Linlin Liu

List of Publications by Year
in descending order

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111 papers	5,433 citations	81900 39 h-index	91884 69 g-index
116 all docs	116 docs citations	116 times ranked	6580 citing authors

#	Article	IF	Citations
1	Telomere lengthening early in development. Nature Cell Biology, 2007, 9, 1436-1441.	10.3	330
2	Telomere elongation in induced pluripotent stem cells from dyskeratosis congenita patients. Nature, 2010, 464, 292-296.	27.8	302
3	Oxidative Phosphorylation-Dependent and -Independent Oxygen Consumption by Individual Preimplantation Mouse Embryos1. Biology of Reproduction, 2000, 62, 1866-1874.	2.7	223
4	Resveratrol protects against age-associated infertility in mice. Human Reproduction, 2013, 28, 707-717.	0.9	221
5	Mitochondrial dysfunction leads to telomere attrition and genomic instability. Aging Cell, 2002, 1, 40-46.	6.7	211
6	Oxidative Stress Contributes to Arsenic-induced Telomere Attrition, Chromosome Instability, and Apoptosis. Journal of Biological Chemistry, 2003, 278, 31998-32004.	3.4	182
7	Irregular telomeres impair meiotic synapsis and recombination in mice. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6496-6501.	7.1	146
8	A reliable, noninvasive technique for spindle imaging and enucleation of mammalian oocytes. Nature Biotechnology, 2000, 18, 223-225.	17.5	141
9	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.	12.0	124
10	Telomerase deficiency impairs differentiation of mesenchymal stem cells. Experimental Cell Research, 2004, 294, 1-8.	2.6	123
11	Association of telomere length with authentic pluripotency of ES/iPS cells. Cell Research, 2011, 21, 779-792.	12.0	123
12	Ageing-associated aberration in meiosis of oocytes from senescence-accelerated mice. Human Reproduction, 2002, 17, 2678-2685.	0.9	122
13	Germline stem cells and neo-oogenesis in the adult human ovary. Developmental Biology, 2007, 306, 112-120.	2.0	119
14	Telomeres and human reproduction. Fertility and Sterility, 2013, 99, 23-29.	1.0	116
15	BRCA Mutations, DNA Repair Deficiency, and Ovarian Aging1. Biology of Reproduction, 2015, 93, 67.	2.7	116
16	Defective cohesin is associated with age-dependent misaligned chromosomes in oocytes. Reproductive BioMedicine Online, 2008, 16, 103-112.	2.4	113
17	Adult human and mouse ovaries lack DDX4-expressing functional oogonial stem cells. Nature Medicine, 2015, 21, 1116-1118.	30.7	113
18	Rif1 Maintains Telomere Length Homeostasis of ESCs by Mediating Heterochromatin Silencing. Developmental Cell, 2014, 29, 7-19.	7.0	102

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19	Telomeres and reproductive aging. Reproduction, Fertility and Development, 2009, 21, 10.	0.4	97
20	Requirement of functional telomeres for metaphase chromosome alignments and integrity of meiotic spindles. EMBO Reports, 2002, 3, 230-234.	4.5	94
21	Erk signaling is indispensable for genomic stability and self-renewal of mouse embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5936-43.	7.1	88
22	Increased Birefringence in the Meiotic Spindle Provides a New Marker for the Onset of Activation in Living Oocytes1. Biology of Reproduction, 2000, 63, 251-258.	2.7	83
23	Haploidy but Not Parthenogenetic Activation Leads to Increased Incidence of Apoptosis in Mouse Embryos1. Biology of Reproduction, 2002, 66, 204-210.	2.7	82
24	Molecular insights into the heterogeneity of telomere reprogramming in induced pluripotent stem cells. Cell Research, 2012, 22, 757-768.	12.0	77
25	Tet Enzymes Regulate Telomere Maintenance and Chromosomal Stability of Mouse ESCs. Cell Reports, 2016, 15, 1809-1821.	6.4	67
26	Zscan4c activates endogenous retrovirus MERVL and cleavage embryo genes. Nucleic Acids Research, 2019, 47, 8485-8501.	14.5	64
27	Robust measurement of telomere length in single cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1906-12.	7.1	62
28	Birth of Parthenote Mice Directly from Parthenogenetic Embryonic Stem Cells. Stem Cells, 2009, 27, 2136-2145.	3.2	58
29	Effects of cigarette smoke on fertilization and embryo development in vivo. Fertility and Sterility, 2009, 92, 1456-1465.	1.0	55
30	Increased DNA damage and repair deficiency in granulosa cells are associated with ovarian aging in rhesus monkey. Journal of Assisted Reproduction and Genetics, 2015, 32, 1069-1078.	2.5	55
31	Efficient Production of Mice from Embryonic Stem Cells Injected into Four- or Eight-Cell Embryos by Piezo Micromanipulation. Stem Cells, 2008, 26, 1883-1890.	3.2	51
32	Telomere Length Maintenance, Shortening, and Lengthening. Journal of Cellular Physiology, 2014, 229, 1323-1329.	4.1	50
33	Linking Telomere Regulation to Stem Cell Pluripotency. Trends in Genetics, 2017, 33, 16-33.	6.7	50
34	Î±â€Lipoic acid alleviates ferroptosis in the MPP⁺â€induced PC12 cells via activating the PI3K/Akt/Nrf2 pathway. Cell Biology International, 2021, 45, 422-431.	3.0	49
35	LEM4 confers tamoxifen resistance to breast cancer cells by activating cyclin D-CDK4/6-Rb and ERÎ± pathway. Nature Communications, 2018, 9, 4180.	12.8	47
36	Dynamics of Telomere Rejuvenation during Chemical Induction to Pluripotent Stem Cells. Stem Cell Reports, 2018, 11, 70-87.	4.8	45

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37	No evidence for neo-oogenesis may link to ovarian senescence in adult monkey. Stem Cells, 2013, 31, 2538-2550.	3.2	43
38	Epithelialâ€“mesenchymal transition: The history, regulatory mechanism, and cancer therapeutic opportunities. MedComm, 2022, 3, .	7.2	43
39	Influences of lamin A levels on induction of pluripotent stem cells. Biology Open, 2012, 1, 1118-1127.	1.2	42
40	Isolation and culture of primary bovine embryonic stem cell colonies by a novel method. Journal of Experimental Zoology, 2009, 311A, 368-376.	1.2	41
41	Decreased Expression of the Host Long-Noncoding RNA-GM Facilitates Viral Escape by Inhibiting the Kinase activity TBK1 via S-glutathionylation. Immunity, 2020, 53, 1168-1181.e7.	14.3	41
42	Roles for Tbx3 in regulation of two-cell state and telomere elongation in mouse ES cells. Scientific Reports, 2013, 3, 3492.	3.3	39
43	Correlation of expression and methylation of imprinted genes with pluripotency of parthenogenetic embryonic stem cells. Human Molecular Genetics, 2009, 18, 2177-2187.	2.9	37
44	Genome-wide Gene Expression Profiling Reveals Aberrant MAPK and Wnt Signaling Pathways Associated with Early Parthenogenesis. Journal of Molecular Cell Biology, 2010, 2, 333-344.	3.3	37
45	Functional Oocytes Derived from Granulosa Cells. Cell Reports, 2019, 29, 4256-4267.e9.	6.4	36
46	Colorectal Cancer Stem Cell States Uncovered by Simultaneous Singleâ€Cell Analysis of Transcriptome and Telomeres. Advanced Science, 2021, 8, 2004320.	11.2	36
47	Telomere-dependent and telomere-independent roles of RAP1 in regulating human stem cell homeostasis. Protein and Cell, 2019, 10, 649-667.	11.0	35
48	Dynamic reprogramming of H3K9me3 at hominoid-specific retrotransposons during human preimplantation development. Cell Stem Cell, 2022, 29, 1031-1050.e12.	11.1	34
49	Transplantation of parthenogenetic embryonic stem cells ameliorates cardiac dysfunction and remodelling after myocardial infarction. Cardiovascular Research, 2013, 97, 208-218.	3.8	33
50	Feeders facilitate telomere maintenance and chromosomal stability of embryonic stem cells. Nature Communications, 2018, 9, 2620.	12.8	33
51	Telomere Length Reprogramming in Embryos and Stem Cells. BioMed Research International, 2014, 2014, 1-7.	1.9	31
52	A non-invasive method for measuring preimplantation embryo physiology. Zygote, 2000, 8, 15-24.	1.1	29
53	Effect of ploidy and parental genome composition on expression of Oct-4 protein in mouse embryos. Gene Expression Patterns, 2004, 4, 433-441.	0.8	29
54	Telomere Reprogramming and Maintenance in Porcine iPS Cells. PLoS ONE, 2013, 8, e74202.	2.5	26

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55	Synaptonemal complex protein 2 (SYCP2) mediates the association of the centromere with the synaptonemal complex. Protein and Cell, 2017, 8, 538-543.	11.0	26
56	Epigenetic Modifiers Facilitate Induction and Pluripotency of Porcine iPSCs. Stem Cell Reports, 2017, 8, 11-20.	4.8	26
57	Molecular Features of Polycystic Ovary Syndrome Revealed by Transcriptome Analysis of Oocytes and Cumulus Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 735684.	3.7	26
58	Alternative Lengthening of Telomeres (ALT) in Tumors and Pluripotent Stem Cells. Genes, 2019, 10, 1030.	2.4	25
59	Role of CD133 in human embryonic stem cell proliferation and teratoma formation. Stem Cell Research and Therapy, 2020, 11, 208.	5.5	25
60	Tet1 Deficiency Leads to Premature Reproductive Aging by Reducing Spermatogonia Stem Cells and Germ Cell Differentiation. IScience, 2020, 23, 100908.	4.1	25
61	Tn5 Transposase Applied in Genomics Research. International Journal of Molecular Sciences, 2020, 21, 8329.	4.1	23
62	Overexpression of Histone Deacetylase 6 Enhances Resistance to Porcine Reproductive and Respiratory Syndrome Virus in Pigs. PLoS ONE, 2017, 12, e0169317.	2.5	22
63	Pold3is required for genomic stability and telomere integrity in embryonic stem cells and meiosis. Nucleic Acids Research, 2018, 46, 3468-3486.	14.5	22
64	Efficient Induction of Pluripotent Stem Cells from Granulosa Cells by Oct4 and Sox2. Stem Cells and Development, 2014, 23, 779-789.	2.1	21
65	Roles for Histone Acetylation in Regulation of Telomere Elongation and Twoâ€cell State in Mouse ES Cells. Journal of Cellular Physiology, 2015, 230, 2337-2344.	4.1	21
66	Overexpression of Hdac6 enhances resistance to virus infection in embryonic stem cells and in mice. Protein and Cell, 2015, 6, 152-156.	11.0	20
67	Telomere heterogeneity linked to metabolism and pluripotency state revealed by simultaneous analysis of telomere length and RNA-seq in the same human embryonic stem cell. BMC Biology, 2017, 15, 114.	3.8	20
68	Hydrogen sulfide alleviates oxidative stress injury and reduces apoptosis induced by MPP+ in Parkinsonâ€™s disease cell model. Molecular and Cellular Biochemistry, 2020, 472, 231-240.	3.1	20
69	KSR-Based Medium Improves the Generation of High-Quality Mouse iPS Cells. PLoS ONE, 2014, 9, e105309.	2.5	19
70	HP-CagA+ Regulates the Expression of CDK4/CyclinD1 via reg3 to Change Cell Cycle and Promote Cell Proliferation. International Journal of Molecular Sciences, 2020, 21, 224.	4.1	19
71	Tcstv1 and Tcstv3 elongate telomeres of mouse ES cells. Scientific Reports, 2016, 6, 19852.	3.3	18
72	Telomere dysfunction impairs epidermal stem cell specification and differentiation by disrupting BMP/pSmad/P63 signaling. PLoS Genetics, 2019, 15, e1008368.	3.5	18

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73	Checkpoint for DNA integrity at the first mitosis after oocyte activation. Molecular Reproduction and Development, 2002, 62, 277-288.	2.0	16
74	Germline competency of parthenogenetic embryonic stem cells from immature oocytes of adult mouse ovary. Human Molecular Genetics, 2011, 20, 1339-1352.	2.9	15
75	Telomere Elongation Facilitated by Trichostatin A in Cloned Embryos and Pigs by Somatic Cell Nuclear Transfer. Stem Cell Reviews and Reports, 2014, 10, 399-407.	5.6	15
76	Telomere Elongation and Naive Pluripotent Stem Cells Achieved from Telomerase Haplo-Insufficient Cells by Somatic Cell Nuclear Transfer. Cell Reports, 2014, 9, 1603-1609.	6.4	14
77	Novel mutations of TCTN3/LTBP2 with cellular function changes in congenital heart disease associated with polydactyly. Journal of Cellular and Molecular Medicine, 2020, 24, 13751-13762.	3.6	14
78	Targeting the HDAC6â€Cilium Axis Ameliorates the Pathological Changes Associated with Retinopathy of Prematurity. Advanced Science, 2022, 9, .	11.2	14
79	Tet1 Deficiency Leads to Premature Ovarian Failure. Frontiers in Cell and Developmental Biology, 2021, 9, 644135.	3.7	13
80	Overexpression of Hdac6 extends reproductive lifespan in mice. Protein and Cell, 2017, 8, 360-364.	11.0	12
81	IFITM1 suppresses expression of human endogenous retroviruses in human embryonic stem cells. FEBS Open Bio, 2017, 7, 1102-1110.	2.3	12
82	DNA repair and replication links to pluripotency and differentiation capacity of pig iPS cells. PLoS ONE, 2017, 12, e0173047.	2.5	11
83	Elevated retrotransposon activity and genomic instability in primed pluripotent stem cells. Genome Biology, 2021, 22, 201.	8.8	11
84	Age-Specific Gene Expression Profiles of Rhesus Monkey Ovaries Detected by Microarray Analysis. BioMed Research International, 2015, 2015, 1-15.	1.9	10
85	Reconstitution of ovarian function following transplantation of primordial germ cells. Scientific Reports, 2017, 7, 1427.	3.3	10
86	Characterization of oogonia stem cells in mice by Fragilis. Protein and Cell, 2019, 10, 825-831.	11.0	10
87	Embryonic lethality in mice lacking Trim59 due to impaired gastrulation development. Cell Death and Disease, 2018, 9, 302.	6.3	9
88	NormExpression: An R Package to Normalize Gene Expression Data Using Evaluated Methods. Frontiers in Genetics, 2019, 10, 400.	2.3	9
89	Roles of Tet2 in meiosis, fertility and reproductive aging. Protein and Cell, 2021, 12, 578-585.	11.0	9
90	Telomere Maintenance-Associated PML Is a Potential Specific Therapeutic Target of Human Colorectal Cancer. Translational Oncology, 2019, 12, 1164-1176.	3.7	8

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91	Generation of developmentally competent oocytes and fertile mice from parthenogenetic embryonic stem cells. Protein and Cell, 2021, 12, 947-964.	11.0	8
92	Zscan4 Contributes to Telomere Maintenance in Telomerase-Deficient Late Generation Mouse ESCs and Human ALT Cancer Cells. Cells, 2022, 11, 456.	4.1	8
93	Telomere elongation in parthenogenetic stem cells. Protein and Cell, 2014, 5, 8-11.	11.0	7
94	Mtor inhibition by INK128 extends functions of the ovary reconstituted from germline stem cells in aging and premature aging mice. Aging Cell, 2021, 20, e13304.	6.7	7
95	Dynamics of TRF1 organizing a single human telomere. Nucleic Acids Research, 2021, 49, 760-775.	14.5	6
96	Generation of iPS Cells from Granulosa Cells. Methods in Molecular Biology, 2014, 1357, 451-464.	0.9	5
97	New insights of subfertility among transplanted women: Immunosuppressive drug FK506 leads to calcium leak and oocyte activation before fertilization. Journal of Cellular Biochemistry, 2018, 119, 2964-2977.	2.6	5
98	Nuclear Transfer Methods to Study Aging. Methods in Molecular Biology, 2007, 371, 191-207.	0.9	5
99	Role of Jnk1 in development of neural precursors revealed by iPSC modeling. Oncotarget, 2016, 7, 60919-60928.	1.8	5
100	Induction of meiosis by embryonic gonadal somatic cells differentiated from pluripotent stem cells. Stem Cell Research and Therapy, 2021, 12, 607.	5.5	5
101	Expression and distribution of forkhead activin signal transducer 2 (FAST2) during follicle development in mouse ovaries and pre-implantation embryos. Acta Histochemica, 2016, 118, 632-639.	1.8	4
102	Highâ€efficiency protein delivery into transfectionâ€recalcitrant cell types. Biotechnology and Bioengineering, 2020, 117, 816-831.	3.3	4
103	Quantitative proteomics analysis of parthenogenetically induced pluripotent stem cells. Protein and Cell, 2011, 2, 631-646.	11.0	3
104	Isolation and Culture of Bovine Embryonic Stem Cells. Methods in Molecular Biology, 2013, 1074, 111-123.	0.9	2
105	RNA sequencing analysis to demonstrate Erk dependent and independent functions of Mek. Genomics Data, 2016, 7, 73-75.	1.3	2
106	Hematopoietic cell kinase gene polymorphisms and the risk of chronic obstructive pulmonary disease in a Chinese population. Experimental Lung Research, 2012, 38, 37-42.	1.2	1
107	Oncostatin M Maintains NaÃ¯ve Pluripotency of mESCs by Tetraploid Embryo Complementation (TEC) Assay. Frontiers in Cell and Developmental Biology, 2021, 9, 675411.	3.7	1
108	Parthenogenetic Activation-Induced Pluripotent Stem Cells and Potential Applications. Stem Cells and Cancer Stem Cells, 2012, , 235-246.	0.1	0

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109	Frontiers in reproductive agingâ€”challenge and perspective. Science China Life Sciences, 2012, 55, 651-652.	4.9	0
110	Germ cells from pluripotent stem cells: mouse versus human. Science China Life Sciences, 2015, 58, 205-207.	4.9	0
111	Identification of Two Novel Mutations from Congenital Heart Defects and Related Cellular Function. FASEB Journal, 2019, 33, 374.6.	0.5	0