

# Xiao-Yang Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

3,840  
citations

304743

22  
h-index

189892

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.	28.9	930
2	iPS cells produce viable mice through tetraploid complementation. <i>Nature</i> , 2009, 461, 86-90.	27.8	737
3	Complete Meiosis from Embryonic Stem Cell-Derived Germ Cells In Vitro. <i>Cell Stem Cell</i> , 2016, 18, 330-340.	11.1	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.	11.1	309
5	Atg7 is required for acrosome biogenesis during spermatogenesis in mice. <i>Cell Research</i> , 2014, 24, 852-869.	12.0	213
6	Androgenetic haploid embryonic stem cells produce live transgenic mice. <i>Nature</i> , 2012, 490, 407-411.	27.8	149
7	CellCall: integrating paired ligand-receptor and transcription factor activities for cell-cell communication. <i>Nucleic Acids Research</i> , 2021, 49, 8520-8534.	14.5	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.	12.0	91
9	Genetic Modification and Screening in Rat Using Haploid Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2014, 14, 404-414.	11.1	85
10	ATG3-dependent autophagy mediates mitochondrial homeostasis in pluripotency acquirement and maintenance. <i>Autophagy</i> , 2016, 12, 2000-2008.	9.1	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.	16.2	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.	14.5	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.	4.1	47
15	Generation and Application of Mouse-Rat Allodiploid Embryonic Stem Cells. <i>Cell</i> , 2016, 164, 279-292.	28.9	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.	4.9	40
17	Accreditation of Biosafe Clinical-Grade Human Embryonic Stem Cells According to Chinese Regulations. <i>Stem Cell Reports</i> , 2017, 9, 366-380.	4.8	40
18	Production of mice using iPS cells and tetraploid complementation. <i>Nature Protocols</i> , 2010, 5, 963-971.	12.0	37

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19	Germline acquisition of Cas9/RNA-mediated gene modifications in monkeys. <i>Cell Research</i> , 2015, 25, 262-265.	12.0	32
20	Cell-fate transition and determination analysis of mouse male germ cells throughout development. <i>Nature Communications</i> , 2021, 12, 6839.	12.8	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.	14.5	28
22	Efficient and rapid generation of induced pluripotent stem cells using an alternative culture medium. <i>Cell Research</i> , 2010, 20, 383-386.	12.0	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.	6.4	22
24	Derivation of embryonic stem cells from Brown Norway rats blastocysts. <i>Journal of Genetics and Genomics</i> , 2010, 37, 467-473.	3.9	21
25	Vangl2 limits chaperone-mediated autophagy to balance osteogenic differentiation in mesenchymal stem cells. <i>Developmental Cell</i> , 2021, 56, 2103-2120.e9.	7.0	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.	3.3	19
27	Sheng-Mai Yin exerts anti-inflammatory effects on RAW 264.7 cells and zebrafish. <i>Journal of Ethnopharmacology</i> , 2021, 267, 113497.	4.1	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.	10.0	19
29	RNAPhaSep: a resource of RNAs undergoing phase separation. <i>Nucleic Acids Research</i> , 2022, 50, D340-D346.	14.5	18
30	Generation of fertile offspring from Kitw/Kitwv mice through differentiation of gene corrected nuclear transfer embryonic stem cells. <i>Cell Research</i> , 2015, 25, 851-863.	12.0	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.	14.5	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.	7.1	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.	7.8	15
34	Engineered Cas12a-Plus nuclease enables gene editing with enhanced activity and specificity. <i>BMC Biology</i> , 2022, 20, 91.	3.8	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.	4.8	14
36	Autotetraploid cell Line induced by SP600125 from crucian carp and its developmental potentiality. <i>Scientific Reports</i> , 2016, 6, 21814.	3.3	13

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37	Immunogenicity and functional evaluation of iPSC-derived organs for transplantation. Cell Discovery, 2015, 1, 15015.	6.7	12
38	Derivation of a Homozygous Human Androgenetic Embryonic Stem Cell Line. Stem Cells and Development, 2015, 24, 2307-2316.	2.1	12
39	Efficient generation of human primordial germ cell-like cells from pluripotent stem cells in a methylcellulose-based 3D system at large scale. PeerJ, 2019, 6, e6143.	2.0	12
40	Generation of Transgenic Rats through Induced Pluripotent Stem Cells. Journal of Biological Chemistry, 2013, 288, 27150-27158.	3.4	10
41	Mitochondrial complex I deficiency leads to the retardation of early embryonic development in <i>Ndufs4</i> knockout mice. PeerJ, 2017, 5, e3339.	2.0	9
42	The histone demethylase KDM2B regulates human primordial germ cell-like cells specification. International Journal of Biological Sciences, 2021, 17, 527-538.	6.4	4
43	Association between single nucleotide polymorphism of rs1937 in TFAM gene and longevity among the elderly Chinese population: based on the CLHLS study. BMC Geriatrics, 2022, 22, 16.	2.7	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. Frontiers in Biology, 2010, 5, 439-444.	0.7	2
45	Derivation of androgenetic embryonic stem cells from m-carboxycinnamic acid bishydroxamide (CBHA) treated androgenetic embryos. Science Bulletin, 2013, 58, 2862-2868.	1.7	2
46	Generation of tetraploid complementation mice from embryonic stem cells cultured with chemical defined medium. Science Bulletin, 2014, 59, 2743-2748.	1.7	2
47	BMP4 drives primed to naïve transition through PGC-like state. Nature Communications, 2022, 13, 2756.	12.8	2
48	RNA Guided Genome Editing in Mouse Germ-Line Stem Cells. Journal of Genetics and Genomics, 2014, 41, 409-411.	3.9	1
49	Derivation of Non-Integration Induced Pluripotent Stem Cells from Fibroblast of Severe Deafness Patients with GJB2 Mutation. Journal of Genetics and Genomics, 2015, 42, 455-458.	3.9	1
50	Gamete differentiation from pluripotent stem cells. National Science Review, 2017, 4, 525-528.	9.5	1