

The causes of reduced fertility with cryopreserved semen

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Induction of Telomere Shortening and Replicative Senescence by Cryopreservation. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 493-498.	1.0	44
2	Influence of Cooling Rates and Plunging Temperatures in an Interrupted Slow-Freezing Procedure for Semen of the African Catfish, <i>Clarias gariepinus</i> . <i>Cryobiology</i> , 2001, 43, 276-287.	0.3	19
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7	Cryopreservation of gametes and embryos of non-domestic species. <i>Theriogenology</i> , 2002, 57, 303-326.	0.9	180
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9	Influence of centrifugation or low extension rates prefreezing on the fertility of ram semen after cervical insemination. <i>Theriogenology</i> , 2002, 57, 1781-1792.	0.9	12
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20	Effects of cryopreservation on testicular sperm nuclear DNA fragmentation and its relationship with assisted conception outcome following ICSI with testicular spermatozoa. <i>Reproductive BioMedicine Online</i> , 2003, 7, 449-455.	1.1	36
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442	Growth and survival of olive barb, <i>Puntius sarana</i> (Hamilton 1822) larvae produced with cryopreserved versus fresh sperm. <i>Aquaculture Research</i> , 2016, 47, 228-233.	0.9	8
443	Sperm proteome and reproductive technologies in mammals. <i>Animal Reproduction Science</i> , 2016, 173, 1-7.	0.5	24
444	Proteomic identification of cryostress in epididymal spermatozoa. <i>Journal of Animal Science and Biotechnology</i> , 2016, 7, 67.	2.1	26
445	Freezability of buffalo semen with TRIS extender enriched with disaccharides (trehalose or sucrose) and different glycerol concentrations. <i>Asian Pacific Journal of Reproduction</i> , 2016, 5, 416-418.	0.2	1
446	Membrane Stress During Thawing Elicits Redistribution of Aquaporin 7 But Not of Aquaporin 9 in Boar Spermatozoa. <i>Reproduction in Domestic Animals</i> , 2016, 51, 665-679.	0.6	22
447	Sperm pretreatment with glutathione improves IVF embryos development through increasing the viability and antioxidative capacity of sex-sorted and unsorted bull semen. <i>Journal of Integrative Agriculture</i> , 2016, 15, 2326-2335.	1.7	9
448	Effect of selenium on human sperm parameters after freezing and thawing procedures. <i>Asian Pacific Journal of Reproduction</i> , 2016, 5, 462-466.	0.2	22
449	Effect of cyclodextrins, cholesterol and vitamin E and their complexation on cryopreserved epididymal ram semen. <i>Small Ruminant Research</i> , 2016, 141, 29-35.	0.6	14
450	A 31-kDa seminal plasma heparin-binding protein reduces cold shock stress during cryopreservation of cross-bred cattle bull semen. <i>Theriogenology</i> , 2016, 86, 1599-1606.	0.9	8
451	Relationship between seminal plasma tuberoinfundibular peptide of 39 residues and sperm functional attributes in buffalo ( <i>Bubalus bubalis</i> ). <i>Reproduction, Fertility and Development</i> , 2016, 28, 1622.	0.1	10
452	Effects of different cryoprotectants and freezing methods on post-thaw boar semen quality. <i>Reproductive Biology</i> , 2016, 16, 41-46.	0.9	12
453	The tolerance of feline corpus and cauda spermatozoa to cryostress. <i>Theriogenology</i> , 2016, 85, 502-508.	0.9	11
454	Oxidative stress at different stages of two-step semen cryopreservation procedures in dogs. <i>Theriogenology</i> , 2016, 85, 1568-1575.	0.9	44
455	Loss of heat shock protein 70 from apical region of buffalo ( <i>Bubalus bubalis</i> ) sperm head after freezing and thawing. <i>Theriogenology</i> , 2016, 85, 828-834.	0.9	15
456	Effect of cooling (4°C) and cryopreservation on cytoskeleton actin and protein tyrosine phosphorylation in buffalo spermatozoa. <i>Cryobiology</i> , 2016, 72, 7-13.	0.3	19
457	Effects of the Tris, Tes, or skim milk based extender on in vitro parameters of ram spermatozoa during liquid storage. <i>Small Ruminant Research</i> , 2016, 134, 14-21.	0.6	14
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460	Reproductive seasonality and sperm cryopreservation in the male tufted deer ( <i>Elaphodus Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i> )	0.9	12
461	Stress preconditioning of semen before cryopreservation improves fertility and increases the number of offspring born: a prospective randomised study using a porcine model. <i>Reproduction, Fertility and Development</i> , 2016, 28, 475.	0.1	12
462	Strategies to improve the fertility of fresh and frozen donkey semen. <i>Theriogenology</i> , 2016, 85, 1267-1273.	0.9	41
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464	Cooled semen for fixed-time artificial insemination in beef cattle. <i>Reproduction, Fertility and Development</i> , 2016, 28, 1004.	0.1	14
465	Effect of water temperature on the physiology of fish spermatozoon function: a brief review. <i>Aquaculture Research</i> , 2017, 48, 729-740.	0.9	61
466	Sperm function during incubation with oestrus oviductal fluid differs in bulls with different fertility. <i>Reproduction, Fertility and Development</i> , 2017, 29, 1096.	0.1	18
467	Optimization of protocols for Iberian red deer ( <i>Cervus elaphus hispanicus</i> ) sperm handling before sex sorting by flow cytometry. <i>Theriogenology</i> , 2017, 92, 129-136.	0.9	3
468	Supplementing rooster sperm with Cholesterol-Loaded-Cyclodextrin improves fertility after cryopreservation. <i>Cryobiology</i> , 2017, 74, 8-12.	0.3	33
469	The effect of cooling to different subzero temperatures on dog sperm cryosurvival. <i>Reproduction in Domestic Animals</i> , 2017, 52, 422-428.	0.6	4
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471	Sperm cryopreservation of Japanese eel, <i>Anguilla japonica</i> . <i>Aquaculture</i> , 2017, 473, 487-492.	1.7	19
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473	Novel agents for sperm purification, sorting, and imaging. <i>Molecular Reproduction and Development</i> , 2017, 84, 832-841.	1.0	34
474	Pentoxifylline increase sperm motility in devitrified spermatozoa from asthenozoospermic patient without damage chromatin and DNA integrity. <i>Cryobiology</i> , 2017, 76, 59-64.	0.3	22
475	Detection of intracellular reactive oxygen species (superoxide anion and hydrogen peroxide) and lipid peroxidation during cryopreservation of alpaca spermatozoa. <i>Reproduction in Domestic Animals</i> , 2017, 52, 819-824.	0.6	27
476	In vitro fertilizing potential of urethral and epididymal spermatozoa collected from domestic cats ( <i>Felis catus</i> ). <i>Polish Journal of Veterinary Sciences</i> , 2017, 20, 19-24.	0.2	6

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478	Effect of reduced glutathione supplementation in semen extender on tyrosine phosphorylation and apoptosis like changes in frozen thawed Hariana bull spermatozoa. <i>Animal Reproduction Science</i> , 2017, 182, 111-122.	0.5	33
479	Sperm parameters that play a major role in the assessment of semen quality after cryopreservation. <i>Journal of Assisted Reproduction and Genetics</i> , 2017, 34, 1271-1276.	1.2	8
480	Sperm membrane proteins associated with the boar semen cryopreservation. <i>Animal Reproduction Science</i> , 2017, 183, 27-38.	0.5	30
481	Effect of boar ejaculate fraction, extender type and time of storage on quality of spermatozoa. <i>Polish Journal of Veterinary Sciences</i> , 2017, 20, 77-84.	0.2	12
482	Effect of seminal plasma and butylated hydroxytoluene (BHT) concentration on ram sperm freezability. <i>Small Ruminant Research</i> , 2017, 153, 66-70.	0.6	9
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484	Sperm cryopreservation in the spermcasting Australian flat oyster <i>Ostrea angasi</i> by a programmable freezing method. <i>Cryobiology</i> , 2017, 76, 119-124.	0.3	6
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486	Dietary Polyunsaturated Fatty Acid Supplementation Improves the Quality of Stallion Cryopreserved Semen. <i>Journal of Equine Veterinary Science</i> , 2017, 54, 18-23.	0.4	10
487	In vitro characterisation of fresh and frozen sex-sorted bull spermatozoa. <i>Reproduction, Fertility and Development</i> , 2017, 29, 1415.	0.1	7
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489	Effects of cryopreservation on the epigenetic profile of cells. <i>Cryobiology</i> , 2017, 74, 1-7.	0.3	65
490	Impact of supplementation of semen extender with antioxidants on the quality of chilled or cryopreserved Arabian stallion spermatozoa. <i>Cryobiology</i> , 2017, 79, 14-20.	0.3	26
491	Stallion sperm selection prior to freezing using a modified colloid swim-up procedure without centrifugation. <i>Animal Reproduction Science</i> , 2017, 185, 83-88.	0.5	17
492	Effect of Seminal Plasma Components on the Quality of Fresh and Cryopreserved Stallion Semen. <i>Journal of Equine Veterinary Science</i> , 2017, 58, 103-111.	0.4	12
493	Osmotic tolerance of feline epididymal spermatozoa. <i>Animal Reproduction Science</i> , 2017, 185, 148-153.	0.5	10
494	Effects of supplementation of the Tris-egg yolk extender with n-3 polyunsaturated fatty acids (PUFAs) on frozen-thawed ram semen characteristics. <i>Small Ruminant Research</i> , 2017, 155, 1-5.	0.6	5

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497	Antioxidative effect of BHA in soya bean lecithin-based extender containing Glycerol or DMSO on freezing capacity of goat semen. <i>Reproduction in Domestic Animals</i> , 2017, 52, 985-991.	0.6	9
498	Evaluation of $\pm$ -linolenic acid for freezability and in vivo fertility of Nili Ravi ( <i>Bubalus bubalis</i> ) buffalo semen. <i>Theriogenology</i> , 2017, 104, 1-6.	0.9	10
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501	Evaluation of different fragment sizes and cryoprotectants for cryopreservation of feline testicular tissues. <i>Reproduction in Domestic Animals</i> , 2017, 52, 242-247.	0.6	9
502	Porcine sperm vitrification II: Spheres method. <i>Andrologia</i> , 2017, 49, e12738.	1.0	6
503	Survival of buffalo bull spermatozoa: effect on structure and function due to alpha-lipoic acid and cholesterol-loaded cyclodextrin. <i>Andrologia</i> , 2017, 49, e12652.	1.0	18
504	Evaluation of quail and turkey egg yolk for cryopreservation of Nili-Ravi buffalo bull semen. <i>Theriogenology</i> , 2017, 87, 259-265.	0.9	16
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507	Effect of sex-sorting and cryopreservation on the post-thaw sperm quality of Iberian red deer spermatozoa. <i>Theriogenology</i> , 2017, 89, 206-213.	0.9	11
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509	Positive effects of trehalose and cysteine on ram sperm parameters. <i>Veterinari Medicina</i> , 2017, 62, 245-252.	0.2	11
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516	Effect of cooling rate on sperm quality of cryopreserved Andalusian donkey spermatozoa. <i>Animal Reproduction Science</i> , 2018, 193, 201-208.	0.5	5
517	Cryopreservation and egg yolk medium alter the proteome of ram spermatozoa. <i>Journal of Proteomics</i> , 2018, 181, 73-82.	1.2	49
518	Effect of sperm pooling with seminal plasma collected in breeding or nonbreeding season on Saanen goat sperm cryosurvival. <i>Andrologia</i> , 2018, 50, e12968.	1.0	5
519	Cryopreservation effects on sperm function and fertility in two threatened crane species. <i>Cryobiology</i> , 2018, 82, 148-154.	0.3	17
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525	Cryoprotective effect of glutamine, taurine, and proline on post-thaw semen quality and DNA integrity of donkey spermatozoa. <i>Animal Reproduction Science</i> , 2018, 189, 128-135.	0.5	19
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528	Identification of oxidatively modified proteins due to cryopreservation of carp semen <sup>1</sup> . <i>Journal of Animal Science</i> , 2018, 96, 1453-1465.	0.2	16
529	Supplementation of ram semen extender to improve seminal quality and fertility rate. <i>Animal Reproduction Science</i> , 2018, 192, 6-17.	0.5	55
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533	The Effects of Egg Yolk Concentration and Particle Size on Donkey Semen Preservation. Journal of Equine Veterinary Science, 2018, 65, 19-24.	0.4	19
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536	Boar sperm quality after supplementation of diets with omega-3 polyunsaturated fatty acids extracted from microalgae. Andrologia, 2018, 50, e12825.	1.0	11
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538	Investigation of in vitro measurable sperm attributes and their influence on electroejaculated bull semen with a fixed-time artificial insemination protocol in Australian <i>Bos indicus</i> cattle. Reproduction in Domestic Animals, 2018, 53, 414-422.	0.6	1
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546	Cryopreservation of collared peccary ( <i>Pecari tajacu</i> L., 1758) epididymal sperm using extenders based on Tris and powdered coconut water (ACP <sup>®</sup> -116c). Zygote, 2018, 26, 301-307.	0.5	3
547	Flow cytometry analysis of spermatozoa: Is it time for flow spermetry?. Reproduction in Domestic Animals, 2018, 53, 37-45.	0.6	17
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550	Áleo de peixe associado ao Ácido ascÁrbico no diluidor para criopreservaÁo de sÁmen caprino. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2018, 70, 131-138.	0.1	4
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554	Nitric oxide in frozen-thawed equine sperm: Effects on motility, membrane integrity and sperm capacitation. <i>Animal Reproduction Science</i> , 2018, 195, 176-184.	0.5	17
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582	Recent advances in bovine sperm cryopreservation techniques with a focus on sperm post-thaw quality optimization. <i>Reproduction in Domestic Animals</i> , 2019, 54, 655-665.	0.6	51
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586	Addition of pomegranate juice ( <i>Punica granatum</i> ) in tris-based extender improves post-thaw quality, motion dynamics and in vivo fertility of Nili Ravi buffalo ( <i>Bubalus bubalis</i> ) bull spermatozoa. <i>Andrologia</i> , 2019, 51, e13322.	1.0	6
587	Effect of genistein on semen quality, antioxidant capacity, caspase-3 expression and DNA integrity in cryopreserved ram spermatozoa. <i>Small Ruminant Research</i> , 2019, 177, 50-55.	0.6	8
588	Comparison of the Effects of Five Semen Extenders on the Quality of Frozen-Thawed Equine Epididymal Sperm. <i>Journal of Equine Veterinary Science</i> , 2019, 79, 1-8.	0.4	9
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596	A brief history of oocyte cryopreservation: Arguments and facts. <i>Acta Obstetricia Et Gynecologica Scandinavica</i> , 2019, 98, 550-558.	1.3	61
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598	Relationship between Plasma Proteins and Boar Semen Freezability. , 2019, , .		1
599	Effect of various antioxidants and their combinations on bull semen cryopreservation. <i>Turkish Journal of Veterinary and Animal Sciences</i> , 2019, 43, 590-595.	0.2	8
600	Individual Variance Component of Fresh Semen Quality in Bali Cattle ( <i>Bos javanicus</i> ) Bull. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 372, 012025.	0.2	4
601	The recovery rate of Simental spermatozoa frozen of post thawing by using tris dilution with different egg yolks. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 391, 012008.	0.2	1
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631	Sperm transport and endometrial inflammatory response in mares after artificial insemination with cryopreserved spermatozoa. <i>Theriogenology</i> , 2020, 158, 180-187.	0.9	3
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645	The Current Trends in Using Nanoparticles, Liposomes, and Exosomes for Semen Cryopreservation. <i>Animals</i> , 2020, 10, 2281.	1.0	38
646	Moringa oleifera leaves extract enhances fresh and cryopreserved semen characters of Barki rams. <i>Theriogenology</i> , 2020, 153, 133-142.	0.9	12
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667	The synergistic effect of trehalose and low concentrations of cryoprotectants can improve post-thaw ram sperm parameters. <i>Cryobiology</i> , 2020, 95, 157-163.	0.3	25
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671	Melatonin supplementation improved cryopreserved Thai swamp buffalo semen. <i>Reproduction in Domestic Animals</i> , 2021, 56, 83-88.	0.6	10
672	Cryopreservation and its effects on motility and gene expression patterns and fertilizing potential of bovine epididymal sperm. <i>Veterinary Medicine and Science</i> , 2021, 7, 127-135.	0.6	5
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687	Evaluation of dextran for rabbit sperm cryopreservation: Effect on frozen-thawed rabbit sperm quality variables and reproductive performance. <i>Animal Reproduction Science</i> , 2021, 226, 106714.	0.5	7
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889	Age-Dependent Variations in Functional Quality and Proteomic Characteristics of Canine ( <i>Canis lupus</i> ) Tj ETQq1 1 0.784314 ggBT /Ov	1.8	3
890	Glycine Improved Cryopreserved Spermatozoa Quality in Achai Bull. <i>BioMed Research International</i> , 2022, 2022, 1-9.	0.9	2
891	Validation of double freezing protocol for Beetal buck ( <i>Capra hircus</i> ) spermatozoa. <i>Reproduction in Domestic Animals</i> , 2022, 57, 1615-1622.	0.6	6
892	Effect of melatonin in different extenders on the quality of frozen semen of goats. , 2022, 5, 100015.		2
894	Effect of Different Thawing Methods for Frozen Bull Semen and Additional Factors on the Conception Rate of Dairy Cows in Artificial Insemination. <i>Animals</i> , 2022, 12, 2330.	1.0	2
895	Influence of alpha linolenic acid on the motility, viability, antioxidant activity and fertility of frozen-thawed New Zealand white rabbit buck semen. <i>World Rabbit Science</i> , 2022, 30, 219-226.	0.1	1
897	The effects of egg yolk-based and egg yolk-free diluents on the post-thaw quality of bull spermatozoa. <i>Acta Veterinaria Brno</i> , 2022, 91, 339-346.	0.2	2
898	Cryopreservation process alters the expression of genes involved in pathways associated with the fertility of bull spermatozoa. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	1
899	Evaluation of lipidomic change in goat sperm after cryopreservation. <i>Frontiers in Veterinary Science</i> , 0, 9, .	0.9	4
900	Effects of adding mixed chicken and quail egg yolks to the cryodiluent on the quality of ram semen before and after cryopreservation. <i>Frontiers in Veterinary Science</i> , 0, 9, .	0.9	1
901	The use of progesterone-supplemented Co-synch and Ovsynch for estrus synchronization and fixed-time insemination in nulliparous Saanen goat. <i>Turkish Journal of Veterinary and Animal Sciences</i> , 0, , .	0.2	1
902	Efficacy of Carnosine administration along with or without Coenzyme Q10 on sodium valproate induced testicular toxicity in vivo models. <i>Journal of King Saud University - Science</i> , 2023, 35, 102435.	1.6	0
903	Supplementation of caffeine to extender improves post-thaw seminal attributes of Poitou donkey semen. <i>Indian Journal of Animal Sciences</i> , 2022, 91, .	0.1	0
904	Seminal quality comparison of first and second cryopreserved ejaculates of Alpine kid goats by flow cytometry. <i>Zygote</i> , 0, , 1-8.	0.5	0
905	Time and dose-dependent effect of preconditioning with sodium nitroprusside (SNP) and 3-morpholinopyridone (SIN-1) on post-thaw semen quality of Karan-Fries (KF) bulls. <i>Tropical Animal Health and Production</i> , 2022, 54, .	0.5	0
906	Action of swim-up and caffeine on equine frozen sperm. <i>Animal Reproduction</i> , 2022, 19, .	0.4	1
907	Effect of turmeric extract and dimethyl sulfoxide on buffalo semen freezability and fertility. <i>Bulgarian Journal of Veterinary Medicine</i> , 2022, 25, 578-585.	0.1	1

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908	Study on comparative analysis of differential metabolites in Guanzhong dairy goat semen before and after freezing. <i>Theriogenology</i> , 2023, 197, 232-239.	0.9	1
909	Mitochondria-targeted antioxidant "MitoQ" improves rooster's cooled sperm quality indicators and reproductive performance. <i>Theriogenology</i> , 2023, 197, 26-30.	0.9	2
910	Description and Outcomes of Current Clinical Techniques for Sperm Cryopreservation. <i>European Medical Journal Reproductive Health</i> , 0, , 79-92.	1.0	1
911	PCR investigation of the vertical transmission of <i>Mycobacterium bovis</i> in MontbÃ©liarde cattle in Gonbad, northeast of Iran. <i>Bulgarian Journal of Veterinary Medicine</i> , 2022, 25, 586-592.	0.1	1
912	Ciclodextrina cargada con colesterol en la criopreservaci3n de semen de alpaca ( <i>Vicugna pacos</i> ) Una alternativa metodol3gica. <i>Journal of the Selva Andina Animal Science</i> , 2022, 9, 39-48.	0.5	0
913	Cholesterol-loaded metil-Î²- cyclodextrin in alpaca semen cryopreservation ( <i>Vicugna pacos</i> ) The methodological alternative. <i>Journal of the Selva Andina Animal Science</i> , 2022, 9, 39-48.	0.5	0
914	Motility Assessment of Ram Spermatozoa. <i>Biology</i> , 2022, 11, 1715.	1.3	9
915	The Quality and Fertilizing Potential of Red Deer ( <i>Cervus elaphus</i> L.) Epididymal Spermatozoa Stored in a Liquid State. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14591.	1.8	1
916	Cryopreservation of Semen in Domestic Animals: A Review of Current Challenges, Applications, and Prospective Strategies. <i>Animals</i> , 2022, 12, 3271.	1.0	11
917	Does Rainbow Trout Seminal Plasma-Cysteine Combination Affect the Cryo-Survivability and Post-Thaw Incubation Resilience of Ram Semen?. <i>Biopreservation and Biobanking</i> , 2023, 21, 583-592.	0.5	0
918	Effects of age, body weight, semen collection frequency and holding duration on semen traits of broiler breeder reared under different housing systems. <i>Tropical Animal Health and Production</i> , 2023, 55, .	0.5	0
919	Melatonin improves post-thaw sperm quality after mild testicular heat stress in rams. <i>Reproduction in Domestic Animals</i> , 2023, 58, 423-430.	0.6	4
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921	Viability of <i>Toxoplasma gondii</i> in cattle semen cryopreserved with different concentrations of cryoprotectant. <i>Pesquisa Veterinaria Brasileira</i> , 0, 43, .	0.5	0
922	A comparative study of effects of different freezing methods on sperm quality, DNA integrity and membrane protein of cryopreserved boar semen*. <i>Indian Journal of Animal Sciences</i> , 2018, 88, 285-289.	0.1	0
923	Concurrence of HOST to some conventional sperm quality parameters and seminal enzymes of Jersey bulls semen. <i>Indian Journal of Animal Sciences</i> , 2019, 89, .	0.1	0
924	Bull spermatozoa selected by thermotaxis exhibit high DNA integrity, specific head morphometry, and improve ICSI outcome. <i>Journal of Animal Science and Biotechnology</i> , 2023, 14, .	2.1	0
925	Effect of Cryopreservation on Sperms Function Parameters and In vitro Fertilization Rate in Mice. <i>The Iraqi Journal of Veterinary Medicine</i> , 2013, 37, 218-225.	0.0	0

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927	Supplementation of Alpha-lipoic acid-loaded nanoliposomes in semen extender improves freezability of buffalo spermatozoa. Scientific Reports, 2022, 12, .	1.6	7
928	Effect of the addition of antifreeze protein type I on the quality of post-thawed domestic cat epididymal sperm. Zygote, 0, , 1-6.	0.5	0
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934	Optimization of Sperm Cryopreservation Formulation in <i>Portunus trituberculatus</i> . International Journal of Molecular Sciences, 2023, 24, 4358.	1.8	0
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936	The Effect of Dietary Supplementation with Organic and Inorganic Selenium on Quality of Frozen-Thawed Semen in Broiler Breeder Cockerel under Oxidative Stress with Dexamethasone. Research on Animal Production, 2020, 11, 1-10.	0.2	0
937	Association between different soy lecithin-based extenders and freezing rates in ram semen cryopreservation. Animal Reproduction Science, 2023, , 107234.	0.5	0
971	Cryopreservation of Domestic and Wild Animal Spermatozoa: Update of Knowledge. Veterinary Medicine and Science, 0, , .	0.0	0