Zhen-Bo Wang

List of Publications by Year
in descending order

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69 papers	1,549 citations	331670 21 h-index	345221 36 g-index
74 all docs	74 docs citations	74 times ranked	4011 citing authors

#	Article	IF	Citations
1	Unique insights into maternal mitochondrial inheritance in mice. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13038-13043.	7.1	126
2	The root of reduced fertility in aged women and possible therapentic options: Current status and future perspects. Molecular Aspects of Medicine, 2014, 38, 54-85.	6.4	117
3	The subcortical maternal complex controls symmetric division of mouse zygotes by regulating F-actin dynamics. Nature Communications, 2014, 5, 4887.	12.8	102
4	Bub3 Is a Spindle Assembly Checkpoint Protein Regulating Chromosome Segregation during Mouse Oocyte Meiosis. PLoS ONE, 2009, 4, e7701.	2.5	97
5	N6-Methyladenosine Sequencing Highlights the Involvement of mRNA Methylation in Oocyte Meiotic Maturation and Embryo Development by Regulating Translation in Xenopus laevis. Journal of Biological Chemistry, 2016, 291, 23020-23026.	3.4	66
6	Sperm-carried RNAs play critical roles in mouse embryonic development. Oncotarget, 2017, 8, 67394-67405.	1.8	66
7	Mettl14 is required for mouse postimplantation development by facilitating epiblast maturation. FASEB Journal, 2019, 33, 1179-1187.	0.5	60
8	LKB1 acts as a critical gatekeeper of ovarian primordial follicle pool. Oncotarget, 2016, 7, 5738-5753.	1.8	44
9	Specific deletion ofCdc42does not affect meiotic spindle organization/migration and homologous chromosome segregation but disrupts polarity establishment and cytokinesis in mouse oocytes. Molecular Biology of the Cell, 2013, 24, 3832-3841.	2.1	40
10	WASH complex regulates Arp2/3 complex for actin-based polar body extrusion in mouse oocytes. Scientific Reports, 2014, 4, 5596.	3.3	39
11	Scaffold Subunit Aalpha of PP2A Is Essential for Female Meiosis and Fertility in Mice1. Biology of Reproduction, 2014, 91, 19.	2.7	38
12	Singleâ€cell RNA sequencing reveals the landscape of early female germ cell development. FASEB Journal, 2020, 34, 12634-12645.	0.5	38
13	Overexpression of SETÎ², a protein localizing to centromeres, causes precocious separation of chromatids during the first meiosis of mouse oocyte. Journal of Cell Science, 2013, 126, 1595-603.	2.0	37
14	Cep55 regulates spindle organization and cell cycle progression in meiotic oocyte. Scientific Reports, 2015, 5, 16978.	3.3	37
15	Transfer of autologous mitochondria from adipose tissue-derived stem cells rescues oocyte quality and infertility in aged mice. Aging, 2017, 9, 2480-2488.	3.1	36
16	PRC2 and EHMT1 regulate H3K27me2 and H3K27me3 establishment across the zygote genome. Nature Communications, 2020, 11, 6354.	12.8	36
17	N-acetyl-L-cysteine (NAC) delays post-ovulatory oocyte aging in mouse. Aging, 2019, 11, 2020-2030.	3.1	36
18	The SUMO pathway functions in mouse oocyte maturation. Cell Cycle, 2010, 9, 2640-2646.	2.6	35

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19	METTL3-mediated mRNA N6-methyladenosine is required for oocyte and follicle development in mice. Cell Death and Disease, 2021, 12, 989.	6.3	31
20	Why is Chromosome Segregation Error in Oocytes Increased With Maternal Aging?. Physiology, 2011, 26, 314-325.	3.1	29
21	Oocyte-specific deletion ofN-WASPdoes not affect oocyte polarity, but causes failure of meiosis II completion. Molecular Human Reproduction, 2016, 22, 613-621.	2.8	25
22	Reduction of mtDNA heteroplasmy in mitochondrial replacement therapy by inducing forced mitophagy. Nature Biomedical Engineering, 2022, 6, 339-350.	22.5	25
23	RNA-Seq transcriptome reveals different molecular responses during human and mouse oocyte maturation and fertilization. BMC Genomics, 2020, 21, 475.	2.8	22
24	New Understandings on Folliculogenesis/Oogenesis Regulation in Mouse as Revealed by Conditional Knockout. Journal of Genetics and Genomics, 2012, 39, 61-68.	3.9	21
25	Removal of mouse ovary fat pad affects sex hormones, folliculogenesis and fertility. Journal of Endocrinology, 2017, 232, 155-164.	2.6	19
26	Single-cell RNA sequencing reveals regulation of fetal ovary development in the monkey (Macaca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	6.7	19
27	Absence of mitochondrial DNA methylation in mouse oocyte maturation, aging and early embryo development. Biochemical and Biophysical Research Communications, 2019, 513, 912-918.	2.1	18
28	The small GTPase RhoA regulates the LIMK1/2â€cofilin pathway to modulate cytoskeletal dynamics in oocyte meiosis. Journal of Cellular Physiology, 2018, 233, 6088-6097.	4.1	17
29	Chronic cadmium exposure causes oocyte meiotic arrest by disrupting spindle assembly checkpoint and maturation promoting factor. Reproductive Toxicology, 2020, 96, 141-149.	2.9	17
30	Ablation of beta subunit of protein kinase CK2 in mouse oocytes causes follicle atresia and premature ovarian failure. Cell Death and Disease, 2018, 9, 508.	6.3	16
31	Oocyte-specific deletion of furin leads to female infertility by causing early secondary follicle arrest in mice. Cell Death and Disease, 2017, 8, e2846-e2846.	6.3	15
32	Protein phosphatase 6 is a key factor regulating spermatogenesis. Cell Death and Differentiation, 2020, 27, 1952-1964.	11.2	15
33	Loss of protein phosphatase 6 in oocytes causes failure of meiosis II exit and impaired female fertility. Journal of Cell Science, 2015, 128, 3769-80.	2.0	14
34	Type 2 diabetes increases oocyte mtDNA mutations which are eliminated in the offspring by bottleneck effect. Reproductive Biology and Endocrinology, 2018, 16, 110.	3.3	13
35	Degradation of Ccnb3 is essential for maintenance of MII arrest in oocyte. Biochemical and Biophysical Research Communications, 2020, 521, 265-269.	2.1	13
36	Protein Phosphatase 6 Protects Prophase I-Arrested Oocytes by Safeguarding Genomic Integrity. PLoS Genetics, 2016, 12, e1006513.	3.5	12

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37	Geminin deletion in mouse oocytes results in impaired embryo development and reduced fertility. Molecular Biology of the Cell, 2016, 27, 768-775.	2.1	11
38	Rad9a is involved in chromatin decondensation and post-zygotic embryo development in mice. Cell Death and Differentiation, 2019, 26, 969-980.	11.2	10
39	Type 1 diabetes affects zona pellucida and genome methylation in oocytes and granulosa cells. Molecular and Cellular Endocrinology, 2020, 500, 110627.	3.2	10
40	Exposure to Aroclorâ€1254 impairs spindle assembly during mouse oocyte maturation. Environmental Toxicology, 2016, 31, 1652-1662.	4.0	9
41	Glucocorticoid exposure affects female fertility by exerting its effect on the uterus but not on the oocyte: lessons from a hypercortisolism mouse model. Human Reproduction, 2018, 33, 2285-2294.	0.9	9
42	Deletion of Mylk1 in Oocytes Causes Delayed Morula-to-Blastocyst Transition and Reduced Fertility Without Affecting Folliculogenesis and Oocyte Maturation in Mice1. Biology of Reproduction, 2015, 92, 97.	2.7	8
43	CenpH regulates meiotic G2/M transition by modulating the APC/CCdh1-cyclin B1 pathway in oocytes. Development (Cambridge), 2017, 144, 305-312.	2.5	7
44	FBXO34 Regulates the G2/M Transition and Anaphase Entry in Meiotic Oocytes. Frontiers in Cell and Developmental Biology, 2021, 9, 647103.	3.7	7
45	Gm364 coordinates MIB2/DLL3/Notch2 to regulate female fertility through AKT activation. Cell Death and Differentiation, 2022, 29, 366-380.	11.2	7
46	Identification of a heterozygous variant of ZP2 as a novel cause of empty follicle syndrome in humans and mice. Human Reproduction, 2022, 37, 859-872.	0.9	7
47	NEK5 regulates cell cycle progression during mouse oocyte maturation and preimplantation embryonic development. Molecular Reproduction and Development, 2019, 86, 1189-1198.	2.0	6
48	Deletion of Ck2Î² gene causes germ cell development arrest and azoospermia in male mice. Cell Proliferation, 2020, 53, e12726.	5.3	5
49	Cell division cycle 23 is required for mouse oocyte meiotic maturation. FASEB Journal, 2020, 34, 8990-9002.	0.5	5
50	Specific deletion of protein phosphatase 6 catalytic subunit in Sertoli cells leads to disruption of spermatogenesis. Cell Death and Disease, 2021, 12, 883.	6.3	5
51	Inhibiting bridge integrator 2 phosphorylation leads to improved oocyte quality, ovarian health and fertility in aging and after chemotherapy in mice. Nature Aging, 2021, 1, 1010-1023.	11.6	5
52	Exogenous thymine DNA glycosylase regulates epigenetic modifications and meiotic cell cycle progression of mouse oocytes. Molecular Human Reproduction, 2015, 21, 186-194.	2.8	4
53	Nek11 regulates asymmetric cell division during mouse oocyte meiotic maturation. Biochemical and Biophysical Research Communications, 2016, 474, 667-672.	2.1	4
54	Meiotic chromatid recombination and segregation assessed with human single cell genome sequencing data. Journal of Medical Genetics, 2019, 56, 156-163.	3.2	4

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55	CENP-T, regulates both G2/M transition and anaphase entry by acting through CDH1 in meiotic oocytes. Journal of Cell Science, 2020, 133, .	2.0	4
56	Effects of m<scp>itochondriaâ€associated</scp> Ca²⁺ transporters suppression on oocyte activation. Cell Biochemistry and Function, 2021, 39, 248-257.	2.9	4
57	Diabetic Uterine Environment Leads to Disorders in Metabolism of Offspring. Frontiers in Cell and Developmental Biology, 2021, 9, 706879.	3.7	4
58	Deletion of BAF250a affects oocyte epigenetic modifications and embryonic development. Molecular Reproduction and Development, 2020, 87, 550-564.	2.0	3
59	Inhibition of CDK4/6 kinases causes production of aneuploid oocytes by inactivating the spindle assembly checkpoint and accelerating first meiotic progression. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 119044.	4.1	3
60	Septin 4 controls CCNB1 stabilization via APC/C^{CDC20} during meiotic G2/M transition in mouse oocytes. Journal of Cellular Physiology, 2022, 237, 730-742.	4.1	2
61	Rad9ais required for spermatogonia differentiation in mice. Oncotarget, 2016, 7, 86350-86358.	1.8	2
62	PPP4C facilitates homologous recombination DNA repair by dephosphorylating PLK1 during early embryo development. Development (Cambridge), 2022, 149, .	2.5	2
63	Geminin deletion in pre-meiotic DNA replication stage causes spermatogenesis defect and infertility. Journal of Reproduction and Development, 2017, 63, 481-488.	1.4	1
64	Single-cell RNA sequencing reveals species-specific time spans of cell cycle transitions in early oogenesis. Human Molecular Genetics, 2021, 30, 525-535.	2.9	1
65	CENP-W regulates kinetochore-microtubule attachment and meiotic progression of mouse oocytes. Biochemical and Biophysical Research Communications, 2020, 527, 8-14.	2.1	1
66	Kinetochore scaffold 1 regulates SAC function during mouse oocyte meiotic maturation. FASEB Journal, 2022, 36, e22210.	0.5	1
67	MAPRE2 regulates the first meiotic progression in mouse oocytes. Experimental Cell Research, 2022, 416, 113135.	2.6	1
68	Epitalon protects against post-ovulatory aging-related damage of mouse oocytes in vitro. Aging, 2022, 14, 3191-3202.	3.1	1
69	PTHrP promotes development of mouse preimplantation embryos through the AKT/cyclin D1 pathway and nuclear translocation of HDAC4. Journal of Cellular Physiology, 2021, 236, 7001-7013.	4.1	0