

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	2,716 citations	26 h-index	50 g-index
105 ext. papers	4,350 ext. citations	8.7 avg, IF	5.03 L-index

#	Paper	IF	Citations
92	Inactivation of porcine endogenous retrovirus in pigs using CRISPR-Cas9. <i>Science</i> , 2017 , 357, 1303-1307	33.3	395
91	Single-Cell Transcriptome Atlas of Murine Endothelial Cells. <i>Cell</i> , 2020 , 180, 764-779.e20	56.2	281
90	An atlas of the protein-coding genes in the human, pig, and mouse brain. <i>Science</i> , 2020 , 367,	33.3	130
89	SARS-CoV2-mediated suppression of NRF2-signaling reveals potent antiviral and anti-inflammatory activity of 4-octyl-itaconate and dimethyl fumarate. <i>Nature Communications</i> , 2020 , 11, 4938	17.4	122
88	Chromatin accessibility and guide sequence secondary structure affect CRISPR-Cas9 gene editing efficiency. <i>FEBS Letters</i> , 2017 , 591, 1892-1901	3.8	102
87	A simple method for deriving functional MSCs and applied for osteogenesis in 3D scaffolds. <i>Scientific Reports</i> , 2013 , 3, 2243	4.9	95
86	Nrf2 negatively regulates STING indicating a link between antiviral sensing and metabolic reprogramming. <i>Nature Communications</i> , 2018 , 9, 3506	17.4	95
85	An Integrated Gene Expression Landscape Profiling Approach to Identify Lung Tumor Endothelial Cell Heterogeneity and Angiogenic Candidates. <i>Cancer Cell</i> , 2020 , 37, 21-36.e13	24.3	93
84	Genetically modified pigs for biomedical research. <i>Journal of Inherited Metabolic Disease</i> , 2012 , 35, 695-713	5.1	79
83	Mesenchymal stem cells derived from human induced pluripotent stem cells retain adequate osteogenicity and chondrogenicity but less adipogenicity. <i>Stem Cell Research and Therapy</i> , 2015 , 6, 144	8.3	74
82	High efficiency of BRCA1 knockout using rAAV-mediated gene targeting: developing a pig model for breast cancer. <i>Transgenic Research</i> , 2011 , 20, 975-88	3.3	70
81	A single-cell type transcriptomics map of human tissues. <i>Science Advances</i> , 2021 , 7,	14.3	69
80	Genetically modified pig models for neurodegenerative disorders. <i>Journal of Pathology</i> , 2016 , 238, 267-874	9.4	68
79	Single-Cell RNA Sequencing Maps Endothelial Metabolic Plasticity in Pathological Angiogenesis. <i>Cell Metabolism</i> , 2020 , 31, 862-877.e14	24.6	67
78	Patient iPSC-Derived Neurons for Disease Modeling of Frontotemporal Dementia with Mutation in CHMP2B. <i>Stem Cell Reports</i> , 2017 , 8, 648-658	8	52
77	Single-Cell RNA Sequencing Reveals Renal Endothelium Heterogeneity and Metabolic Adaptation to Water Deprivation. <i>Journal of the American Society of Nephrology: JASN</i> , 2020 , 31, 118-138	12.7	50
76	STAT3 associates with vacuolar H-ATPase and regulates cytosolic and lysosomal pH. <i>Cell Research</i> , 2018 , 28, 996-1012	24.7	48

75	Genome-wide determination of on-target and off-target characteristics for RNA-guided DNA methylation by dCas9 methyltransferases. <i>GigaScience</i> , 2018 , 7, 1-19	7.6	43
74	Golden Gate Assembly of CRISPR gRNA expression array for simultaneously targeting multiple genes. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 4315-4325	10.3	38
73	Gene expression responses to FUS, EWS, and TAF15 reduction and stress granule sequestration analyses identifies FET-protein non-redundant functions. <i>PLoS ONE</i> , 2012 , 7, e46251	3.7	35
72	Double-strand breaks in ribosomal RNA genes activate a distinct signaling and chromatin response to facilitate nucleolar restructuring and repair. <i>Nucleic Acids Research</i> , 2019 , 47, 8019-8035	20.1	31
71	The metabolic engine of endothelial cells. <i>Nature Metabolism</i> , 2019 , 1, 937-946	14.6	31
70	Regulation of peripheral clock to oscillation of substance P contributes to circadian inflammatory pain. <i>Anesthesiology</i> , 2012 , 117, 149-60	4.3	30
69	Enhanced genome editing in mammalian cells with a modified dual-fluorescent surrogate system. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 2543-63	10.3	29
68	The Epigenetic Reprogramming Roadmap in Generation of iPSCs from Somatic Cells. <i>Journal of Genetics and Genomics</i> , 2015 , 42, 661-70	4	26
67	Identification and functional characterization of mutations in LPL gene causing severe hypertriglyceridaemia and acute pancreatitis. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 1286-1299	5.6	26
66	Single-Cell Transcriptome Analysis of Uniparental Embryos Reveals Parent-of-Origin Effects on Human Preimplantation Development. <i>Cell Stem Cell</i> , 2019 , 25, 697-712.e6	18	24
65	Osteogenesis of human induced pluripotent stem cells derived mesenchymal stem cells on hydroxyapatite contained nanofibers. <i>RSC Advances</i> , 2014 , 4, 5734	3.7	24
64	An overview and metanalysis of machine and deep learning-based CRISPR gRNA design tools. <i>RNA Biology</i> , 2020 , 17, 13-22	4.8	24
63	CRISPR-C: circularization of genes and chromosome by CRISPR in human cells. <i>Nucleic Acids Research</i> , 2018 , 46, e131	20.1	23
62	Pig gene knockout by rAAV-mediated homologous recombination: comparison of BRCA1 gene knockout efficiency in Yucatan and Göttingen fibroblasts with slightly different target sequences. <i>Transgenic Research</i> , 2012 , 21, 671-6	3.3	20
61	Fusion of SpCas9 to E. coli Rec A protein enhances CRISPR-Cas9 mediated gene knockout in mammalian cells. <i>Journal of Biotechnology</i> , 2017 , 247, 42-49	3.7	19
60	Comparison of gene expression and genome-wide DNA methylation profiling between phenotypically normal cloned pigs and conventionally bred controls. <i>PLoS ONE</i> , 2011 , 6, e25901	3.7	19
59	Modelling of pancreatic cancer biology: transcriptomic signature for 3D PDX-derived organoids and primary cell line organoid development. <i>Scientific Reports</i> , 2020 , 10, 2778	4.9	18
58	Mitochondrial Spare Respiratory Capacity Is Negatively Correlated with Nuclear Reprogramming Efficiency. <i>Stem Cells and Development</i> , 2017 , 26, 166-176	4.4	18

57	Phenotypic diversity and metabolic specialization of renal endothelial cells. <i>Nature Reviews Nephrology</i> , 2021 , 17, 441-464	14.9	18
56	IGF1R depletion facilitates MET-amplification as mechanism of acquired resistance to erlotinib in HCC827 NSCLC cells. <i>Oncotarget</i> , 2017 , 8, 33300-33315	3.3	16
55	Towards Personalized Regenerative Cell Therapy: Mesenchymal Stem Cells Derived from Human Induced Pluripotent Stem Cells. <i>Current Stem Cell Research and Therapy</i> , 2016 , 11, 122-30	3.6	15
54	RNA-Guided Activation of Pluripotency Genes in Human Fibroblasts. <i>Cellular Reprogramming</i> , 2017 , 19, 189-198	2.1	14
53	EWS and FUS bind a subset of transcribed genes encoding proteins enriched in RNA regulatory functions. <i>BMC Genomics</i> , 2015 , 16, 929	4.5	14
52	Enhancing CRISPR-Cas9 gRNA efficiency prediction by data integration and deep learning. <i>Nature Communications</i> , 2021 , 12, 3238	17.4	13
51	Expression profiling reveals a positive regulation by mPer2 on circadian rhythm of cytotoxicity receptors: Ly49C and Nkg2d. <i>Chronobiology International</i> , 2009 , 26, 1514-44	3.6	12
50	A network-based algorithm for the identification of moonlighting noncoding RNAs and its application in sepsis. <i>Briefings in Bioinformatics</i> , 2021 , 22, 581-588	13.4	12
49	Systematic in vitro and in vivo characterization of Leukemia-inhibiting factor- and Fibroblast growth factor-derived porcine induced pluripotent stem cells. <i>Molecular Reproduction and Development</i> , 2017 , 84, 229-245	2.6	11
48	FcRn overexpression in human cancer drives albumin recycling and cell growth; a mechanistic basis for exploitation in targeted albumin-drug designs. <i>Journal of Controlled Release</i> , 2020 , 322, 53-63	11.7	11
47	Targeted genome editing by recombinant adeno-associated virus (rAAV) vectors for generating genetically modified pigs. <i>Journal of Genetics and Genomics</i> , 2012 , 39, 269-74	4	11
46	Cell-Based Therapy for Canavan Disease Using Human iPSC-Derived NPCs and OPCs. <i>Advanced Science</i> , 2020 , 7, 2002155	13.6	11
45	The Effects of Voluntary Physical Exercise-Activated Neurotrophic Signaling in Rat Hippocampus on mRNA Levels of Downstream Signaling Molecules. <i>Journal of Molecular Neuroscience</i> , 2017 , 62, 142-153	3.3	9
44	Targeted, homology-driven gene insertion in stem cells by ZFN-loaded 'all-in-one' lentiviral vectors. <i>ELife</i> , 2016 , 5,	8.9	9
43	Clock-controlled StAR's expression and corticosterone production contribute to the endotoxemia immune response. <i>Chronobiology International</i> , 2015 , 32, 358-67	3.6	8
42	Human RTEL1 associates with Poldip3 to facilitate responses to replication stress and R-loop resolution. <i>Genes and Development</i> , 2020 , 34, 1065-1074	12.6	8
41	Effects of high hydrostatic pressure on genomic expression profiling of porcine parthenogenetic activated and cloned embryos. <i>Reproduction, Fertility and Development</i> , 2014 , 26, 469-84	1.8	8
40	Tumor vessel co-option probed by single-cell analysis. <i>Cell Reports</i> , 2021 , 35, 109253	10.6	8

39	Amino acid-induced gene expression profiling in clonal cell line INS-1E cells. <i>Diabetes/Metabolism Research and Reviews</i> , 2011 , 27, 120-76	7.5	7
38	Feeder-free generation and transcriptome characterization of functional mesenchymal stromal cells from human pluripotent stem cells. <i>Stem Cell Research</i> , 2020 , 48, 101990	1.6	7
37	CRISPR/Cas9-Mediated Gene Tagging: A Step-by-Step Protocol. <i>Methods in Molecular Biology</i> , 2019 , 1961, 255-269	1.4	6
36	Efficient construction of rAAV-based gene targeting vectors by Golden Gate cloning. <i>BioTechniques</i> , 2014 , 56, 263-8	2.5	6
35	Identification of SARS-CoV2-mediated suppression of NRF2 signaling reveals a potent antiviral and anti-inflammatory activity of 4-octyl-itaconate and dimethyl fumarate		6
34	One-step Derivation of Functional Mesenchymal Stem Cells from Human Pluripotent Stem Cells. <i>Bio-protocol</i> , 2018 , 8, e3080	0.9	6
33	Single-cell RNA sequencing technologies and applications: A brief overview.. <i>Clinical and Translational Medicine</i> , 2022 , 12, e694	5.7	6
32	Evaluation of porcine stem cell competence for somatic cell nuclear transfer and production of cloned animals. <i>Animal Reproduction Science</i> , 2017 , 178, 40-49	2.1	5
31	Efficient correction of Duchenne muscular dystrophy mutations by SpCas9 and dual gRNAs. <i>Molecular Therapy - Nucleic Acids</i> , 2021 , 24, 403-415	10.7	5
30	Generation of induced pluripotent stem cells (iPSCs) stably expressing CRISPR-based synergistic activation mediator (SAM). <i>Stem Cell Research</i> , 2016 , 17, 665-669	1.6	5
29	GNL-Scorer: a generalized model for predicting CRISPR on-target activity by machine learning and featurization. <i>Journal of Molecular Cell Biology</i> , 2020 , 12, 909-911	6.3	5
28	Toward the massive genome of <i>Proteus anguinus</i> -illuminating longevity, regeneration, convergent evolution, and metabolic disorders. <i>Annals of the New York Academy of Sciences</i> , 2021 ,	6.5	5
27	Tracking CRISPR's Footprints. <i>Methods in Molecular Biology</i> , 2019 , 1961, 13-28	1.4	4
26	An improved PCR strategy for fast screening of specific and random integrations in rAAV-mediated gene targeted cell clones. <i>BMC Research Notes</i> , 2011 , 4, 246	2.3	4
25	CRISPR-GNL: an improved model for predicting CRISPR activity by machine learning and featurization		4
24	Population Genomics of an Obligately Halophilic Basidiomycete. <i>Frontiers in Microbiology</i> , 2019 , 10, 201957	5.7	4
23	Extrachromosomal circular DNA in cancer: history, current knowledge, and methods.. <i>Trends in Genetics</i> , 2022 ,	8.5	4
22	Rapid and Efficient Gene Deletion by CRISPR/Cas9. <i>Methods in Molecular Biology</i> , 2019 , 1961, 233-247	1.4	3

21	LION: a simple and rapid method to achieve CRISPR gene editing. <i>Cellular and Molecular Life Sciences</i> , 2019 , 76, 2633-2645	10.3	3
20	Haplotyping by CRISPR-mediated DNA circularization (CRISPR-hapC) broadens allele-specific gene editing. <i>Nucleic Acids Research</i> , 2020 , 48, e25	20.1	3
19	Simple method for assembly of CRISPR synergistic activation mediator gRNA expression array. <i>Journal of Biotechnology</i> , 2018 , 274, 54-57	3.7	3
18	Genome-wide annotation of protein-coding genes in pig.. <i>BMC Biology</i> , 2022 , 20, 25	7.3	3
17	A Golden Gate-based Protocol for Assembly of Multiplexed gRNA Expression Arrays for CRISPR/Cas9. <i>Bio-protocol</i> , 2016 , 6,	0.9	3
16	Induced pluripotent stem cells derived from a patient with autosomal dominant familial neurohypophyseal diabetes insipidus caused by a variant in the AVP gene. <i>Stem Cell Research</i> , 2017 , 19, 37-42	1.6	2
15	Functional Evaluation of CRISPR Activity by the Dual-Fluorescent Surrogate System: C-Check. <i>Methods in Molecular Biology</i> , 2019 , 1961, 67-77	1.4	2
14	Identification of BLNK and BTK as mediators of rituximab-induced programmed cell death by CRISPR screens in GCB-subtype diffuse large B-cell lymphoma. <i>Molecular Oncology</i> , 2020 , 14, 1978-1997	7.9	2
13	DNA methylation in peripheral blood cells of pigs cloned by somatic cell nuclear transfer. <i>Cellular Reprogramming</i> , 2011 , 13, 307-14	2.1	2
12	Genetic Protection Modifications: Moving Beyond the Binary Distinction Between Therapy and Enhancement for Human Genome Editing. <i>CRISPR Journal</i> , 2019 , 2, 362-369	2.5	2
11	A Brief Overview of Global Trends in MSC-Based Cell Therapy.. <i>Stem Cell Reviews and Reports</i> , 2022 , 1	7.3	2
10	Central and Peripheral Nervous System Progenitors Derived from Human Pluripotent Stem Cells Reveal a Unique Temporal and Cell-Type Specific Expression of PMCAs. <i>Frontiers in Cell and Developmental Biology</i> , 2018 , 6, 5	5.7	1
9	Identification of SARS-CoV2-mediated suppression of NRF2 signaling reveals a potent antiviral and anti-inflammatory activity of 4-octyl-itaconate and dimethyl fumarate		1
8	A porcine brain-wide RNA editing landscape. <i>Communications Biology</i> , 2021 , 4, 717	6.7	1
7	In vivo evidence that SORL1, encoding the endosomal recycling receptor SORLA, can function as a causal gene in Alzheimer's Disease		1
6	The Dynamic Changes of Transcription Factors During the Development Processes of Human Biparental and Uniparental Embryos. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 709498	5.7	1
5	CRISPR/Cas9 gRNA activity depends on free energy changes and on the target PAM context. <i>Nature Communications</i> , 2022 , 13,	17.4	1
4	Systematical analysis reveals a strong cancer relevance of CREB1-regulated genes. <i>Cancer Cell International</i> , 2021 , 21, 530	6.4	0

- 3 A single-cell approach to engineer CD8+ T cells targeting cytomegalovirus. *Cellular and Molecular Immunology*, **2021**, 18, 1326-1328 15.4 ○
- 2 Circle-Seq reveals genomic and disease-specific hallmarks in urinary cell-free extrachromosomal circular DNAs.. *Clinical and Translational Medicine*, **2022**, 12, e817 5.7 ○
- 1 Targeted Porcine Genome Engineering with TALENs **2015**, 17-33