Qiang Wang

List of Publications by Year
in descending order

37 papers	2,253 citations	257101 24 h-index	315357 38 g-index
38 all docs	38 docs citations	38 times ranked	2396 citing authors

#	Article	IF	Citations
1	High Fat Diet Induced Developmental Defects in the Mouse: Oocyte Meiotic Aneuploidy and Fetal Growth Retardation/Brain Defects. PLoS ONE, 2012, 7, e49217.	1.1	286
2	Evaluation of oocyte quality: morphological, cellular and molecular predictors. Reproduction, Fertility and Development, 2007, 19, 1.	0.1	237
3	Maternal Diabetes Causes Mitochondrial Dysfunction and Meiotic Defects in Murine Oocytes. Molecular Endocrinology, 2009, 23, 1603-1612.	3.7	182
4	Metabolic control of oocyte development: linking maternal nutrition and reproductive outcomes. Cellular and Molecular Life Sciences, 2015, 72, 251-271.	2.4	138
5	Melatonin protects against maternal obesityâ€associated oxidativeÂstress and meiotic defects in oocytes via the <scp>SIRT</scp>3â€<scp>SOD</scp>2â€dependent pathway. Journal of Pineal Research, 2017, 63, e12431.	3.4	134
6	Embryonic defects induced by maternal obesity in mice derive from Stella insufficiency in oocytes. Nature Genetics, 2018, 50, 432-442.	9.4	112
7	Sirt2 functions in spindle organization and chromosome alignment in mouse oocyte meiosis. FASEB Journal, 2014, 28, 1435-1445.	0.2	96
8	Mitochondrial Dysfunction and Apoptosis in Cumulus Cells of Type I Diabetic Mice. PLoS ONE, 2010, 5, e15901.	1.1	96
9	Both diet and gene mutation induced obesity affect oocyte quality in mice. Scientific Reports, 2016, 6, 18858.	1.6	90
10	Sirt3 prevents maternal obesity-associated oxidative stress and meiotic defects in mouse oocytes. Cell Cycle, 2015, 14, 2959-2968.	1.3	80
11	Adverse effects of obesity and/or high-fat diet on oocyte quality and metabolism are not reversible with resumption of regular diet in mice. Reproduction, Fertility and Development, 2015, 27, 716.	0.1	74
12	Characterization of Metabolic Patterns in Mouse Oocytes during Meiotic Maturation. Molecular Cell, 2020, 80, 525-540.e9.	4.5	74
13	Maternal diabetes and oocyte quality. Mitochondrion, 2010, 10, 403-410.	1.6	67
14	Sirt3-dependent deacetylation of SOD2 plays a protective role against oxidative stress in oocytes from diabetic mice. Cell Cycle, 2017, 16, 1302-1308.	1.3	58
15	NMNAT2â€mediated NAD⁺ generation is essential for quality control of aged oocytes. Aging Cell, 2019, 18, e12955.	3.0	58
16	<scp>SIRT</scp>4 is essential for metabolic control and meiotic structure during mouse oocyte maturation. Aging Cell, 2018, 17, e12789.	3.0	52
17	Sirt6 depletion causes spindle defects and chromosome misalignment during meiosis of mouse oocyte. Scientific Reports, 2015, 5, 15366.	1.6	43
18	Mitofusin1 in oocyte is essential for female fertility. Redox Biology, 2019, 21, 101110.	3.9	42

#	ARTICLE	IF	CITATIONS
19	Loss of TIGAR Induces Oxidative Stress and Meiotic Defects in Oocytes from Obese Mice. Molecular and Cellular Proteomics, 2018, 17, 1354-1364.	2.5	38
20	Sirt2â€BubR1 acetylation pathway mediates the effects of advanced maternal age on oocyte quality. Aging Cell, 2018, 17, e12698.	3.0	37
21	Live Imaging Reveals the Link Between Decreased Glucose Uptake in Ovarian Cumulus Cells and Impaired Oocyte Quality in Female Diabetic Mice. Endocrinology, 2012, 153, 1984-1989.	1.4	36
22	Differing roles of pyruvate dehydrogenase kinases during mouse oocyte maturation. Journal of Cell Science, 2015, 128, 2319-2329.	1.2	31
23	Rab5a is required for spindle length control and kinetochoreâ€microtubule attachment during meiosis in oocytes. FASEB Journal, 2014, 28, 4026-4035.	0.2	30
24	SIRT6 participates in the quality control of aged oocytes via modulating telomere function. Aging, 2019, 11, 1965-1976.	1.4	27
25	Melatonin ameliorates the advanced maternal age-associated meiotic defects in oocytes through the SIRT2-dependent H4K16 deacetylation pathway. Aging, 2020, 12, 1610-1623.	1.4	26
26	NAMPT reductionâ€induced NAD⁺ insufficiency contributes to the compromised oocyte quality from obese mice. Aging Cell, 2021, 20, e13496.	3.0	20
27	Differential roles of Stella in the modulation of DNA methylation during oocyte and zygotic development. Cell Discovery, 2019, 5, 9.	3.1	19
28	Histone methyltransferase SETD2 is required for meiotic maturation in mouse oocyte. Journal of Cellular Physiology, 2019, 234, 661-668.	2.0	13
29	Involvement of SIRT3â€GSK3Î² deacetylation pathway in the effects of maternal diabetes on oocyte meiosis. Cell Proliferation, 2021, 54, e12940.	2.4	13
30	Telomere Dysfunction in Oocytes and Embryos From Obese Mice. Frontiers in Cell and Developmental Biology, 2021, 9, 617225.	1.8	11
31	Rab6a is a novel regulator of meiotic apparatus and maturational progression in mouse oocytes. Scientific Reports, 2016, 6, 22209.	1.6	8
32	Oocyte metabolites are heritable factors that drive metabolic reprogramming of the progeny. Nature Metabolism, 2021, 3, 1148-1149.	5.1	5
33	Loss of PDK1 Induces Meiotic Defects in Oocytes From Diabetic Mice. Frontiers in Cell and Developmental Biology, 2021, 9, 793389.	1.8	4
34	Metabolic control of oocyte development. Biology of Reproduction, 2022, 107, 54-61.	1.2	3
35	FKBP25 Regulates Meiotic Apparatus During Mouse Oocyte Maturation. Frontiers in Cell and Developmental Biology, 2021, 9, 625805.	1.8	2
36	HIF1<i>Î±</i> is dispensable for oocyte development and female fertility in mice. PeerJ, 2022, 10, e13370.	0.9	2

#	Article	IF	Citations
37	Increased mtDNA mutation frequency in oocytes causes epigenetic alterations and embryonic defects. National Science Review, 2022, 9, .	4.6	2