

Wenqiang Liu

List of Publications by Year in descending order

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37
papers

2,623
citations

394421

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330143

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docs citations

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times ranked

3134
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinct features of H3K4me3 and H3K27me3 chromatin domains in pre-implantation embryos. <i>Nature</i> , 2016, 537, 558-562.	27.8	538
2	Allelic reprogramming of the histone modification H3K4me3 in early mammalian development. <i>Nature</i> , 2016, 537, 553-557.	27.8	516
3	Reprogramming of H3K9me3-dependent heterochromatin during mammalian embryo development. <i>Nature Cell Biology</i> , 2018, 20, 620-631.	10.3	292
4	Stella safeguards the oocyte methylome by preventing de novo methylation mediated by DNMT1. <i>Nature</i> , 2018, 564, 136-140.	27.8	186
5	Identification of key factors conquering developmental arrest of somatic cell cloned embryos by combining embryo biopsy and single-cell sequencing. <i>Cell Discovery</i> , 2016, 2, 16010.	6.7	165
6	Protein Expression Landscape of Mouse Embryos during Pre-implantation Development. <i>Cell Reports</i> , 2017, 21, 3957-3969.	6.4	135
7	FTO mediates LINE1 m ⁶ A demethylation and chromatin regulation in mESCs and mouse development. <i>Science</i> , 2022, 376, 968-973.	12.6	97
8	Nuclear m6A reader YTHDC1 regulates the scaffold function of LINE1 RNA in mouse ESCs and early embryos. <i>Protein and Cell</i> , 2021, 12, 455-474.	11.0	84
9	Inhibition of Aberrant DNA Re-methylation Improves Post-implantation Development of Somatic Cell Nuclear Transfer Embryos. <i>Cell Stem Cell</i> , 2018, 23, 426-435.e5.	11.1	72
10	Dosage effects of ZP2 and ZP3 heterozygous mutations cause human infertility. <i>Human Genetics</i> , 2017, 136, 975-985.	3.8	63
11	Dux-Mediated Corrections of Aberrant H3K9ac during 2-Cell Genome Activation Optimize Efficiency of Somatic Cell Nuclear Transfer. <i>Cell Stem Cell</i> , 2021, 28, 150-163.e5.	11.1	54
12	Distinct H3K9me3 and DNA methylation modifications during mouse spermatogenesis. <i>Journal of Biological Chemistry</i> , 2019, 294, 18714-18725.	3.4	38
13	Maternal Sall4 Is Indispensable for Epigenetic Maturation of Mouse Oocytes. <i>Journal of Biological Chemistry</i> , 2017, 292, 1798-1807.	3.4	37
14	Dcaf11 activates Zscan4-mediated alternative telomere lengthening in early embryos and embryonic stem cells. <i>Cell Stem Cell</i> , 2021, 28, 732-747.e9.	11.1	30
15	Nuclear Exosome Targeting Complex Core Factor Zcchc8 Regulates the Degradation of LINE1 RNA in Early Embryos and Embryonic Stem Cells. <i>Cell Reports</i> , 2019, 29, 2461-2472.e6.	6.4	28
16	N6-methyladenosine regulates maternal RNA maintenance in oocytes and timely RNA decay during mouse maternal-to-zygotic transition. <i>Nature Cell Biology</i> , 2022, 24, 917-927.	10.3	28
17	Unique features of mutations revealed by sequentially reprogrammed induced pluripotent stem cells. <i>Nature Communications</i> , 2015, 6, 6318.	12.8	26
18	Reduced Self-Diploidization and Improved Survival of Semi-cloned Mice Produced from Androgenetic Haploid Embryonic Stem Cells through Overexpression of Dnmt3b. <i>Stem Cell Reports</i> , 2018, 10, 477-493.	4.8	24

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19	Identification and rescue of a novel TUBB8 mutation that causes the first mitotic division defects and infertility. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 2713-2722.	2.5	22
20	Asymmetric Reprogramming Capacity of Parental Pronuclei in Mouse Zygotes. <i>Cell Reports</i> , 2014, 6, 1008-1016.	6.4	21
21	Altered sperm tsRNAs in aged male contribute to anxiety-like behavior in offspring. <i>Aging Cell</i> , 2021, 20, e13466.	6.7	20
22	Accurate annotation of accessible chromatin in mouse and human primordial germ cells. <i>Cell Research</i> , 2018, 28, 1077-1089.	12.0	17
23	IP3R-mediated Ca ²⁺ signals govern hematopoietic and cardiac divergence of Flk1 ⁺ cells via the calcineurin-NFATc3-Etv2 pathway. <i>Journal of Molecular Cell Biology</i> , 2017, 9, 274-288.	3.3	16
24	Pre-pregnancy exposure to fine particulate matter (PM _{2.5}) increases reactive oxygen species production in oocytes and decrease litter size and weight in mice. <i>Environmental Pollution</i> , 2021, 268, 115858.	7.5	15
25	Allele-specific H3K9me ₃ and DNA methylation co-marked CpG-rich regions serve as potential imprinting control regions in pre-implantation embryo. <i>Nature Cell Biology</i> , 2022, 24, 783-792.	10.3	14
26	Aberrant H3K4me ₃ modification of epiblast genes of extraembryonic tissue causes placental defects and implantation failure in mouse IVF embryos. <i>Cell Reports</i> , 2022, 39, 110784.	6.4	12
27	Nucleosome organizations in induced pluripotent stem cells reprogrammed from somatic cells belonging to three different germ layers. <i>BMC Biology</i> , 2014, 12, 109.	3.8	11
28	Melatonin supplementation in the culture medium rescues impaired glucose metabolism in IVF mice offspring. <i>Journal of Pineal Research</i> , 2022, 72, e12778.	7.4	11
29	Direct induction of neural progenitor cells transiently passes through a partially reprogrammed state. <i>Biomaterials</i> , 2017, 119, 53-67.	11.4	10
30	Genome transfer for the prevention of female infertility caused by maternal gene mutation. <i>Journal of Genetics and Genomics</i> , 2020, 47, 311-319.	3.9	9
31	Epigenetic regulation of cell fate transition: learning from early embryo development and somatic cell reprogramming. <i>Biology of Reproduction</i> , 2022, 107, 183-195.	2.7	7
32	Additive-effect pattern of both ZP2 and ZP3 in human and mouse. <i>Human Genetics</i> , 2017, 136, 1493-1495.	3.8	5
33	Pwp1 regulates telomere length by stabilizing shelterin complex and maintaining histone H4K20 trimethylation. <i>Cell Discovery</i> , 2019, 5, 47.	6.7	5
34	Precise allele-specific genome editing by spatiotemporal control of CRISPR-Cas9 via pronuclear transplantation. <i>Nature Communications</i> , 2020, 11, 4593.	12.8	5
35	High throughput sequencing identifies an imprinted gene, Grb10, associated with the pluripotency state in nuclear transfer embryonic stem cells. <i>Oncotarget</i> , 2017, 8, 47344-47355.	1.8	5
36	A DNA methylation state transition model reveals the programmed epigenetic heterogeneity in human pre-implantation embryos. <i>Genome Biology</i> , 2020, 21, 277.	8.8	3

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37	Differential Transcriptomes and Methylomes of Trophoblast Stem Cells From Naturally-Fertilized and Somatic Cell Nuclear-Transferred Embryos. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 664178.	3.7	0