Liangxue Lai

List of Publications by Year
in descending order

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112 papers	5,129 citations	126708 33 h-index	98622 67 g-index
114 all docs	114 docs citations	114 times ranked	5187 citing authors

#	Article	IF	Citations
1	Versatile and efficient inÂvivo genome editing with compact Streptococcus pasteurianus Cas9. Molecular Therapy, 2022, 30, 256-267.	3.7	16
2	Highly efficient A-to-G base editing by ABE8.17 in rabbits. Molecular Therapy - Nucleic Acids, 2022, 27, 1156-1163.	2.3	4
3	Inhibition of base editors with anti-deaminases derived from viruses. Nature Communications, 2022, 13, 597.	5.8	5
4	Inducible caspase-9 suicide gene under control of endogenous oct4 to safeguard mouse and human pluripotent stem cell therapy. Molecular Therapy - Methods and Clinical Development, 2022, 24, 332-341.	1.8	8
5	Live imaging of RNA and RNA splicing in mammalian cells via the dcas13a-SunTag-BiFC system. Biosensors and Bioelectronics, 2022, 204, 114074.	5.3	10
6	Elimination of Cas9-dependent off-targeting of adenine base editor by using TALE to separately guide deaminase to target sites. Cell Discovery, 2022, 8, 28.	3.1	6
7	Human induced-T-to-natural killer cells have potent anti-tumour activities. Biomarker Research, 2022, 10, 13.	2.8	4
8	Efficient C-to-G Base Editing with Improved Target Compatibility Using Engineered Deaminaseâ€“nCas9 Fusions. CRISPR Journal, 2022, 5, 389-396.	1.4	12
9	Efficient multi-nucleotide deletions using deaminase-Cas9 fusions in human cells. Journal of Genetics and Genomics, 2022, , .	1.7	0
10	Eliminating predictable DNA off-target effects of cytosine base editor by using dual guiders including sgRNA and TALE. Molecular Therapy, 2022, 30, 2443-2451.	3.7	7
11	Generating functional cells through enhanced interspecies chimerism withÂhuman pluripotent stem cells. Stem Cell Reports, 2022, 17, 1059-1069.	2.3	5
12	AGBE: a dual deaminase-mediated base editor by fusing CGBE with ABE for creating a saturated mutant population with multiple editing patterns. Nucleic Acids Research, 2022, 50, 5384-5399.	6.5	29
13	Double knock-in pig models with elements of binary Tet-On and phiC31 integrase systems for controllable and switchable gene expression. Science China Life Sciences, 2022, 65, 2269-2286.	2.3	6
14	Compact Cje3Cas9 for Efficient In Vivo Genome Editing and Adenine Base Editing. CRISPR Journal, 2022, 5, 472-486.	1.4	15
15	Improving the Cpf1-mediated base editing system by combining dCas9/dead sgRNA with human APOBEC3A variants. Journal of Genetics and Genomics, 2021, 48, 92-95.	1.7	4
16	CRISPR/Cas9-Mediated Gene Correction in Newborn Rabbits with Hereditary Tyrosinemia Type I. Molecular Therapy, 2021, 29, 1001-1015.	3.7	14
17	Development of a rabbit model of Wiskottâ€Aldrich syndrome. FASEB Journal, 2021, 35, e21226.	0.2	1
18	CRISPR/Cas9-mediated Î²-globin gene knockout in rabbits recapitulates human Î²-thalassemia. Journal of Biological Chemistry, 2021, 296, 100464.	1.6	7

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19	Efficient and high-fidelity base editor with expanded PAM compatibility for cytidine dinucleotide. Science China Life Sciences, 2021, 64, 1355-1367.	2.3	26
20	In vivo genome editing in mouse restores dystrophin expression in Duchenne muscular dystrophy patient muscle fibers. Genome Medicine, 2021, 13, 57.	3.6	11
21	Efficient and precise generation of Tayâ€“Sachs disease model in rabbit by prime editing system. Cell Discovery, 2021, 7, 50.	3.1	19
22	The combination of dextran sulphate and polyvinyl alcohol prevents excess aggregation and promotes proliferation of pluripotent stem cells in suspension culture. Cell Proliferation, 2021, 54, e13112.	2.4	6
23	Reduced off-target effect of NG-BE4max by using NG-HiFi system. Molecular Therapy - Nucleic Acids, 2021, 25, 168-172.	2.3	3
24	Generation of permanent neonatal diabetes mellitus dogs with glucokinase point mutations through base editing. Cell Discovery, 2021, 7, 92.	3.1	6
25	Simple and Rapid Assembly of TALE Modules Based on the Degeneracy of the Codons and Trimer Repeats. Genes, 2021, 12, 1761.	1.0	4
26	Genetic deletion of a short fragment of glucokinase in rabbit by CRISPR/Cas9 leading to hyperglycemia and other typical features seen in MODY-2. Cellular and Molecular Life Sciences, 2020, 77, 3265-3277.	2.4	14
27	Highly efficient base editing with expanded targeting scope using SpCas9â€NG in rabbits. FASEB Journal, 2020, 34, 588-596.	0.2	18
28	Engineered Pigs Carrying a Gain-of-Function NLRP3 Homozygous Mutation Can Survive to Adulthood and Accurately Recapitulate Human Systemic Spontaneous Inflammatory Responses. Journal of Immunology, 2020, 205, 2532-2544.	0.4	8
29	Robustly improved base editing efficiency of Cpf1 base editor using optimized cytidine deaminases. Cell Discovery, 2020, 6, 62.	3.1	5
30	AcrIIA5 Suppresses Base Editors and Reduces Their Off-Target Effects. Cells, 2020, 9, 1786.	1.8	24
31	CRISPR Start-Loss: A Novel and Practical Alternative for Gene Silencing through Base-Editing-Induced Start Codon Mutations. Molecular Therapy - Nucleic Acids, 2020, 21, 1062-1073.	2.3	16
32	Large-Fragment Deletions Induced by Cas9 Cleavage while Not in the BEs System. Molecular Therapy - Nucleic Acids, 2020, 21, 523-526.	2.3	48
33	A novel N6-methyladenosine (m6A)-dependent fate decision for the lncRNA THOR. Cell Death and Disease, 2020, 11, 613.	2.7	86
34	A tunable, rapid, and precise drug control of protein expression by combining transcriptional and post-translational regulation systems. Journal of Genetics and Genomics, 2020, 47, 705-712.	1.7	1
35	Precise base editing with CC context-specificity using engineered human APOBEC3G-nCas9 fusions. BMC Biology, 2020, 18, 111.	1.7	28
36	ACBE, a new base editor for simultaneous C-to-T and A-to-G substitutions in mammalian systems. BMC Biology, 2020, 18, 131.	1.7	41

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37	CRISPR/Cas9-mediated Disruption of Fibroblast Growth Factor 5 in Rabbits Results in a Systemic Long Hair Phenotype by Prolonging Anagen. Genes, 2020, 11, 297.	1.0	11
38	The minimal promoter (P1) of Xist is non-essential for X chromosome inactivation. RNA Biology, 2020, 17, 623-629.	1.5	1
39	Efficient base editing with high precision in rabbits using YFE-BE4max. Cell Death and Disease, 2020, 11, 36.	2.7	25
40	Generation of rat blood vasculature and hematopoietic cells in rat-mouse chimeras by blastocyst complementation. Journal of Genetics and Genomics, 2020, 47, 249-261.	1.7	19
41	The disrupted balance between hair follicles and sebaceous glands in Hoxc13 â€ablated rabbits. FASEB Journal, 2019, 33, 1226-1234.	0.2	18
42	Circular RNA profile in liver tissue of EpCAM knockout mice. International Journal of Molecular Medicine, 2019, 44, 1063-1077.	1.8	8
43	Efficient base editing for multiple genes and loci in pigs using base editors. Nature Communications, 2019, 10, 2852.	5.8	82
44	Genome editing in large animals: current status and future prospects. National Science Review, 2019, 6, 402-420.	4.6	63
45	LMNA-mutated Rabbits: A Model of Premature Aging Syndrome with Muscular Dystrophy and Dilated Cardiomyopathy. , 2019, 10, 102.		15
46	Mutations of GADD45G in rabbits cause cleft lip by the disorder of proliferation, apoptosis and epithelial-mesenchymal transition (EMT). Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2356-2367.	1.8	11
47	Establishment of porcine and human expanded potential stem cells. Nature Cell Biology, 2019, 21, 687-699.	4.6	261
48	Efficient and precise base editing in rabbits using human APOBEC3A-nCas9 fusions. Cell Discovery, 2019, 5, 31.	3.1	22
49	Improved base editor for efficient editing in GC contexts in rabbits with an optimized AIDâ€Cas9 fusion. FASEB Journal, 2019, 33, 9210-9219.	0.2	26
50	Expanded targeting scope and enhanced base editing efficiency in rabbit using optimized xCas9(3.7). Cellular and Molecular Life Sciences, 2019, 76, 4155-4164.	2.4	7
51	Establishment of geneâ€edited pigs expressing human bloodâ€coagulation factor VII and albumin for bioartificial liver use. Journal of Gastroenterology and Hepatology (Australia), 2019, 34, 1851-1859.	1.4	13
52	DMP1 Ablation in the Rabbit Results in Mineralization Defects and Abnormalities in Haversian Canal/Osteon Microarchitecture. Journal of Bone and Mineral Research, 2019, 34, 1115-1128.	3.1	25
53	Efficient base editing with expanded targeting scope using an engineered Spy-mac Cas9 variant. Cell Discovery, 2019, 5, 58.	3.1	14
54	Truncated C-terminus of fibrillin-1 induces Marfanoid-progeroid-lipodystrophy (MPL) syndrome in rabbit. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	18

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55	Engineering CRISPR/Cpf1 with tRNA promotes genome editing capability in mammalian systems. Cellular and Molecular Life Sciences, 2018, 75, 3593-3607.	2.4	33
56	XIST Derepression in Active X Chromosome Hinders Pig Somatic Cell Nuclear Transfer. Stem Cell Reports, 2018, 10, 494-508.	2.3	54
57	Generation of ApoE deficient dogs via combination of embryo injection of CRISPR/Cas9 with somatic cell nuclear transfer. Journal of Genetics and Genomics, 2018, 45, 47-50.	1.7	23
58	A Huntingtin Knockin Pig Model Recapitulates Features of Selective Neurodegeneration in Huntingtonâ€™s Disease. Cell, 2018, 173, 989-1002.e13.	13.5	231
59	BMI1 enables interspecies chimerism with human pluripotent stem cells. Nature Communications, 2018, 9, 4649.	5.8	38
60	Genetically modified pigs are protected from classical swine fever virus. PLoS Pathogens, 2018, 14, e1007193.	2.1	60
61	Functional validation of the albinism-associated tyrosinase T373K SNP by CRISPR/Cas9-mediated homology-directed repair (HDR) in rabbits. EBioMedicine, 2018, 36, 517-525.	2.7	19
62	CRISPR-induced exon skipping is dependent on premature termination codon mutations. Genome Biology, 2018, 19, 164.	3.8	39
63	Development of muscular dystrophy in a CRISPR-engineered mutant rabbit model with frame-disrupting ANO5 mutations. Cell Death and Disease, 2018, 9, 609.	2.7	29
64	Corrigendum. G3: Genes, Genomes, Genetics, 2018, 8, 2833-2840.	0.8	19
65	Highly efficient RNA-guided base editing in rabbit. Nature Communications, 2018, 9, 2717.	5.8	119
66	A novel rabbit model of Duchenne muscular dystrophy generated by CRISPR/Cas9. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	63
67	Fumarylacetoacetate Hydrolase Knock-out Rabbit Model for Hereditary Tyrosinemia Type 1. Journal of Biological Chemistry, 2017, 292, 4755-4763.	1.6	15
68	Generation of Human Liver Chimeric Mice with Hepatocytes from Familial Hypercholesterolemia Induced Pluripotent Stem Cells. Stem Cell Reports, 2017, 8, 605-618.	2.3	27
69	CRISPR/Cas9-mediated mutation of tyrosinase (Tyr) 3â€² UTR induce graying in rabbit. Scientific Reports, 2017, 7, 1569.	1.6	19
70	Altered expression of eNOS, prostacyclin synthase, prostaglandin G/H synthase, and thromboxane synthase in porcine aortic endothelial cells after exposure to human serumâ€”relevance to xenotransplantation. Cell Biology International, 2017, 41, 798-808.	1.4	3
71	Generation of an ASGR1 homozygous mutant human embryonic stem cell line WAe001-A-6 using CRISPR/Cas9. Stem Cell Research, 2017, 22, 29-32.	0.3	1
72	CRISPR/Cas9-Mediated Deletion of Foxn1 in NOD/SCID/IL2rgâˆ’/âˆ’ Mice Results in Severe Immunodeficiency. Scientific Reports, 2017, 7, 7720.	1.6	12

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73	Generation of two MEN1 knockout lines from a human embryonic stem cell line. Stem Cell Research, 2017, 24, 169-173.	0.3	0
74	Generation of three miR-122 knockout lines from a human embryonic stem cell line. Stem Cell Research, 2017, 24, 164-168.	0.3	1
75	Cre-dependent Cas9-expressing pigs enable efficient in vivo genome editing. Genome Research, 2017, 27, 2061-2071.	2.4	54
76	CRISPR/Cas9â€“Mediated Mutation of Î±A-Crystallin Gene Induces Congenital Cataracts in Rabbits. , 2017, 58, BIO34.		26
77	Large-scale genomic deletions mediated by CRISPR/Cas9 system. Oncotarget, 2017, 8, 5647-5647.	0.8	9
78	Mutation of the Sp1 binding site in the 5â€² flanking region of SRY causes sex reversal in rabbits. Oncotarget, 2017, 8, 38176-38183.	0.8	23
79	Generation of Knock-In Pigs Carrying Oct4-tdTomato Reporter through CRISPR/Cas9-Mediated Genome Engineering. PLoS ONE, 2016, 11, e0146562.	1.1	32
80	Generation of an Abcc8 heterozygous mutation human embryonic stem cell line using CRISPR/Cas9. Stem Cell Research, 2016, 17, 670-672.	0.3	6
81	Conversion of embryonic stem cells into extraembryonic lineages by CRISPR-mediated activators. Scientific Reports, 2016, 6, 19648.	1.6	28
82	Generation of Hoxc13 knockout pigs recapitulates human ectodermal dysplasiaâ€“9. Human Molecular Genetics, 2016, 26, ddw378.	1.4	22
83	CRISPR/Cas9-mediated mutation ofPHEXin rabbit recapitulates human X-linked hypophosphatemia (XLH). Human Molecular Genetics, 2016, 25, ddw125.	1.4	42
84	Generation of an Abcc8 homozygous mutation human embryonic stem cell line using CRISPR/Cas9. Stem Cell Research, 2016, 17, 640-642.	0.3	3
85	Efficient Generation of Myostatin Gene Mutated Rabbit by CRISPR/Cas9. Scientific Reports, 2016, 6, 25029.	1.6	102
86	CRISPR/Cas9-mediated GJA8 knockout in rabbits recapitulates human congenital cataracts. Scientific Reports, 2016, 6, 22024.	1.6	54
87	Efficient dual sgRNA-directed large gene deletion in rabbit with CRISPR/Cas9 system. Cellular and Molecular Life Sciences, 2016, 73, 2959-2968.	2.4	83
88	D-repeat in theXISTgene is required for X chromosome inactivation. RNA Biology, 2016, 13, 172-176.	1.5	24
89	Genetically humanized pigs exclusively expressing human insulin are generated through custom endonuclease-mediated seamless engineering. Journal of Molecular Cell Biology, 2016, 8, 174-177.	1.5	41
90	Tandem repeat knockout utilizing the CRISPR/Cas9 system in human cells. Gene, 2016, 582, 122-127.	1.0	4

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91	Faithful expression of imprinted genes in donor cells of SCNT cloned pigs. FEBS Letters, 2015, 589, 2066-2072.	1.3	2
92	Loss of Angiopoietin-like 7 diminishes the regeneration capacity of hematopoietic stem and progenitor cells. Journal of Hematology and Oncology, 2015, 8, 7.	6.9	21
93	Autophagy and mTORC1 regulate the stochastic phase of somatic cell reprogramming. Nature Cell Biology, 2015, 17, 715-725.	4.6	81
94	ANGPTL7 regulates the expansion and repopulation of human hematopoietic stem and progenitor cells. Haematologica, 2015, 100, 585-594.	1.7	38
95	Generation of gene-target dogs using CRISPR/Cas9 system. Journal of Molecular Cell Biology, 2015, 7, 580-583.	1.5	105
96	Cytoplasmic mislocalization of RNA splicing factors and aberrant neuronal gene splicing in TDP-43 transgenic pig brain. Molecular Neurodegeneration, 2015, 10, 42.	4.4	45
97	Generation of CRISPR/Cas9-mediated gene-targeted pigs via somatic cell nuclear transfer. Cellular and Molecular Life Sciences, 2015, 72, 1175-1184.	2.4	202
98	Establishment of a Rabbit Oct4 Promoter-Based EGFP Reporter System. PLoS ONE, 2014, 9, e109728.	1.1	8
99	Effective gene targeting in rabbits using RNA-guided Cas9 nucleases. Journal of Molecular Cell Biology, 2014, 6, 97-99.	1.5	143
100	Aberrant Expression of Xist in Aborted Porcine Fetuses Derived from Somatic Cell Nuclear Transfer Embryos. International Journal of Molecular Sciences, 2014, 15, 21631-21643.	1.8	9
101	Species-dependent neuropathology in transgenic SOD1 pigs. Cell Research, 2014, 24, 464-481.	5.7	44
102	Generation of multi-gene knockout rabbits using the Cas9/gRNA system. Cell Regeneration, 2014, 3, 3:12.	1.1	81
103	Generation of knockout rabbits using transcription activator-like effector nucleases. Cell Regeneration, 2014, 3, 3:3.	1.1	34
104	Rosa26-targeted swine models for stable gene over-expression and Cre-mediated lineage tracing. Cell Research, 2014, 24, 501-504.	5.7	77
105	Disruption of imprinted gene expression and DNA methylation status in porcine parthenogenetic fetuses and placentas. Gene, 2014, 547, 351-358.	1.0	13
106	RAG1/2 Knockout Pigs with Severe Combined Immunodeficiency. Journal of Immunology, 2014, 193, 1496-1503.	0.4	82
107	Scriptaid affects histone acetylation and the expression of development-related genes at different stages of porcine somatic cell nuclear transfer embryo during early development. Science Bulletin, 2013, 58, 2044-2052.	1.7	7
108	Genetically Modified Pig Models for Human Diseases. Journal of Genetics and Genomics, 2013, 40, 67-73.	1.7	87

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109	Generation of RAG 1- and 2-deficient rabbits by embryo microinjection of TALENs. Cell Research, 2013, 23, 1059-1062.	5.7	69
110	Highly Efficient Generation of GGTA1 Biallelic Knockout Inbred Mini-Pigs with TALENs. PLoS ONE, 2013, 8, e84250.	1.1	76
111	Expression of Huntington's disease protein results in apoptotic neurons in the brains of cloned transgenic pigs. Human Molecular Genetics, 2010, 19, 3983-3994.	1.4	140
112	Production of alpha -1,3-Galactosyltransferase Knockout Pigs by Nuclear Transfer Cloning. Science, 2002, 295, 1089-1092.	6.0	1,248