

Jianguo Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,169
citations

361413

20
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

2864
citing authors

#	ARTICLE	IF	CITATIONS
1	The Dynamic Distribution of Porcine Microbiota across Different Ages and Gastrointestinal Tract Segments. <i>PLoS ONE</i> , 2015, 10, e0117441.	2.5	349
2	Significant Improvement in Cloning Efficiency of an Inbred Miniature Pig by Histone Deacetylase Inhibitor Treatment after Somatic Cell Nuclear Transfer ¹ . <i>Biology of Reproduction</i> , 2009, 81, 525-530.	2.7	216
3	Reconstitution of <i>UCP1</i> using CRISPR/Cas9 in the white adipose tissue of pigs decreases fat deposition and improves thermogenic capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9474-E9482.	7.1	137
4	Generation of an Inbred Miniature Pig Model of Retinitis Pigmentosa. , 2012, 53, 501.		134
5	Histone Deacetylase Inhibitors Improve <i>In Vitro</i> and <i>In Vivo</i> Developmental Competence of Somatic Cell Nuclear Transfer Porcine Embryos. <i>Cellular Reprogramming</i> , 2010, 12, 75-83.	0.9	132
6	Gene targeting with zinc finger nucleases to produce cloned eGFP knockout pigs. <i>Molecular Reproduction and Development</i> , 2011, 78, 2-2.	2.0	104
7	One-step generation of triple gene-targeted pigs using CRISPR/Cas9 system. <i>Scientific Reports</i> , 2016, 6, 20620.	3.3	101
8	A chemical approach for global protein knockdown from mice to non-human primates. <i>Cell Discovery</i> , 2019, 5, 10.	6.7	87
9	Cold adaptation in pigs depends on UCP3 in beige adipocytes. <i>Journal of Molecular Cell Biology</i> , 2017, 9, 364-375.	3.3	68
10	Genome editing in large animals: current status and future prospects. <i>National Science Review</i> , 2019, 6, 402-420.	9.5	63
11	Efficient CRISPR/Cas9-mediated biallelic gene disruption and site-specific knockin after rapid selection of highly active sgRNAs in pigs. <i>Scientific Reports</i> , 2015, 5, 13348.	3.3	62
12	Efficient bi-allelic gene knockout and site-specific knock-in mediated by TALENs in pigs. <i>Scientific Reports</i> , 2014, 4, 6926.	3.3	57
13	BIX-01294 increases pig cloning efficiency by improving epigenetic reprogramming of somatic cell nuclei. <i>Reproduction</i> , 2016, 151, 39-49.	2.6	51
14	Impairment of Preimplantation Porcine Embryo Development by Histone Demethylase KDM5B Knockdown Through Disturbance of Bivalent H3K4me3-H3K27me3 Modifications ¹ . <i>Biology of Reproduction</i> , 2015, 92, 72.	2.7	46
15	Optimization of square-wave electroporation for transfection of porcine fetal fibroblasts. <i>Transgenic Research</i> , 2010, 19, 611-620.	2.4	42
16	Genome editing revolutionize the creation of genetically modified pigs for modeling human diseases. <i>Human Genetics</i> , 2016, 135, 1093-1105.	3.8	41
17	Thyroid hormone regulates hematopoiesis via the TR-KLF9 axis. <i>Blood</i> , 2017, 130, 2161-2170.	1.4	40
18	Pilot study of large-scale production of mutant pigs by ENU mutagenesis. <i>ELife</i> , 2017, 6, .	6.0	32

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19	Creation of miniature pig model of human Waardenburg syndrome type 2A by ENU mutagenesis. <i>Human Genetics</i> , 2017, 136, 1463-1475.	3.8	28
20	Mitochondrial uncoupling protein 1 antagonizes atherosclerosis by blocking NLRP3 inflammasome-dependent interleukin-1 β production. <i>Science Advances</i> , 2021, 7, eabl4024.	10.3	27
21	PPAR β is regulated by miR-27b-3p negatively and plays an important role in porcine oocyte maturation. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 224-230.	2.1	25
22	MicroRNA-199b inhibits melatonin synthesis by acting as a linking molecule between leptin and norepinephrine signaling pathways in pig pineal gland. <i>Journal of Pineal Research</i> , 2019, 66, e12552.	7.4	25
23	H2B ubiquitination: Conserved molecular mechanism, diverse physiologic functions of the E3 ligase during meiosis. <i>Nucleus</i> , 2017, 8, 461-468.	2.2	22
24	Enhanced protective immunity against SARS-CoV-2 elicited by a VSV vector expressing a chimeric spike protein. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 389.	17.1	21
25	A 2-bp insertion (c.67_68insCC) in MC1R causes recessive white coat color in Bama miniature pigs. <i>Journal of Genetics and Genomics</i> , 2017, 44, 215-217.	3.9	20
26	CRISPR editing in biological and biomedical investigation. <i>Journal of Cellular Physiology</i> , 2018, 233, 3875-3891.	4.1	19
27	The asynchronous establishment of chromatin 3D architecture between in vitro fertilized and uniparental preimplantation pig embryos. <i>Genome Biology</i> , 2020, 21, 203.	8.8	16
28	Stearoyl-CoA Desaturase Is Essential for Porcine Adipocyte Differentiation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2446.	4.1	15
29	Rescuing ocular development in an anophthalmic pig by blastocyst complementation. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	14
30	One-step base editing in multiple genes by direct embryo injection for pig trait improvement. <i>Science China Life Sciences</i> , 2022, 65, 739-752.	4.9	14
31	Adipocyte-specific disruption of ATPase copper transporting β in mice accelerates lipodystrophy. <i>Diabetologia</i> , 2019, 62, 2340-2353.	6.3	13
32	Cross-species single-cell transcriptomic analysis reveals divergence of cell composition and functions in mammalian ileum epithelium. <i>Cell Regeneration</i> , 2022, 11, 19.	2.6	13
33	Adipose lipidomics and RNA-Seq analysis revealed the enhanced mitochondrial function in UCP1 knock-in pigs. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 1375-1383.	2.4	12
34	Cytosine Base Editor (hA3A-BE3-NG)-Mediated Multiple Gene Editing for Pyramid Breeding in Pigs. <i>Frontiers in Genetics</i> , 2020, 11, 592623.	2.3	12
35	<i>Epg5</i> deficiency leads to primary ovarian insufficiency due to WT1 accumulation in mouse granulosa cells. <i>Autophagy</i> , 2023, 19, 644-659.	9.1	12
36	Engineering protein processing of the mammary gland to produce abundant hemophilia B therapy in milk. <i>Scientific Reports</i> , 2015, 5, 14176.	3.3	11

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37	Rnf20 deficiency in adipocyte impairs adipose tissue development and thermogenesis. <i>Protein and Cell</i> , 2021, 12, 475-492.	11.0	11
38	CRISPR/Cas13d-mediated efficient KDM5B mRNA knockdown in porcine somatic cells and parthenogenetic embryos. <i>Reproduction</i> , 2021, 162, 149-160.	2.6	11
39	A harlequin ichthyosis pig model with a novel ABCA12 mutation can be rescued by acitretin treatment. <i>Journal of Molecular Cell Biology</i> , 2019, 11, 1029-1041.	3.3	10
40	CRISPR/Cas9-mediated correction of MITF homozygous point mutation in a Waardenburg syndrome 2A pig model. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 24, 986-999.	5.1	10
41	Formation of thermogenic adipocytes: What we have learned from pigs. <i>Fundamental Research</i> , 2021, 1, 495-502.	3.3	8
42	A novel porcine model reproduces human oculocutaneous albinism type II. <i>Cell Discovery</i> , 2019, 5, 48.	6.7	7
43	Establishment of porcine and monkey colonic organoids for drug toxicity study. <i>Cell Regeneration</i> , 2021, 10, 32.	2.6	7
44	RNF20 affects porcine adipocyte differentiation via regulation of mitotic clonal expansion. <i>Cell Proliferation</i> , 2021, 54, e13131.	5.3	6
45	Mapping the B cell epitopes within the major capsid protein L1 of human papillomavirus type 16. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1354-1361.	7.5	5
46	UCP1 Knockin Induces Lipid Dynamics and Transcriptional Programs in the Skeletal Muscles of Pigs. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 808095.	3.7	5
47	An exonic splicing enhancer mutation in <i>DUOX2</i> causes aberrant alternative splicing and severe congenital hypothyroidism in Bama pigs. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	4
48	RepSox Increases Porcine Cloning Efficiency by Improving Pluripotency of Donor Nuclei. <i>Cellular Reprogramming</i> , 2019, 21, 181-186.	0.9	2
49	Functional and Genetic Characterization of Porcine Beige Adipocytes. <i>Cells</i> , 2022, 11, 751.	4.1	2