journal of Biological Chemistry*, **2017**, 292, 18542-18553	5.4	14
31	PRC2 specifies ectoderm lineages and maintains pluripotency in primed but not naïve ESCs. *Nature Communications*, **2017**, 8, 672	17.4	55
30	Chromatin Accessibility Dynamics during iPSC Reprogramming. *Cell Stem Cell*, **2017**, 21, 819-833.e6	18	108
29	Kdm2b Regulates Somatic Reprogramming through Variant PRC1 Complex-Dependent Function. *Cell Reports*, **2017**, 21, 2160-2170	10.6	24
28	Models of global gene expression define major domains of cell type and tissue identity. *Nucleic Acids Research*, **2017**, 45, 2354-2367	20.1	31
27	Epigenetic Landmarks During Somatic Reprogramming. *IUBMB Life*, **2016**, 68, 854-857	4.7	2
26	Gadd45a is a heterochromatin relaxer that enhances iPS cell generation. *EMBO Reports*, **2016**, 17, 1641-1656	6.9	22
25	The oncogene c-Jun impedes somatic cell reprogramming. *Nature Cell Biology*, **2015**, 17, 856-67	23.4	75

24	Failure to replicate the STAP cell phenomenon. *Nature*, **2015**, 525, E6-9	50.4	34
23	Cyclin-dependent kinase-mediated Sox2 phosphorylation enhances the ability of Sox2 to establish the pluripotent state. *Journal of Biological Chemistry*, **2015**, 290, 22782-94	5.4	31
22	The p53-induced lincRNA-p21 derails somatic cell reprogramming by sustaining H3K9me3 and CpG methylation at pluripotency gene promoters. *Cell Research*, **2015**, 25, 80-92	24.7	137
21	EGF promotes mammalian cell growth by suppressing cellular senescence. *Cell Research*, **2015**, 25, 135-8	24.7	28
20	Dynamically reorganized chromatin is the key for the reprogramming of somatic cells to pluripotent cells. *Scientific Reports*, **2015**, 5, 17691	4.9	16
19	OP9-Lhx2 stromal cells facilitate derivation of hematopoietic progenitors both in vitro and in vivo. *Stem Cell Research*, **2015**, 15, 395-402	1.6	6
18	Reprogramming somatic cells to cells with neuronal characteristics by defined medium both in vitro and in vivo. *Cell Regeneration*, **2015**, 4, 12	2.5	12
17	Enforced expression of Hoxa5 in haematopoietic stem cells leads to aberrant erythropoiesis in vivo. *Cell Cycle*, **2015**, 14, 612-20	4.7	10
16	Tet and TDG mediate DNA demethylation essential for mesenchymal-to-epithelial transition in somatic cell reprogramming. *Cell Stem Cell*, **2014**, 14, 512-22	18	241
15	Vitamin C modulates TET1 function during somatic cell reprogramming. *Nature Genetics*, **2013**, 45, 1504-9	36.3	214
14	H3K9 methylation is a barrier during somatic cell reprogramming into iPSCs. *Nature Genetics*, **2013**, 45, 34-42	36.3	379
13	Sequential introduction of reprogramming factors reveals a time-sensitive requirement for individual factors and a sequential EMT-MET mechanism for optimal reprogramming. *Nature Cell Biology*, **2013**, 15, 829-38	23.4	165
12	EMT and MET as paradigms for cell fate switching. *Journal of Molecular Cell Biology*, **2012**, 4, 66-9	6.3	32
11	Rapamycin and other longevity-promoting compounds enhance the generation of mouse induced pluripotent stem cells. *Aging Cell*, **2011**, 10, 908-11	9.9	164
10	BMPs functionally replace Klf4 and support efficient reprogramming of mouse fibroblasts by Oct4 alone. *Cell Research*, **2011**, 21, 205-12	24.7	102
9	Reprogramming of mouse and human somatic cells by high-performance engineered factors. *EMBO Reports*, **2011**, 12, 373-8	6.5	75
8	Lithium, an anti-psychotic drug, greatly enhances the generation of induced pluripotent stem cells. *Cell Research*, **2011**, 21, 1424-35	24.7	90
7	Rational optimization of reprogramming culture conditions for the generation of induced pluripotent stem cells with ultra-high efficiency and fast kinetics. *Cell Research*, **2011**, 21, 884-94	24.7	66

6	Towards an optimized culture medium for the generation of mouse induced pluripotent stem cells. *Journal of Biological Chemistry*, **2010**, 285, 31066-72	5.4	51
5	Vitamin C enhances the generation of mouse and human induced pluripotent stem cells. *Cell Stem Cell*, **2010**, 6, 71-9	18	762
4	A mesenchymal-to-epithelial transition initiates and is required for the nuclear reprogramming of mouse fibroblasts. *Cell Stem Cell*, **2010**, 7, 51-63	18	902
3	Generation of induced pluripotent stem cell lines from Tibetan miniature pig. *Journal of Biological Chemistry*, **2009**, 284, 17634-40	5.4	319
2	Unveiling transposable element expression heterogeneity in cell fate regulation at the single-cell level		1
1	Human Embryonic Stem Cell-derived Lung Organoids: a Model for SARS-CoV-2 Infection and Drug Test		4