

# Zhendong Zhu

## List of Publications by Year in descending order

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25  
papers

698  
citations

430754

18  
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610775

24  
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25  
docs citations

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times ranked

711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Negative effects of ROS generated during linear sperm motility on gene expression and ATP generation in boar sperm mitochondria. <i>Free Radical Biology and Medicine</i> , 2019, 141, 159-171.	1.3	71
2	Vitamin E Analogue Improves Rabbit Sperm Quality during the Process of Cryopreservation through Its Antioxidative Action. <i>PLoS ONE</i> , 2015, 10, e0145383.	1.1	55
3	Resveratrol Improves Boar Sperm Quality via 5 <sup>α</sup> -AMP-Activated Protein Kinase Activation during Cryopreservation. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-15.	1.9	49
4	Gene Expression and Protein Synthesis in Mitochondria Enhance the Duration of High-Speed Linear Motility in Boar Sperm. <i>Frontiers in Physiology</i> , 2019, 10, 252.	1.3	45
5	Melatonin protects mouse spermatogonial stem cells against hexavalent chromium-induced apoptosis and epigenetic histone modification. <i>Toxicology and Applied Pharmacology</i> , 2018, 340, 30-38.	1.3	40
6	Melatonin protects rabbit spermatozoa from cryo-damage via decreasing oxidative stress. <i>Cryobiology</i> , 2019, 88, 1-8.	0.3	40
7	Melatonin Attenuates Chromium (VI)-Induced Spermatogonial Stem Cell/Progenitor Mitophagy by Restoration of METTL3-Mediated RNA N6-Methyladenosine Modification. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 684398.	1.8	39
8	5 <sup>α</sup> -AMP-Activated Protein Kinase Regulates Goat Sperm Functions via Energy Metabolism In Vitro. <i>Cellular Physiology and Biochemistry</i> , 2018, 47, 2420-2431.	1.1	34
9	Early cleavage of preimplantation embryos is regulated by tRNAGln-TTC <sup>6</sup> -derived small RNAs present in mature spermatozoa. <i>Journal of Biological Chemistry</i> , 2020, 295, 10885-10900.	1.6	33
10	Trehalose improves rabbit sperm quality during cryopreservation. <i>Cryobiology</i> , 2017, 75, 45-51.	0.3	32
11	Exogenous Oleic Acid and Palmitic Acid Improve Boar Sperm Motility via Enhancing Mitochondrial $\beta$ -Oxidation for ATP Generation. <i>Animals</i> , 2020, 10, 591.	1.0	29
12	Cysteine protects rabbit spermatozoa against reactive oxygen species-induced damages. <i>PLoS ONE</i> , 2017, 12, e0181110.	1.1	28
13	Glutamine protects rabbit spermatozoa against oxidative stress via glutathione synthesis during cryopreservation. <i>Reproduction, Fertility and Development</i> , 2017, 29, 2183.	0.1	27
14	Mitochondrial Protein Turnover Is Critical for Granulosa Cell Proliferation and Differentiation in Antral Follicles. <i>Journal of the Endocrine Society</i> , 2019, 3, 324-339.	0.1	26
15	A simple sperm-sexing method that activates TLR7/8 on X sperm for the efficient production of sexed mouse or cattle embryos. <i>Nature Protocols</i> , 2020, 15, 2645-2667.	5.5	24
16	Itaconate regulates the glycolysis/pentose phosphate pathway transition to maintain boar sperm linear motility by regulating redox homeostasis. <i>Free Radical Biology and Medicine</i> , 2020, 159, 44-53.	1.3	23
17	Resveratrol protects boar sperm <i>in vitro</i> via its antioxidant capacity. <i>Zygote</i> , 2020, 28, 417-424.	0.5	23
18	Glycogen Synthase Kinase-3 Regulates Sperm Motility and Acrosome Reaction via Affecting Energy Metabolism in Goats. <i>Frontiers in Physiology</i> , 2019, 10, 968.	1.3	19

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19	Proline Protects Boar Sperm against Oxidative Stress through Proline Dehydrogenase-Mediated Metabolism and the Amine Structure of Pyrrolidine. <i>Animals</i> , 2020, 10, 1549.	1.0	18
20	Polyamines protect boar sperm from oxidative stress in vitro. <i>Journal of Animal Science</i> , 2022, 100, .	0.2	17
21	An efficient strategy for generation of transgenic mice by lentiviral transduction of male germline stem cells in vivo. <i>Journal of Animal Science and Biotechnology</i> , 2015, 6, 59.	2.1	9
22	Cysteine improves boar sperm quality via glutathione biosynthesis during the liquid storage. <i>Animal Bioscience</i> , 2022, 35, 166-176.	0.8	8
23	Reducing the Glucose Level in Pre-treatment Solution Improves Post-thaw Boar Sperm Quality. <i>Frontiers in Veterinary Science</i> , 2022, 9, 856536.	0.9	6
24	Carboxylated $\beta$ -Poly-L-Lysine Supplementation of the Freezing Extender Improves the Post-Thawing Boar Sperm Quality. <i>Animals</i> , 2022, 12, 1726.	1.0	3
25	5-aminolevulinic acid improves chicken sperm motility. <i>Animal Bioscience</i> , 2021, 34, 1912-1920.	0.8	0