Yonglun Luo

List of Publications by Year in Descending Order

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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	Genome-wide annotation of protein-coding genes in pig.. *BMC Biology*, **2022**, 20, 25	7.3	3
91	Single-cell RNA sequencing technologies and applications: A brief overview.. *Clinical and Translational Medicine*, **2022**, 12, e694	5.7	6
90	Extrachromosomal circular DNA in cancer: history, current knowledge, and methods.. *Trends in Genetics*, **2022**,	8.5	4
89	A Brief Overview of Global Trends in MSC-Based Cell Therapy.. *Stem Cell Reviews and Reports*, **2022**, 1	7.3	2
88	Circle-Seq reveals genomic and disease-specific hallmarks in urinary cell-free extrachromosomal circular DNAs.. *Clinical and Translational Medicine*, **2022**, 12, e817	5.7	0
87	CRISPR/Cas9 gRNA activity depends on free energy changes and on the target PAM context. *Nature Communications*, **2022**, 13,	17.4	1
86	Systematical analysis reveals a strong cancer relevance of CREB1-regulated genes. *Cancer Cell International*, **2021**, 21, 530	6.4	0
85	A network-based algorithm for the identification of moonlighting noncoding RNAs and its application in sepsis. *Briefings in Bioinformatics*, **2021**, 22, 581-588	13.4	12
84	Phenotypic diversity and metabolic specialization of renal endothelial cells. *Nature Reviews Nephrology*, **2021**, 17, 441-464	14.9	18
83	Enhancing CRISPR-Cas9 gRNA efficiency prediction by data integration and deep learning. *Nature Communications*, **2021**, 12, 3238	17.4	13
82	Efficient correction of Duchenne muscular dystrophy mutations by SpCas9 and dual gRNAs. *Molecular Therapy - Nucleic Acids*, **2021**, 24, 403-415	10.7	5
81	Tumor vessel co-option probed by single-cell analysis. *Cell Reports*, **2021**, 35, 109253	10.6	8
80	A porcine brain-wide RNA editing landscape. *Communications Biology*, **2021**, 4, 717	6.7	1
79	A single-cell type transcriptomics map of human tissues. *Science Advances*, **2021**, 7,	14.3	69
78	A single-cell approach to engineer CD8+ T cells targeting cytomegalovirus. *Cellular and Molecular Immunology*, **2021**, 18, 1326-1328	15.4	0
77	Toward the massive genome of Proteus anguinus-illuminating longevity, regeneration, convergent evolution, and metabolic disorders. *Annals of the New York Academy of Sciences*, **2021**,	6.5	5
76	The Dynamic Changes of Transcription Factors During the Development Processes of Human Biparental and Uniparental Embryos. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 709498	5.7	1

75	Human RTEL1 associates with Poldip3 to facilitate responses to replication stress and R-loop resolution. *Genes and Development*, **2020**, 34, 1065-1074	12.6	8
74	An atlas of the protein-coding genes in the human, pig, and mouse brain. *Science*, **2020**, 367,	33.3	130
73	FcRn overexpression in human cancer drives albumin recycling and cell growth; a mechanistic basis for exploitation in targeted albumin-drug designs. *Journal of Controlled Release*, **2020**, 322, 53-63	11.7	11
72	Identification of BLNK and BTK as mediators of rituximab-induced programmed cell death by CRISPR screens in GCB-subtype diffuse large B-cell lymphoma. *Molecular Oncology*, **2020**, 14, 1978-1997	7.9	2
71	Modelling of pancreatic cancer biology: transcriptomic signature for 3D PDX-derived organoids and primary cell line organoid development. *Scientific Reports*, **2020**, 10, 2778	4.9	18
70	Single-Cell Transcriptome Atlas of Murine Endothelial Cells. *Cell*, **2020**, 180, 764-779.e20	56.2	281
69	An Integrated Gene Expression Landscape Profiling Approach to Identify Lung Tumor Endothelial Cell Heterogeneity and Angiogenic Candidates. *Cancer Cell*, **2020**, 37, 21-36.e13	24.3	93
68	Haplotyping by CRISPR-mediated DNA circularization (CRISPR-hapC) broadens allele-specific gene editing. *Nucleic Acids Research*, **2020**, 48, e25	20.1	3
67	Single-Cell RNA Sequencing Maps Endothelial Metabolic Plasticity in Pathological Angiogenesis. *Cell Metabolism*, **2020**, 31, 862-877.e14	24.6	67
66	Identification and functional characterization of mutations in LPL gene causing severe hypertriglyceridaemia and acute pancreatitis. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 1286-1299	5.6	26
65	Feeder-free generation and transcriptome characterization of functional mesenchymal stromal cells from human pluripotent stem cells. *Stem Cell Research*, **2020**, 48, 101990	1.6	7
64	SARS-CoV2-mediated suppression of NRF2-signaling reveals potent antiviral and anti-inflammatory activity of 4-octyl-itaconate and dimethyl fumarate. *Nature Communications*, **2020**, 11, 4938	17.4	122
63	Cell-Based Therapy for Canavan Disease Using Human iPSC-Derived NPCs and OPCs. *Advanced Science*, **2020**, 7, 2002155	13.6	11
62	An overview and metanalysis of machine and deep learning-based CRISPR gRNA design tools. *RNA Biology*, **2020**, 17, 13-22	4.8	24
61	Single-Cell RNA Sequencing Reveals Renal Endothelium Heterogeneity and Metabolic Adaptation to Water Deprivation. *Journal of the American Society of Nephrology: JASN*, **2020**, 31, 118-138	12.7	50
60	GNL-Scorer: a generalized model for predicting CRISPR on-target activity by machine learning and featurization. *Journal of Molecular Cell Biology*, **2020**, 12, 909-911	6.3	5
59	Single-Cell Transcriptome Analysis of Uniparental Embryos Reveals Parent-of-Origin Effects on Human Preimplantation Development. *Cell Stem Cell*, **2019**, 25, 697-712.e6	18	24
58	Double-strand breaks in ribosomal RNA genes activate a distinct signaling and chromatin response to facilitate nucleolar restructuring and repair. *Nucleic Acids Research*, **2019**, 47, 8019-8035	20.1	31

57	Rapid and Efficient Gene Deletion by CRISPR/Cas9. *Methods in Molecular Biology*, **2019**, 1961, 233-247	1.4	3
56	CRISPR/Cas9-Mediated Gene Tagging: A Step-by-Step Protocol. *Methods in Molecular Biology*, **2019**, 1961, 255-269	1.4	6
55	Tracking CRISPR's Footprints. *Methods in Molecular Biology*, **2019**, 1961, 13-28	1.4	4
54	Functional Evaluation of CRISPR Activity by the Dual-Fluorescent Surrogate System: C-Check. *Methods in Molecular Biology*, **2019**, 1961, 67-77	1.4	2
53	LION: a simple and rapid method to achieve CRISPR gene editing. *Cellular and Molecular Life Sciences*, **2019**, 76, 2633-2645	10.3	3
52	Genetic Protection Modifications: Moving Beyond the Binary Distinction Between Therapy and Enhancement for Human Genome Editing. *CRISPR Journal*, **2019**, 2, 362-369	2.5	2
51	Population Genomics of an Obligately Halophilic Basidiomycete. *Frontiers in Microbiology*, **2019**, 10, 2019	5.7	4
50	The metabolic engine of endothelial cells. *Nature Metabolism*, **2019**, 1, 937-946	14.6	31
49	Genome-wide determination of on-target and off-target characteristics for RNA-guided DNA methylation by dCas9 methyltransferases. *GigaScience*, **2018**, 7, 1-19	7.6	43
48	Simple method for assembly of CRISPR synergistic activation mediator gRNA expression array. *Journal of Biotechnology*, **2018**, 274, 54-57	3.7	3
47	Central and Peripheral Nervous System Progenitors Derived from Human Pluripotent Stem Cells Reveal a Unique Temporal and Cell-Type Specific Expression of PMCAs. *Frontiers in Cell and Developmental Biology*, **2018**, 6, 5	5.7	1
46	STAT3 associates with vacuolar H-ATPase and regulates cytosolic and lysosomal pH. *Cell Research*, **2018**, 28, 996-1012	24.7	48
45	One-step Derivation of Functional Mesenchymal Stem Cells from Human Pluripotent Stem Cells. *Bio-protocol*, **2018**, 8, e3080	0.9	6
44	CRISPR-C: circularization of genes and chromosome by CRISPR in human cells. *Nucleic Acids Research*, **2018**, 46, e131	20.1	23
43	Nrf2 negatively regulates STING indicating a link between antiviral sensing and metabolic reprogramming. *Nature Communications*, **2018**, 9, 3506	17.4	95
42	Evaluation of porcine stem cell competence for somatic cell nuclear transfer and production of cloned animals. *Animal Reproduction Science*, **2017**, 178, 40-49	2.1	5
41	Induced pluripotent stem cells derived from a patient with autosomal dominant familial neurohypophyseal diabetes insipidus caused by a variant in the AVP gene. *Stem Cell Research*, **2017**, 19, 37-42	1.6	2
40	Patient iPSC-Derived Neurons for Disease Modeling of Frontotemporal Dementia with Mutation in CHMP2B. *Stem Cell Reports*, **2017**, 8, 648-658	8	52

39	Fusion of SpCas9 to E. coli Rec A protein enhances CRISPR-Cas9 mediated gene knockout in mammalian cells. *Journal of Biotechnology*, **2017**, 247, 42-49	3.7	19
38	The Effects of Voluntary Physical Exercise-Activated Neurotrophic Signaling in Rat Hippocampus on mRNA Levels of Downstream Signaling Molecules. *Journal of Molecular Neuroscience*, **2017**, 62, 142-153	3.3	9
37	RNA-Guided Activation of Pluripotency Genes in Human Fibroblasts. *Cellular Reprogramming*, **2017**, 19, 189-198	2.1	14
36	Systematic in vitro and in vivo characterization of Leukemia-inhibiting factor- and Fibroblast growth factor-derived porcine induced pluripotent stem cells. *Molecular Reproduction and Development*, **2017**, 84, 229-245	2.6	11
35	Inactivation of porcine endogenous retrovirus in pigs using CRISPR-Cas9. *Science*, **2017**, 357, 1303-1307	33.3	395
34	Mitochondrial Spare Respiratory Capacity Is Negatively Correlated with Nuclear Reprogramming Efficiency. *Stem Cells and Development*, **2017**, 26, 166-176	4.4	18
33	IGF1R depletion facilitates MET-amplification as mechanism of acquired resistance to erlotinib in HCC827 NSCLC cells. *Oncotarget*, **2017**, 8, 33300-33315	3.3	16
32	Chromatin accessibility and guide sequence secondary structure affect CRISPR-Cas9 gene editing efficiency. *FEBS Letters*, **2017**, 591, 1892-1901	3.8	102
31	Enhanced genome editing in mammalian cells with a modified dual-fluorescent surrogate system. *Cellular and Molecular Life Sciences*, **2016**, 73, 2543-63	10.3	29
30	Towards Personalized Regenerative Cell Therapy: Mesenchymal Stem Cells Derived from Human Induced Pluripotent Stem Cells. *Current Stem Cell Research and Therapy*, **2016**, 11, 122-30	3.6	15
29	A Golden Gate-based Protocol for Assembly of Multiplexed gRNA Expression Arrays for CRISPR/Cas9. *Bio-protocol*, **2016**, 6,	0.9	3
28	Targeted, homology-driven gene insertion in stem cells by ZFN-loaded 'all-in-one' lentiviral vectors. *ELife*, **2016**, 5,	8.9	9
27	Generation of induced pluripotent stem cells (iPSCs) stably expressing CRISPR-based synergistic activation mediator (SAM). *Stem Cell Research*, **2016**, 17, 665-669	1.6	5
26	Golden Gate Assembly of CRISPR gRNA expression array for simultaneously targeting multiple genes. *Cellular and Molecular Life Sciences*, **2016**, 73, 4315-4325	10.3	38
25	Genetically modified pig models for neurodegenerative disorders. *Journal of Pathology*, **2016**, 238, 267-87	9.4	68
24	Targeted Porcine Genome Engineering with TALENs **2015**, 17-33		
23	Clock-controlled StAR's expression and corticosterone production contribute to the endotoxemia immune response. *Chronobiology International*, **2015**, 32, 358-67	3.6	8
22	The Epigenetic Reprogramming Roadmap in Generation of iPSCs from Somatic Cells. *Journal of Genetics and Genomics*, **2015**, 42, 661-70	4	26

21	Mesenchymal stem cells derived from human induced pluripotent stem cells retain adequate osteogenicity and chondrogenicity but less adipogenicity. *Stem Cell Research and Therapy*, **2015**, 6, 144	8.3	74
20	EWS and FUS bind a subset of transcribed genes encoding proteins enriched in RNA regulatory functions. *BMC Genomics*, **2015**, 16, 929	4.5	14
19	Osteogenesis of human induced pluripotent stem cells derived mesenchymal stem cells on hydroxyapatite contained nanofibers. *RSC Advances*, **2014**, 4, 5734	3.7	24
18	Efficient construction of rAAV-based gene targeting vectors by Golden Gate cloning. *BioTechniques*, **2014**, 56, 263-8	2.5	6
17	Effects of high hydrostatic pressure on genomic expression profiling of porcine parthenogenetic activated and cloned embryos. *Reproduction, Fertility and Development*, **2014**, 26, 469-84	1.8	8
16	A simple method for deriving functional MSCs and applied for osteogenesis in 3D scaffolds. *Scientific Reports*, **2013**, 3, 2243	4.9	95
15	Targeted genome editing by recombinant adeno-associated virus (rAAV) vectors for generating genetically modified pigs. *Journal of Genetics and Genomics*, **2012**, 39, 269-74	4	11
14	Regulation of peripheral clock to oscillation of substance P contributes to circadian inflammatory pain. *Anesthesiology*, **2012**, 117, 149-60	4.3	30
13	Pig gene knockout by rAAV-mediated homologous recombination: comparison of BRCA1 gene knockout efficiency in Yucatan and Göttingen fibroblasts with slightly different target sequences. *Transgenic Research*, **2012**, 21, 671-6	3.3	20
12	Genetically modified pigs for biomedical research. *Journal of Inherited Metabolic Disease*, **2012**, 35, 695-713	5.4	79
11	Gene expression responses to FUS, EWS, and TAF15 reduction and stress granule sequestration analyses identifies FET-protein non-redundant functions. *PLoS ONE*, **2012**, 7, e46251	3.7	35
10	High efficiency of BRCA1 knockout using rAAV-mediated gene targeting: developing a pig model for breast cancer. *Transgenic Research*, **2011**, 20, 975-88	3.3	70
9	An improved PCR strategy for fast screening of specific and random integrations in rAAV-mediated gene targeted cell clones. *BMC Research Notes*, **2011**, 4, 246	2.3	4
8	Amino acid-induced gene expression profiling in clonal β-cell line INS-1E cells. *Diabetes/Metabolism Research and Reviews*, **2011**, 27, 120-76	7.5	7
7	DNA methylation in peripheral blood cells of pigs cloned by somatic cell nuclear transfer. *Cellular Reprogramming*, **2011**, 13, 307-14	2.1	2
6	Comparison of gene expression and genome-wide DNA methylation profiling between phenotypically normal cloned pigs and conventionally bred controls. *PLoS ONE*, **2011**, 6, e25901	3.7	19
5	Expression profiling reveals a positive regulation by mPer2 on circadian rhythm of cytotoxicity receptors: Ly49C and Nkg2d. *Chronobiology International*, **2009**, 26, 1514-44	3.6	12
4	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

3	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
2	CRISPR-GNL: an improved model for predicting CRISPR activity by machine learning and featurization	4
1	In vivo evidence that SORL1, encoding the endosomal recycling receptor SORLA, can function as a causal gene in Alzheimer's Disease	1