

Joan E RodrÃ-iguez Gil

List of Publications by Year in descending order

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155
papers

5,059
citations

70961

41
h-index

128067

60
g-index

159
all docs

159
docs citations

159
times ranked

3528
citing authors

#	ARTICLE	IF	CITATIONS
1	Insulin-Dependent Diabetes Affects Testicular Function by FSH- and LH-Linked Mechanisms. <i>Journal of Andrology</i> , 2004, 25, 706-719.	2.0	283
2	Identification of sperm subpopulations with specific motility characteristics in stallion ejaculates. <i>Theriogenology</i> , 2003, 59, 1973-1990.	0.9	133
3	trans-Resveratrol, a Natural Antioxidant from Grapes, Increases Sperm Output in Healthy Rats. <i>Journal of Nutrition</i> , 2005, 135, 757-760.	1.3	126
4	Metabolic strategy of boar spermatozoa revealed by a metabolomic characterization. <i>FEBS Letters</i> , 2003, 554, 342-346.	1.3	123
5	Regression analyses and motile sperm subpopulation structure study as improving tools in boar semen quality analysis. <i>Theriogenology</i> , 2004, 61, 673-690.	0.9	112
6	Tungstate is an effective antidiabetic agent in streptozotocin-induced diabetic rats: a long-term study. <i>Diabetologia</i> , 2001, 44, 507-513.	2.9	99
7	Effects of glucose and fructose on motility patterns of dog spermatozoa from fresh ejaculates. <i>Theriogenology</i> , 2001, 56, 801-815.	0.9	98
8	Artificial insemination with frozen-thawed boar sperm. <i>Molecular Reproduction and Development</i> , 2017, 84, 802-813.	1.0	88
9	Cryotolerance of stallion spermatozoa is related to ROS production and mitochondrial membrane potential rather than to the integrity of sperm nucleus. <i>Andrology</i> , 2015, 3, 395-407.	1.9	86
10	GLUTs and Mammalian Sperm Metabolism. <i>Journal of Andrology</i> , 2011, 32, 348-355.	2.0	79
11	Freezing-thawing induces alterations in histone H1-DNA binding and the breaking of protein-DNA disulfide bonds in boar sperm. <i>Theriogenology</i> , 2011, 76, 1450-1464.	0.9	76
12	Good and bad freezability boar ejaculates differ in the integrity of nucleoprotein structure after freeze-thawing but not in ROS levels. <i>Theriogenology</i> , 2013, 79, 929-939.	0.9	75
13	Vanadate treatment restores the expression of genes for key enzymes in the glucose and ketone bodies metabolism in the liver of diabetic rats. <i>Journal of Clinical Investigation</i> , 1993, 92, 4-11.	3.9	74
14	Supplementing cryopreservation media with reduced glutathione increases fertility and prolificacy of sows inseminated with frozen-thawed boar semen. <i>Andrology</i> , 2014, 2, 88-99.	1.9	66
15	Insulin-like actions of tungstate in diabetic rats. Normalization of hepatic glucose metabolism. <i>Journal of Biological Chemistry</i> , 1994, 269, 20047-53.	1.6	66
16	Effects of freezing/thawing on motile sperm subpopulations of boar and donkey ejaculates. <i>Theriogenology</i> , 2008, 70, 936-945.	0.9	62
17	Current knowledge on boar sperm metabolism: Comparison with other mammalian species. <i>Theriogenology</i> , 2016, 85, 4-11.	0.9	62
18	Aquaporins in the male reproductive tract and sperm: Functional implications and cryobiology. <i>Reproduction in Domestic Animals</i> , 2017, 52, 12-27.	0.6	62

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19	The HSP90AA1 sperm content and the prediction of the boar ejaculate freezability. <i>Theriogenology</i> , 2010, 74, 940-950.	0.9	61
20	Evidence for a functional glycogen metabolism in mature mammalian spermatozoa. , 2000, 56, 207-219.		60
21	The Increase in Phosphorylation Levels of Serine Residues of Protein HSP70 during Holding Time at 17°C Is Concomitant with a Higher Cryotolerance of Boar Spermatozoa. <i>PLoS ONE</i> , 2014, 9, e90887.	1.1	60
22	Multivariate Cluster Analysis Regression Procedures as Tools to Identify Motile Sperm Subpopulations in Rabbit Semen and to Predict Semen Fertility and Litter Size. <i>Reproduction in Domestic Animals</i> , 2007, 42, 312-319.	0.6	57
23	Dynamics of motile-sperm subpopulation structure in boar ejaculates subjected to "in vitro" capacitation and further "in vitro" acrosome reaction. <i>Theriogenology</i> , 2008, 69, 501-512.	0.9	57
24	Utilization of citrate and lactate through a lactate dehydrogenase and ATP-regulated pathway in boar spermatozoa. <i>Molecular Reproduction and Development</i> , 2006, 73, 369-378.	1.0	56
25	AMP-activated kinase, AMPK, is involved in the maintenance of plasma membrane organization in boar spermatozoa. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2143-2151.	1.4	56
26	Reduced glutathione and procaine hydrochloride protect the nucleoprotein structure of boar spermatozoa during freeze-thawing by stabilising disulfide bonds. <i>Reproduction, Fertility and Development</i> , 2013, 25, 1036.	0.1	56
27	Intracellular calcium movements of boar spermatozoa during "in vitro" capacitation and subsequent acrosome exocytosis follow a multiple-storage place, extracellular calcium-dependent model. <i>Andrology</i> , 2015, 3, 729-747.	1.9	56
28	The Presence and Function of Dopamine Type 2 Receptors in Boar Sperm: A Possible Role for Dopamine in Viability, Capacitation, and Modulation of Sperm Motility1. <i>Biology of Reproduction</i> , 2009, 80, 753-761.	1.2	55
29	The degree of resistance to freezing-thawing is related to specific changes in the structures of motile sperm subpopulations and mitochondrial activity in boar spermatozoa. <i>Theriogenology</i> , 2009, 72, 784-797.	0.9	55
30	Effects of hypoosmotic incubation on acrosome and tail structure on canine spermatozoa. <i>Theriogenology</i> , 1994, 42, 815-829.	0.9	54
31	Effects of cryopreservation on semen quality and the expression of sperm membrane hexose transporters in the spermatozoa of Iberian pigs. <i>Reproduction</i> , 2007, 134, 111-121.	1.1	53
32	A RNA-Seq Analysis to Describe the Boar Sperm Transcriptome and Its Seasonal Changes. <i>Frontiers in Genetics</i> , 2019, 10, 299.	1.1	53
33	"In Vitro" Capacitation and Acrosome Reaction are Concomitant with Specific Changes in Mitochondrial Activity in Boar Sperm: Evidence for a Nucleated Mitochondrial Activation and for the Existence of a Capacitation-Sensitive Subpopulational Structure. <i>Reproduction in Domestic Animals</i> , 2011, 46, 664-673.	0.6	51
34	The improving effect of reduced glutathione on boar sperm cryotolerance is related with the intrinsic ejaculate freezability. <i>Cryobiology</i> , 2014, 68, 251-261.	0.3	51
35	Molybdate and tungstate act like vanadate on glucose metabolism in isolated hepatocytes. <i>Biochemical Journal</i> , 1992, 282, 659-663.	1.7	49
36	Glucose metabolism in transgenic mice containing a chimeric Panolpyruvate carboxykinase/bovine growth hormone gene. <i>FASEB Journal</i> , 1993, 7, 791-800.	0.2	48

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37	Effect of sex sorting on CTC staining, actin cytoskeleton and tyrosine phosphorylation in bull and boar spermatozoa. <i>Theriogenology</i> , 2012, 77, 1206-1216.	0.9	47
38	Oligomycin A-induced inhibition of mitochondrial ATP-synthase activity suppresses boar sperm motility and in vitro capacitation achievement without modifying overall sperm energy levels. <i>Reproduction, Fertility and Development</i> , 2014, 26, 883.	0.1	47
39	Combining reduced glutathione and ascorbic acid has supplementary beneficial effects on boar sperm cryotolerance. <i>Theriogenology</i> , 2015, 83, 399-407.	0.9	47
40	Gluconeogenesis-Linked Glycogen Metabolism Is Important in the Achievement of In Vitro Capacitation of Dog Spermatozoa in a Medium Without Glucose ¹ . <i>Biology of Reproduction</i> , 2004, 71, 1437-1445.	1.2	46
41	Effect of 655-nm diode laser on dog sperm motility. <i>Lasers in Medical Science</i> , 2005, 20, 28-34.	1.0	45
42	Effect of different thawing rates on post-thaw sperm viability, kinematic parameters and motile sperm subpopulations structure of bull semen. <i>Animal Reproduction Science</i> , 2008, 109, 50-64.	0.5	45
43	A technical assessment of the porcine ejaculated spermatozoa for a sperm-specific RNA-seq analysis. <i>Systems Biology in Reproductive Medicine</i> , 2018, 64, 291-303.	1.0	45
44	Advances in sperm cryopreservation in farm animals: Cattle, horse, pig and sheep. <i>Animal Reproduction Science</i> , 2022, 246, 106904.	0.5	45
45	Freeze-thawing induces alterations in the protamine-1/DNA overall structure in boar sperm. <i>Theriogenology</i> , 2008, 69, 1083-1094.	0.9	44
46	Mammalian Sperm Energy Resources Management and Survival during Conservation in Refrigeration. <i>Reproduction in Domestic Animals</i> , 2006, 41, 11-20.	0.6	43
47	Use of hypometabolic TRIS extenders and high cooling rate refrigeration for cryopreservation of stallion sperm: Presence and sensitivity of 5 th AMP-activated protein kinase (AMPK). <i>Cryobiology</i> , 2014, 69, 473-481.	0.3	42
48	Melatonin receptors MT1 and MT2 are expressed in spermatozoa from several seasonal and nonseasonal breeder species. <i>Theriogenology</i> , 2016, 86, 1958-1968.	0.9	41
49	Tungstate Treatment Improves Leydig Cell Function in Streptozotocin-Diabetic Rats. <i>Journal of Andrology</i> , 2005, 26, 706-715.	2.0	40
50	Relationship of aquaporins 3 (<scp>AQP</scp>3), 7 (<scp>AQP</scp>7), and 11 (<scp>AQP</scp>11) with boar sperm resilience to withstand freeze-thawing procedures. <i>Andrology</i> , 2017, 5, 1153-1164.	1.9	40
51	Anti-insulin effects of amylin and calcitonin-gene-related peptide on hepatic glycogen metabolism. <i>Biochemical Journal</i> , 1991, 276, 607-610.	1.7	38
52	The effect of low-level laser irradiation on dog spermatozoa motility is dependent on laser output power. <i>Lasers in Medical Science</i> , 2009, 24, 703-713.	1.0	38
53	Specific LED-based red light photo-stimulation procedures improve overall sperm function and reproductive performance of boar ejaculates. <i>Scientific Reports</i> , 2016, 6, 22569.	1.6	38
54	Novel identification of peripheral dopaminergic D2 receptor in male germ cells. <i>Journal of Cellular Biochemistry</i> , 2007, 100, 141-150.	1.2	37

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55	Cryopreservation-induced alterations in boar spermatozoa mitochondrial function are related to changes in the expression and location of midpiece mitofusin-2 and actin network. <i>Theriogenology</i> , 2010, 74, 354-363.	0.9	37
56	Tungstate administration improves the sexual and reproductive function in female rats with streptozotocin-induced diabetes. <i>Human Reproduction</i> , 2007, 22, 2128-2135.	0.4	36
57	Effects of Cryopreservation on Bull Spermatozoa Distribution in Morphometrically Distinct Subpopulations. <i>Reproduction in Domestic Animals</i> , 2007, 42, 354-357.	0.6	35
58	Vanadate raises fructose 2,6-bisphosphate concentrations and activates glycolysis in rat hepatocytes. <i>Biochemical Journal</i> , 1988, 255, 507-12.	1.7	35
59	Lithium's Effects on Rat Liver Glucose Metabolism in Vivo. <i>Archives of Biochemistry and Biophysics</i> , 2000, 375, 377-384.	1.4	34
60	Hexose-specificity of hexokinase and ADP-dependence of pyruvate kinase play important roles in the control of monosaccharide utilization in freshly diluted boar spermatozoa. <i>Molecular Reproduction and Development</i> , 2006, 73, 1179-1194.	1.0	34
61	Evaluation of sperm motility with CASA-Mot: which factors may influence our measurements?. <i>Reproduction, Fertility and Development</i> , 2018, 30, 789.	0.1	34
62	Effects of slight agitation on the quality of refrigerated boar sperm. <i>Animal Reproduction Science</i> , 1995, 39, 141-146.	0.5	33
63	Lithium Restores Glycogen Synthesis from Glucose in Hepatocytes from Diabetic Rats. <i>Archives of Biochemistry and Biophysics</i> , 1993, 301, 411-415.	1.4	32
64	Aquaporins 7 and 11 in boar spermatozoa: detection, localisation and relationship with sperm quality. <i>Reproduction, Fertility and Development</i> , 2016, 28, 663.	0.1	31
65	Viable and morphologically normal boar spermatozoa alter the expression of heat shock protein genes in oviductal epithelial cells during co-culture in vitro. <i>Molecular Reproduction and Development</i> , 2014, 81, 805-819.	1.0	30
66	Prostaglandins E2 and F2 affect glycogen synthase and phosphorylase in isolated hepatocytes. <i>Biochemical Journal</i> , 1989, 261, 93-97.	1.7	29
67	Variations in the Proportion of Glycolytic/Non-glycolytic Energy Substrates Modulate Sperm Membrane Integrity and Function in Diluted Boar Samples Stored at 15-17°C. <i>Reproduction in Domestic Animals</i> , 2005, 40, 448-453.	0.6	29
68	Hexose transporters GLUT1 and GLUT3 are colocalized with hexokinase I in caveolae microdomains of rat spermatogenic cells. <i>Journal of Cellular Physiology</i> , 2006, 207, 397-406.	2.0	29
69	The presence of a high-Km hexokinase activity in dog, but not in boar, sperm. <i>FEBS Letters</i> , 2004, 570, 211-216.	1.3	28
70	Subjecting horse spermatozoa to hypoosmotic incubation: Effects of ouabain. <i>Theriogenology</i> , 1997, 47, 765-784.	0.9	27
71	Effect of seminal plasma proteins on the motile sperm subpopulations in ram ejaculates. <i>Reproduction, Fertility and Development</i> , 2017, 29, 394.	0.1	27
72	The addition of reduced glutathione to cryopreservation media induces changes in the structure of motile subpopulations of frozen-thawed boar sperm. <i>Cryobiology</i> , 2017, 78, 56-64.	0.3	27

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73	Identification of circular RNAs in porcine sperm and evaluation of their relation to sperm motility. <i>Scientific Reports</i> , 2020, 10, 7985.	1.6	27
74	Natural Mediterranean photoperiod does not affect the main parameters of boar-semen quality analysis. <i>Theriogenology</i> , 2005, 64, 934-946.	0.9	26
75	Activation by Vanadate of Glycolysis in Hepatocytes From Diabetic Rats. <i>Diabetes</i> , 1991, 40, 1355-1359.	0.3	25
76	A systems biology framework integrating GWAS and RNA-seq to shed light on the molecular basis of sperm quality in swine. <i>Genetics Selection Evolution</i> , 2020, 52, 72.	1.2	25
77	Effects of ouabain on the response to osmotic changes in dog and boar spermatozoa. <i>Theriogenology</i> , 1996, 45, 873-888.	0.9	24
78	Artificial Insemination in Boar Reproduction. , 2013, , 589-607.		24
79	First evidence for the presence of aquaporins in stallion sperm. <i>Reproduction in Domestic Animals</i> , 2017, 52, 61-64.	0.6	24
80	In vitro assessment of egg yolk-, soya bean lecithin- and liposome-based extenders for cryopreservation of dairy bull semen. <i>Animal Reproduction Science</i> , 2020, 215, 106315.	0.5	24
81	Presence and Function of Dopamine Transporter (DAT) in Stallion Sperm: Dopamine Modulates Sperm Motility and Acrosomal Integrity. <i>PLoS ONE</i> , 2014, 9, e112834.	1.1	24
82	Aquaglyceroporins 3 and 7 in bull spermatozoa: identification, localisation and their relationship with sperm cryotolerance. <i>Reproduction, Fertility and Development</i> , 2017, 29, 1249.	0.1	23
83	Glucose- and fructose-induced dog-sperm glycogen synthesis shows specific changes in the location of the sperm glycogen deposition. <i>Molecular Reproduction and Development</i> , 2003, 64, 349-359.	1.0	22
84	Impact of light irradiation on preservation and function of mammalian spermatozoa. <i>Animal Reproduction Science</i> , 2018, 194, 19-32.	0.5	21
85	Aquaporin 11 is related to cryotolerance and fertilising ability of frozen-thawed bull spermatozoa. <i>Reproduction, Fertility and Development</i> , 2018, 30, 1099.	0.1	21
86	The achievement of boar sperm <i>in vitro</i> capacitation is related to an increase of disrupted disulphide bonds and intracellular reactive oxygen species levels. <i>Andrology</i> , 2018, 6, 781-797.	1.9	21
87	Adenovirus-mediated introduction of DNA into pig sperm and offspring. <i>Molecular Reproduction and Development</i> , 1999, 53, 149-158.	1.0	20
88	Resistance to hyperosmotic stress in boar spermatozoa: the role of the ionic pumps and the relationship with cryosurvival. <i>Animal Reproduction Science</i> , 1997, 48, 301-315.	0.5	19
89	Effects of reduced glutathione on acrosin activity in frozen-thawed boar spermatozoa. <i>Reproduction, Fertility and Development</i> , 2017, 29, 283.	0.1	19
90	A pilot RNA-seq study in 40 pietrain ejaculates to characterize the porcine sperm microbiome. <i>Theriogenology</i> , 2020, 157, 525-533.	0.9	19

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91	Lithium inhibits hepatic gluconeogenesis and phosphoenolpyruvate carboxykinase gene expression. <i>Journal of Biological Chemistry</i> , 1992, 267, 2888-93.	1.6	19
92	In vitro Capacitation and Acrosome Reaction of Dog Spermatozoa can be Feasibly Attained in a Defined Medium Without Glucose. <i>Reproduction in Domestic Animals</i> , 2004, 39, 129-135.	0.6	18
93	Aquaporins in boar spermatozoa. Part II: detection and localisation of aquaglyceroporin 3. <i>Reproduction, Fertility and Development</i> , 2017, 29, 703.	0.1	18
94	Effect of column filtration upon the quality parameters of fresh dog semen. <i>Theriogenology</i> , 1998, 50, 1171-1189.	0.9	17
95	Control of Glycogen Synthase and Phosphorylase in Hepatocytes From Diabetic Rats: Effects of Glucagon, Vasopressin, and Vanadate. <i>Diabetes</i> , 1989, 38, 793-798.	0.3	16
96	Ion-mediated resistance to osmotic changes of ram spermatozoa: The role of amiloride and ouabain. <i>Theriogenology</i> , 2000, 54, 1453-1467.	0.9	16
97	Effects of exposing boars to different artificial light regimens on semen plasma markers and <i>in vivo</i> fertilizing capacity. <i>Theriogenology</i> , 2006, 65, 317-331.	0.9	15
98	Expression of the GM-CSF receptor in ovine spermatozoa: GM-CSF effect on sperm viability and motility of sperm subpopulations after the freezing-thawing process. <i>Theriogenology</i> , 2007, 67, 1359-1370.	0.9	15
99	Effects of Filtration of Semen Doses from Subfertile Boars through Neuter Sephadex Columns. <i>Reproduction in Domestic Animals</i> , 2008, 43, 48-52.	0.6	15
100	Modulation of the biochemical composition of amniotic and allantoic fluids as a control mechanism of feline foetal development. <i>Placenta</i> , 2012, 33, 522-527.	0.7	15
101	Neuronal signaling repertoire in the mammalian sperm functionality. <i>Biology of Reproduction</i> , 2017, 96, 505-524.	1.2	15
102	Characterisation of sperm piRNAs and their correlation with semen quality traits in swine. <i>Animal Genetics</i> , 2021, 52, 114-120.	0.6	15
103	Tyrosine Phosphorylation of Vitreous Inflammatory and Angiogenic Peptides and Proteins in Diabetic Retinopathy. , 2009, 50, 1378.		14
104	Glucose and fructose as functional modulators of overall dog, but not boar sperm function. <i>Reproduction, Fertility and Development</i> , 2011, 23, 468.	0.1	14
105	<i>In vitro</i> capacitation and subsequent acrosome reaction are related to changes in the expression and location of midpiece actin and mitofusin-2 in boar spermatozoa. <i>Theriogenology</i> , 2012, 77, 979-988.	0.9	14
106	Melatonin affects the motility and adhesiveness of <i>in vitro</i> capacitated boar spermatozoa via a mechanism that does not depend on intracellular ROS levels. <i>Andrology</i> , 2018, 6, 720-736.	1.9	14
107	Roles of Na ⁺ /K ⁺ -dependent ATPase, Na ⁺ /H ⁺ antiporter and GLUT hexose transporters in the cryosurvival of dog spermatozoa: Effects on viability, acrosome state and motile sperm subpopulation structure. <i>Theriogenology</i> , 2011, 75, 1669-1681.	0.9	13
108	Red LED Light Acts on the Mitochondrial Electron Chain of Donkey Sperm and Its Effects Depend on the Time of Exposure to Light. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 588621.	1.8	13

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109	Effects of Matrix Filtration of Low-Quality Boar Semen Doses on Sperm Quality. <i>Reproduction in Domestic Animals</i> , 2009, 44, 499-503.	0.6	12
110	Red LED Light Acts on the Mitochondrial Electron Chain of Mammalian Sperm via Light-Time Exposure-Dependent Mechanisms. <i>Cells</i> , 2020, 9, 2546.	1.8	12
111	Effects of vanadate on protein kinases in rat hepatocytes. <i>Biochemical Journal</i> , 1989, 262, 563-567.	1.7	11
112	Effects of Constant, 9 and 16-h Light Cycles on Sperm Quality, Semen Storage Ability and Motile Sperm Subpopulations Structure of Boar Semen. <i>Reproduction in Domestic Animals</i> , 2006, 41, 386-393.	0.6	11
113	Effects of filtration through Sephadex columns improve overall quality parameters and <i>in vivo</i> fertility of subfertile refrigerated boar-semen. <i>Animal Reproduction Science</i> , 2009, 115, 189-200.	0.5	11
114	Chlorogenic acid improves the quality of boar semen subjected to cooled storage at 15°C. <i>Andrologia</i> , 2018, 50, e12978.	1.0	11
115	Placental and uterine expression of GLUT3, but not GLUT1, is related with serum progesterone levels during the first stages of pregnancy in queens. <i>Theriogenology</i> , 2018, 121, 82-90.	0.9	11
116	Red-light stimulation of boar semen prior to artificial insemination improves field fertility in farms: A worldwide survey. <i>Reproduction in Domestic Animals</i> , 2019, 54, 1145-1148.	0.6	11
117	Red-Light Irradiation of Horse Spermatozoa Increases Mitochondrial Activity and Motility through Changes in the Motile Sperm Subpopulation Structure. <i>Biology</i> , 2020, 9, 254.	1.3	11
118	Effects of red-light irradiation on the function and survival of fresh and liquid-stored donkey semen. <i>Theriogenology</i> , 2020, 149, 88-97.	0.9	11
119	Diabetic Retinopathy Is Associated with Decreased Tyrosine Nitrosylation of Vitreous Interleukins IL-1 β , IL-1 γ , and IL-7. <i>Ophthalmic Research</i> , 2011, 46, 169-174.	1.0	10
120	Effect of different light sources on reproductive anatomy and physiology of Japanese quail (<i>Coturnix</i>) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	0.5	10
121	Photostimulation and thermotaxis of sperm: Overview and practical implications in porcine reproduction. <i>Theriogenology</i> , 2019, 137, 8-14.	0.9	10
122	Activation by vanadate of glycolysis in hepatocytes from diabetic rats. <i>Diabetes</i> , 1991, 40, 1355-1359.	0.3	10
123	<i>In Vitro</i> Capacitation and Further <i>In Vitro</i> Progesterone-Induced Acrosome Exocytosis are Linked to Specific Changes in the Expression and Acrosome Location of Protein Phosphorylation in Serine Residues of Boar Spermatozoa. <i>Reproduction in Domestic Animals</i> , 2012, 47, 766-776.	0.6	9
124	Voltage-dependent anion channel 2 is involved in <i>in vitro</i> capacitation of boar sperm. <i>Reproduction in Domestic Animals</i> , 2017, 52, 65-68.	0.6	8
125	Supplementing Maturation Medium With Insulin Growth Factor I and Vitrification-Warming Solutions With Reduced Glutathione Enhances Survival Rates and Development Ability of <i>in vitro</i> Matured Vitrified-Warmed Pig Oocytes. <i>Frontiers in Physiology</i> , 2018, 9, 1894.	1.3	8
126	Irradiating frozen-thawed stallion sperm with red-light increases their resilience to withstand post-thaw incubation at 38°C. <i>Theriogenology</i> , 2020, 157, 85-95.	0.9	8

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127	Glucose and Fructose Have Sugar-Specific Effects in Both Liver and Skeletal Muscle In Vivo: A Role for Liver Fructokinase. <i>PLoS ONE</i> , 2014, 9, e109726.	1.1	8
128	Uterine and placental specific localization of AQP2 and AQP8 is related with changes of serum progesterone levels in pregnant queens. <i>Theriogenology</i> , 2020, 142, 149-157.	0.9	7
129	Lithium ions increase hepatic glycogen synthase stability through a proteasome-related mechanism. <i>Archives of Biochemistry and Biophysics</i> , 2007, 457, 29-34.	1.4	6
130	Pro-inflammatory cytokines: Useful markers for the diagnosis of canine mammary tumours?. <i>Veterinary Journal</i> , 2016, 210, 92-94.	0.6	6
131	Addition of insulin-like growth factor I (IGF-I) and reduced glutathione (GSH) to cryopreserved boar semen. <i>Animal Reproduction Science</i> , 2019, 208, 106130.	0.5	6
132	Whole genome sequencing identifies allelic ratio distortion in sperm involving genes related to spermatogenesis in a swine model. <i>DNA Research</i> , 2020, 27, .	1.5	6
133	Semen quality and freezability analysis during breeding and non-breeding seasons in heavy draft stallions in southern Chile. <i>Andrologia</i> , 2020, 52, e13797.	1.0	6
134	Exogenous Albumin Is Crucial for Pig Sperm to Elicit In Vitro Capacitation Whereas Bicarbonate Only Modulates Its Efficiency. <i>Biology</i> , 2021, 10, 1105.	1.3	6
135	Prostaglandins E2 and F2± increase fructose 2,6-bisphosphate levels in isolated hepatocytes. <i>Biochemical Journal</i> , 1991, 274, 309-312.	1.7	5
136	Partial Foetal Retention Following Aglepristone Treatment in a Bitch. <i>Reproduction in Domestic Animals</i> , 2011, 46, 738-741.	0.6	5
137	The Wnt1 ligand/Frizzled 3 receptor system plays a regulatory role in the achievement of the "in vitro"™ capacitation and subsequent "in vitro"™ acrosome exocytosis of porcine spermatozoa. <i>Andrology</i> , 2015, 3, 357-367.	1.9	4
138	"In vitro"™ capacitation and further progesterone-induced acrosome exocytosis are linked to specific changes in the expression and location of threonine phosphorylation of boar spermatozoa. <i>Reproduction in Domestic Animals</i> , 2019, 54, 1085-1094.	0.6	4
139	The Effects of Red Light on Mammalian Sperm Rely upon the Color of the Straw and the Medium Used. <i>Animals</i> , 2021, 11, 122.	1.0	4
140	Characterization of the Impact of Density Gradient Centrifugation on the Profile of the Pig Sperm Transcriptome by RNA-Seq. <i>Frontiers in Veterinary Science</i> , 2021, 8, 668158.	0.9	4
141	Control of glycogen synthase and phosphorylase in hepatocytes from diabetic rats. Effects of glucagon, vasopressin, and vanadate. <i>Diabetes</i> , 1989, 38, 793-798.	0.3	4
142	Semen quality and reproductive performance of boars kept in pens containing conventional coffee husk as a floor covering. <i>Revista Brasileira De Zootecnia</i> , 2016, 45, 365-371.	0.3	3
143	Biological Aspects of the Mature Boar Spermatozoon. , 2013, , 49-64.		3
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145	Medium-term effects of the diluted pig semen irradiation with red LED light on the integrity of nucleoprotein structure and resilience to withstand thermal stress. <i>Theriogenology</i> , 2020, 157, 388-398.	0.9	2
146	Expression of a green fluorescence protein-carrier protein into mouse spermatozoa. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 841-846.	1.0	1
147	Addition of chlorogenic acid and caffeine during the processing of cooled boar semen. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2019, 71, 489-499.	0.1	1
148	The onset of age-related benign prostatic hyperplasia is concomitant with increased serum and prostatic expression of VEGF in rats: Potential role of VEGF as a marker for early prostatic alterations. <i>Theriogenology</i> , 2022, 183, 69-78.	0.9	1
149	Rat age-related benign prostate hyperplasia is concomitant with an increase in the secretion of low ramified β -glycosidic polysaccharides. <i>Theriogenology</i> , 2022, 189, 150-157.	0.9	1
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151	ROLE OF THE NA ⁺ /K ⁺ -DEPENDENT ATP-ASE IN THE RESISTANCE OF BOAR SPERMATOZOA TO OSMOTIC CHANGES. <i>Reproduction in Domestic Animals</i> , 1995, 31, 267-268.	0.6	0
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154	Tyrosine phosphorylation is not a relevant mechanism to modulate aquaporin 2 activity in gestational queen endometrium and placenta. <i>Reproduction in Domestic Animals</i> , 2020, 55, 448-453.	0.6	0
155	75 GLUCOSE CONCENTRATION OF FREEZING EXTENDER MODULATES THE TYROSINE PHOSPHORYLATION PATTERN OF FROZEN-THAWED BOAR SPERMATOZOA. <i>Reproduction, Fertility and Development</i> , 2009, 21, 138.	0.1	0