Hui Yang

List of Publications by Citations

59 papers	7,812 citations	26 h-index	70 g-index
70 ext. papers	9,475 ext. citations	18.5 avg, IF	5.94 L-index

#	Paper	IF	Citations
59	One-step generation of mice carrying mutations in multiple genes by CRISPR/Cas-mediated genome engineering. *Cell*, **2013**, 153, 910-8	56.2	2571
58	One-step generation of mice carrying reporter and conditional alleles by CRISPR/Cas-mediated genome engineering. *Cell*, **2013**, 154, 1370-9	56.2	1194
57	The role of Tet3 DNA dioxygenase in epigenetic reprogramming by oocytes. *Nature*, **2011**, 477, 606-10	50.4	820
56	Multiplexed activation of endogenous genes by CRISPR-on, an RNA-guided transcriptional activator system. *Cell Research*, **2013**, 23, 1163-71	24.7	546
55	Cytosine base editor generates substantial off-target single-nucleotide variants in mouse embryos. *Science*, **2019**, 364, 289-292	33.3	381
54	Generating genetically modified mice using CRISPR/Cas-mediated genome engineering. *Nature Protocols*, **2014**, 9, 1956-68	18.8	352
53	Off-target RNA mutation induced by DNA base editing and its elimination by mutagenesis. *Nature*, **2019**, 571, 275-278	50.4	207
52	Homology-mediated end joining-based targeted integration using CRISPR/Cas9. *Cell Research*, **2017** , 27, 801-814	24.7	165
51	Glia-to-Neuron Conversion by CRISPR-CasRx Alleviates Symptoms of Neurological Disease in Mice. *Cell*, **2020**, 181, 590-603.e16	56.2	134
50	Generation of genetically modified mice by oocyte injection of androgenetic haploid embryonic stem cells. *Cell*, **2012**, 149, 605-17	56.2	133
49	In vivo simultaneous transcriptional activation of multiple genes in the brain using CRISPR-dCas9-activator transgenic mice. *Nature Neuroscience*, **2018**, 21, 440-446	25.5	124
48	One-step generation of complete gene knockout mice and monkeys by CRISPR/Cas9-mediated gene editing with multiple sgRNAs. *Cell Research*, **2017**, 27, 933-945	24.7	110
47	Zscan4 promotes genomic stability during reprogramming and dramatically improves the quality of iPS cells as demonstrated by tetraploid complementation. *Cell Research*, **2013**, 23, 92-106	24.7	110
46	CRISPR/Cas9-mediated targeted chromosome elimination. *Genome Biology*, **2017**, 18, 224	18.3	93
45	Generation of haploid embryonic stem cells from Macaca fascicularis monkey parthenotes. *Cell Research*, **2013**, 23, 1187-200	24.7	85
44	Tild-CRISPR Allows for Efficient and Precise Gene Knockin in Mouse and Human Cells. *Developmental Cell*, **2018**, 45, 526-536.e5	10.2	76
43	A dual inhibition: microRNA-552 suppresses both transcription and translation of cytochrome P450 2E1. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2016**, 1859, 650-62	6	71

42	CRISPR/Cas9 - Mediated Precise Targeted Integration In Vivo Using a Double Cut Donor with Short Homology Arms. *EBioMedicine*, **2017**, 20, 19-26	8.8	49
41	A rationally engineered cytosine base editor retains high on-target activity while reducing both DNA and RNA off-target effects. *Nature Methods*, **2020**, 17, 600-604	21.6	47
40	Highly efficient base editing in human tripronuclear zygotes. *Protein and Cell*, **2017**, 8, 772-775	7.2	44
39	Programmable RNA editing with compact CRISPR-Cas13 systems from uncultivated microbes. *Nature Methods*, **2021**, 18, 499-506	21.6	38
38	Defects in trophoblast cell lineage account for the impaired in vivo development of cloned embryos generated by somatic nuclear transfer. *Cell Stem Cell*, **2011**, 8, 371-5	18	35
37	Advances in detecting and reducing off-target effects generated by CRISPR-mediated genome editing. *Journal of Genetics and Genomics*, **2019**, 46, 513-521	4	30
36	Simultaneous zygotic inactivation of multiple genes in mouse through CRISPR/Cas9-mediated base editing. *Development (Cambridge)*, **2018**, 145,	6.6	30
35	Generation of knock-in cynomolgus monkey via CRISPR/Cas9 editing. *Cell Research*, **2018**, 28, 379-382	24.7	29
34	Modulation of metabolic functions through Cas13d-mediated gene knockdown in liver. *Protein and Cell*, **2020**, 11, 518-524	7.2	27
33	Lentiviral delivery of co-packaged Cas9 mRNA and a Vegfa-targeting guide RNA prevents wet age-related macular degeneration in mice. *Nature Biomedical Engineering*, **2021**, 5, 144-156	19	26
32	Gene-edited babies: What went wrong and what could go wrong. *PLoS Biology*, **2019**, 17, e3000224	9.7	22
31	Different developmental potential of pluripotent stem cells generated by different reprogramming strategies. *Journal of Molecular Cell Biology*, **2011**, 3, 197-9	6.3	21
30	Base editing-mediated splicing correction therapy for spinal muscular atrophy. *Cell Research*, **2020**, 30, 548-550	24.7	18
29	UBE3A-mediated PTPA ubiquitination and degradation regulate PP2A activity and dendritic spine morphology. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 12500-12505	11.5	17
28	Human cleaving embryos enable robust homozygotic nucleotide substitutions by base editors. *Genome Biology*, **2019**, 20, 101	18.3	16
27	Questions about NgAgo. *Protein and Cell*, **2016**, 7, 913-915	7.2	16
26	Conversion of Astrocytes and Fibroblasts into Functional Noradrenergic Neurons. *Cell Reports*, **2019**, 28, 682-697.e7	10.6	16
25	CasRx-mediated RNA targeting prevents choroidal neovascularization in a mouse model of age-related macular degeneration. *National Science Review*, **2020**, 7, 835-837	10.8	15

24	High-efficiency somatic reprogramming induced by intact MII oocytes. *Cell Research*, **2010**, 20, 1034-42	24.7	15
23	Base-Editing-Mediated R17H Substitution in Histone H3 Reveals Methylation-Dependent Regulation of Yap Signaling and Early Mouse Embryo Development. *Cell Reports*, **2019**, 26, 302-312.e4	10.6	14
22	GOTI, a method to identify genome-wide off-target effects of genome editing in mouse embryos. *Nature Protocols*, **2020**, 15, 3009-3029	18.8	11
21	Recent advances in CRISPR research. *Protein and Cell*, **2020**, 11, 786-791	7.2	10
20	Recent advances in mammalian reproductive biology. *Science China Life Sciences*, **2020**, 63, 18-58	8.5	10
19	CRISPR/Cas9-mediated Targeted Integration In Vivo Using a Homology-mediated End Joining-based Strategy. *Journal of Visualized Experiments*, **2018**,	1.6	9
18	Haploid embryonic stem cells: an ideal tool for mammalian genetic analyses. *Protein and Cell*, **2012**, 3, 806-10	7.2	9
17	A Cas-embedding strategy for minimizing off-target effects of DNA base editors. *Nature Communications*, **2020**, 11, 6073	17.4	9
16	Screened AAV variants permit efficient transduction access to supporting cells and hair cells. *Cell Discovery*, **2019**, 5, 49	22.3	8
15	Disruption of splicing-regulatory elements using CRISPR/Cas9 to rescue spinal muscular atrophy in human iPSCs and mice. *National Science Review*, **2020**, 7, 92-101	10.8	7
14	Mice generated after round spermatid injection into haploid two-cell blastomeres. *Cell Research*, **2011**, 21, 854-8	24.7	6
13	Endogenous promoter-driven sgRNA for monitoring the expression of low-abundance transcripts and lncRNAs. *Nature Cell Biology*, **2021**, 23, 99-108	23.4	6
12	Indiscriminate ssDNA cleavage activity of CRISPR-Cas12a induces no detectable off-target effects in mouse embryos. *Protein and Cell*, **2021**, 12, 741-745	7.2	5
11	Mitochondrial base editor DdCBE causes substantial DNA off-target editing in nuclear genome of embryos.. *Cell Discovery*, **2022**, 8, 27	22.3	4
10	Human cleaving embryos enable efficient mitochondrial base-editing with DdCBE.. *Cell Discovery*, **2022**, 8, 7	22.3	3
9	CRISPR/Cas: a potential gene-editing tool in the nervous system. *Cell Regeneration*, **2020**, 9, 12	2.5	3
8	A phosphorylation of RIPK3 kinase initiates an intracellular apoptotic pathway that promotes prostaglandin-induced corpus luteum regression. *ELife*, **2021**, 10,	8.9	3
7	Precise genome editing without exogenous donor DNA via retron editing system in human cells. *Protein and Cell*, **2021**, 12, 899-902	7.2	3

List of Publications

6	Prediction and Validation of Mouse Meiosis-Essential Genes Based on Spermatogenesis Proteome Dynamics. *Molecular and Cellular Proteomics*, **2021**, 20, 100014	7.6	3
5	Response to "Reproducibility of CRISPR-Cas9 methods for generation of conditional mouse alleles: a multi-center evaluation". *Genome Biology*, **2021**, 22, 98	18.3	2
4	Coordination of two enhancers drives expression of olfactory trace amine-associated receptors. *Nature Communications*, **2021**, 12, 3798	17.4	2
3	Transduction catalysis: Doxorubicin amplifies rAAV-mediated gene expression in the cortex of higher-order vertebrates. *IScience*, **2021**, 24, 102685	6.1	0
2	Perfecting Targeting in CRISPR. *Annual Review of Genetics*, **2021**, 55, 453-477	14.5	0
1	Treatment of autosomal recessive hearing loss via in vivo CRISPR/Cas9-mediated optimized homology-directed repair in mice.. *Cell Research*, **2022**,	24.7	0