

# Xiao-Yang Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

3,840  
citations

304368

22  
h-index

189595

50  
g-index

53  
all docs

53  
docs citations

53  
times ranked

4937  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of Gene-Modified Cynomolgus Monkey via Cas9/RNA-Mediated Gene Targeting in One-Cell Embryos. <i>Cell</i> , 2014, 156, 836-843.	13.5	930
2	iPS cells produce viable mice through tetraploid complementation. <i>Nature</i> , 2009, 461, 86-90.	13.7	737
3	Complete Meiosis from Embryonic Stem Cell-Derived Germ Cells In Vitro. <i>Cell Stem Cell</i> , 2016, 18, 330-340.	5.2	327
4	Single-Cell RNA Sequencing Analysis Reveals Sequential Cell Fate Transition during Human Spermatogenesis. <i>Cell Stem Cell</i> , 2018, 23, 599-614.e4.	5.2	309
5	Atg7 is required for acrosome biogenesis during spermatogenesis in mice. <i>Cell Research</i> , 2014, 24, 852-869.	5.7	213
6	Androgenetic haploid embryonic stem cells produce live transgenic mice. <i>Nature</i> , 2012, 490, 407-411.	13.7	149
7	CellCall: integrating paired ligand-receptor and transcription factor activities for cell-cell communication. <i>Nucleic Acids Research</i> , 2021, 49, 8520-8534.	6.5	102
8	One-step generation of p53 gene biallelic mutant Cynomolgus monkey via the CRISPR/Cas system. <i>Cell Research</i> , 2015, 25, 258-261.	5.7	91
9	Genetic Modification and Screening in Rat Using Haploid Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2014, 14, 404-414.	5.2	85
10	ATG3-dependent autophagy mediates mitochondrial homeostasis in pluripotency acquirement and maintenance. <i>Autophagy</i> , 2016, 12, 2000-2008.	4.3	79
11	Mitochondrial Dynamics Is Critical for the Full Pluripotency and Embryonic Developmental Potential of Pluripotent Stem Cells. <i>Cell Metabolism</i> , 2019, 29, 979-992.e4.	7.2	72
12	RNAlocate v2.0: an updated resource for RNA subcellular localization with increased coverage and annotation. <i>Nucleic Acids Research</i> , 2022, 50, D333-D339.	6.5	54
13	Viable Fertile Mice Generated from Fully Pluripotent iPS Cells Derived from Adult Somatic Cells. <i>Stem Cell Reviews and Reports</i> , 2010, 6, 390-397.	5.6	48
14	Cellinker: a platform of ligand-receptor interactions for intercellular communication analysis. <i>Bioinformatics</i> , 2021, 37, 2025-2032.	1.8	47
15	Generation and Application of Mouse-Rat Allodiploid Embryonic Stem Cells. <i>Cell</i> , 2016, 164, 279-292.	13.5	46
16	Treatment of multiple sclerosis by transplantation of neural stem cells derived from induced pluripotent stem cells. <i>Science China Life Sciences</i> , 2016, 59, 950-957.	2.3	40
17	Accreditation of Biosafe Clinical-Grade Human Embryonic Stem Cells According to Chinese Regulations. <i>Stem Cell Reports</i> , 2017, 9, 366-380.	2.3	40
18	Production of mice using iPS cells and tetraploid complementation. <i>Nature Protocols</i> , 2010, 5, 963-971.	5.5	37

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19	Germline acquisition of Cas9/RNA-mediated gene modifications in monkeys. <i>Cell Research</i> , 2015, 25, 262-265.	5.7	32
20	Cell-fate transition and determination analysis of mouse male germ cells throughout development. <i>Nature Communications</i> , 2021, 12, 6839.	5.8	31
21	MiniCAFE, a CRISPR/Cas9-based compact and potent transcriptional activator, elicits gene expression <i>in vivo</i> . <i>Nucleic Acids Research</i> , 2021, 49, 4171-4185.	6.5	28
22	Efficient and rapid generation of induced pluripotent stem cells using an alternative culture medium. <i>Cell Research</i> , 2010, 20, 383-386.	5.7	27
23	Generation of Stable Induced Pluripotent Stem-like Cells from Adult Zebra Fish Fibroblasts. <i>International Journal of Biological Sciences</i> , 2019, 15, 2340-2349.	2.6	22
24	Derivation of embryonic stem cells from Brown Norway rats blastocysts. <i>Journal of Genetics and Genomics</i> , 2010, 37, 467-473.	1.7	21
25	Vangl2 limits chaperone-mediated autophagy to balance osteogenic differentiation in mesenchymal stem cells. <i>Developmental Cell</i> , 2021, 56, 2103-2120.e9.	3.1	20
26	Durable pluripotency and haploidy in epiblast stem cells derived from haploid embryonic stem cells <i>in vitro</i> . <i>Journal of Molecular Cell Biology</i> , 2015, 7, 326-337.	1.5	19
27	Sheng-Mai Yin exerts anti-inflammatory effects on RAW 264.7 cells and zebrafish. <i>Journal of Ethnopharmacology</i> , 2021, 267, 113497.	2.0	19
28	Deciphering the autophagy regulatory network via single-cell transcriptome analysis reveals a requirement for autophagy homeostasis in spermatogenesis. <i>Theranostics</i> , 2021, 11, 5010-5027.	4.6	19
29	RNAPhaSep: a resource of RNAs undergoing phase separation. <i>Nucleic Acids Research</i> , 2022, 50, D340-D346.	6.5	18
30	Generation of fertile offspring from Kitw/Kit <sup>w</sup> mice through differentiation of gene corrected nuclear transfer embryonic stem cells. <i>Cell Research</i> , 2015, 25, 851-863.	5.7	17
31	ViRBase v3.0: a virus and host ncRNA-associated interaction repository with increased coverage and annotation. <i>Nucleic Acids Research</i> , 2022, 50, D928-D933.	6.5	16
32	Rat embryonic stem cells produce fertile offspring through tetraploid complementation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11974-11979.	3.3	15
33	Inhibition of Syk promotes chemical reprogramming of fibroblasts via metabolic rewiring and H <sub>2</sub> S production. <i>EMBO Journal</i> , 2021, 40, e106771.	3.5	15
34	Engineered Cas12a-Plus nuclease enables gene editing with enhanced activity and specificity. <i>BMC Biology</i> , 2022, 20, 91.	1.7	15
35	The chromatin accessibility landscape reveals distinct transcriptional regulation in the induction of human primordial germ cell-like cells from pluripotent stem cells. <i>Stem Cell Reports</i> , 2021, 16, 1245-1261.	2.3	14
36	Autotetraploid cell Line induced by SP600125 from crucian carp and its developmental potentiality. <i>Scientific Reports</i> , 2016, 6, 21814.	1.6	13

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37	Immunogenicity and functional evaluation of iPSC-derived organs for transplantation. <i>Cell Discovery</i> , 2015, 1, 15015.	3.1	12
38	Derivation of a Homozygous Human Androgenetic Embryonic Stem Cell Line. <i>Stem Cells and Development</i> , 2015, 24, 2307-2316.	1.1	12
39	Efficient generation of human primordial germ cell-like cells from pluripotent stem cells in a methylcellulose-based 3D system at large scale. <i>PeerJ</i> , 2019, 6, e6143.	0.9	12
40	Generation of Transgenic Rats through Induced Pluripotent Stem Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 27150-27158.	1.6	10
41	Mitochondrial complex I deficiency leads to the retardation of early embryonic development in <i>Ndufs4</i> knockout mice. <i>PeerJ</i> , 2017, 5, e3339.	0.9	9
42	The histone demethylase KDM2B regulates human primordial germ cell-like cells specification. <i>International Journal of Biological Sciences</i> , 2021, 17, 527-538.	2.6	4
43	Association between single nucleotide polymorphism of rs1937 in TFAM gene and longevity among the elderly Chinese population: based on the CLHLS study. <i>BMC Geriatrics</i> , 2022, 22, 16.	1.1	3
44	Cloning efficiency following ES cell nuclear transfer is influenced by the methylation state of the donor nucleus altered by mutation of DNA methyltransferase 3a and 3b. <i>Frontiers in Biology</i> , 2010, 5, 439-444.	0.7	2
45	Derivation of androgenetic embryonic stem cells from m-carboxycinnamic acid bishydroxamide (CBHA) treated androgenetic embryos. <i>Science Bulletin</i> , 2013, 58, 2862-2868.	1.7	2
46	Generation of tetraploid complementation mice from embryonic stem cells cultured with chemical defined medium. <i>Science Bulletin</i> , 2014, 59, 2743-2748.	1.7	2
47	BMP4 drives primed to naïve transition through PGC-like state. <i>Nature Communications</i> , 2022, 13, 2756.	5.8	2
48	RNA Guided Genome Editing in Mouse Germ-Line Stem Cells. <i>Journal of Genetics and Genomics</i> , 2014, 41, 409-411.	1.7	1
49	Derivation of Non-Integration Induced Pluripotent Stem Cells from Fibroblast of Severe Deafness Patients with GJB2 Mutation. <i>Journal of Genetics and Genomics</i> , 2015, 42, 455-458.	1.7	1
50	Gamete differentiation from pluripotent stem cells. <i>National Science Review</i> , 2017, 4, 525-528.	4.6	1