

Joan E RodrÃ-guez Gil

List of Publications by Year in descending order

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155
papers

5,059
citations

71102

41
h-index

128289

60
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159
all docs

159
docs citations

159
times ranked

3528
citing authors

#	ARTICLE	IF	CITATIONS
1	Insulinâ€Dependent Diabetes Affects Testicular Function by FSHâ€and LHâ€Linked Mechanisms. Journal of Andrology, 2004, 25, 706-719.	2.0	283
2	Identification of sperm subpopulations with specific motility characteristics in stallion ejaculates. Theriogenology, 2003, 59, 1973-1990.	2.1	133
3	trans-Resveratrol, a Natural Antioxidant from Grapes, Increases Sperm Output in Healthy Rats. Journal of Nutrition, 2005, 135, 757-760.	2.9	126
4	Metabolic strategy of boar spermatozoa revealed by a metabolomic characterization. FEBS Letters, 2003, 554, 342-346.	2.8	123
5	Regression analyses and motile sperm subpopulation structure study as improving tools in boar semen quality analysis. Theriogenology, 2004, 61, 673-690.	2.1	112
6	Tungstate is an effective antidiabetic agent in streptozotocin-induced diabetic rats: a long-term study. Diabetologia, 2001, 44, 507-513.	6.3	99
7	Effects of glucose and fructose on motility patterns of dog spermatozoa from fresh ejaculates. Theriogenology, 2001, 56, 801-815.	2.1	98
8	Artificial insemination with frozenâ€thawed boar sperm. Molecular Reproduction and Development, 2017, 84, 802-813.	2.0	88
9	Cryotolerance of stallion spermatozoa is related to <scp>ROS</scp> production and mitochondrial membrane potential rather than to the integrity of sperm nucleus. Andrology, 2015, 3, 395-407.	3.5	86
10	GLUTs and Mammalian Sperm Metabolism. Journal of Andrology, 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. Theriogenology, 2011, 76, 1450-1464.	2.1	76
12	Good and bad freezability boar ejaculates differ in the integrity of nucleoprotein structure after freeze-thawing but not in ROS levels. Theriogenology, 2013, 79, 929-939.	2.1	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.. Journal of Clinical Investigation, 1993, 92, 4-11.	8.2	74
14	Supplementing cryopreservation media with reduced glutathione increases fertility and prolificacy of sows inseminated with frozenâ€thawed boar semen. Andrology, 2014, 2, 88-99.	3.5	66
15	Insulin-like actions of tungstate in diabetic rats. Normalization of hepatic glucose metabolism. Journal of Biological Chemistry, 1994, 269, 20047-53.	3.4	66
16	Effects of freezing/thawing on motile sperm subpopulations of boar and donkey ejaculates. Theriogenology, 2008, 70, 936-945.	2.1	62
17	Current knowledge on boar sperm metabolism: Comparison with other mammalian species. Theriogenology, 2016, 85, 4-11.	2.1	62
18	Aquaporins in the male reproductive tract and sperm: Functional implications and cryobiology. Reproduction in Domestic Animals, 2017, 52, 12-27.	1.4	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.	2.1	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.	2.5	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.	1.4	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.	2.1	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.	2.0	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.	2.6	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.	0.4	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.	3.5	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.	2.7	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.	2.1	55
30	Effects of hypoosmotic incubation on acrosome and tail structure on canine spermatozoa. <i>Theriogenology</i> , 1994, 42, 815-829.	2.1	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.	2.6	53
32	A RNA-Seq Analysis to Describe the Boar Sperm Transcriptome and Its Seasonal Changes. <i>Frontiers in Genetics</i> , 2019, 10, 299.	2.3	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.	1.4	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.	0.7	51
35	Molybdate and tungstate act like vanadate on glucose metabolism in isolated hepatocytes. <i>Biochemical Journal</i> , 1992, 282, 659-663.	3.7	49
36	Glucose metabolism in transgenic mice containing a chimeric P-enolpyruvate carboxykinase/bovine growth hormone gene. <i>FASEB Journal</i> , 1993, 7, 791-800.	0.5	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.	2.1	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.	0.4	47
39	Combining reduced glutathione and ascorbic acid has supplementary beneficial effects on boar sperm cryotolerance. <i>Theriogenology</i> , 2015, 83, 399-407.	2.1	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.	2.7	46
41	Effect of 655-nm diode laser on dog sperm motility. <i>Lasers in Medical Science</i> , 2005, 20, 28-34.	2.1	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.	1.5	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.	2.1	45
44	Advances in sperm cryopreservation in farm animals: Cattle, horse, pig and sheep. <i>Animal Reproduction Science</i> , 2022, 246, 106904.	1.5	45
45	Freeze-thawing induces alterations in the protamine-1/DNA overall structure in boar sperm. <i>Theriogenology</i> , 2008, 69, 1083-1094.	2.1	44
46	Mammalian Sperm Energy Resources Management and Survival during Conservation in Refrigeration. <i>Reproduction in Domestic Animals</i> , 2006, 41, 11-20.	1.4	43
47	Use of hypometabolic TRIS extenders and high cooling rate refrigeration for cryopreservation of stallion sperm: Presence and sensitivity of 5â€² AMP-activated protein kinase (AMPK). <i>Cryobiology</i> , 2014, 69, 473-481.	0.7	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.	2.1	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 freezeâ€”thawing procedures. <i>Andrology</i> , 2017, 5, 1153-1164.	3.5	40
51	Anti-insulin effects of amylin and calcitonin-gene-related peptide on hepatic glycogen metabolism. <i>Biochemical Journal</i> , 1991, 276, 607-610.	3.7	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.	2.1	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.	3.3	38
54	Novel identification of peripheral dopaminergic D2 receptor in male germ cells. <i>Journal of Cellular Biochemistry</i> , 2007, 100, 141-150.	2.6	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.	2.1	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.	0.9	36
57	Effects of Cryopreservation on Bull Spermatozoa Distribution in Morphometrically Distinct Subpopulations. <i>Reproduction in Domestic Animals</i> , 2007, 42, 354-357.	1.4	35
58	Vanadate raises fructose 2,6-bisphosphate concentrations and activates glycolysis in rat hepatocytes. <i>Biochemical Journal</i> , 1988, 255, 507-12.	3.7	35
59	Lithium's Effects on Rat Liver Glucose Metabolism in Vivo. <i>Archives of Biochemistry and Biophysics</i> , 2000, 375, 377-384.	3.0	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.	2.0	34
61	Evaluation of sperm motility with CASA-Mot: which factors may influence our measurements?. <i>Reproduction, Fertility and Development</i> , 2018, 30, 789.	0.4	34
62	Effects of slight agitation on the quality of refrigerated boar sperm. <i>Animal Reproduction Science</i> , 1995, 39, 141-146.	1.5	33
63	Lithium Restores Glycogen Synthesis from Glucose in Hepatocytes from Diabetic Rats. <i>Archives of Biochemistry and Biophysics</i> , 1993, 301, 411-415.	3.0	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.	0.4	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.	2.0	30
66	Prostaglandins E2 and F2�� affect glycogen synthase and phosphorylase in isolated hepatocytes. <i>Biochemical Journal</i> , 1989, 261, 93-97.	3.7	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.	1.4	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.	4.1	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.	2.8	28
70	Subjecting horse spermatozoa to hypoosmotic incubation: Effects of ouabain. <i>Theriogenology</i> , 1997, 47, 765-784.	2.1	27
71	Effect of seminal plasma proteins on the motile sperm subpopulations in ram ejaculates. <i>Reproduction, Fertility and Development</i> , 2017, 29, 394.	0.4	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.	0.7	27

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73	Identification of circular RNAs in porcine sperm and evaluation of their relation to sperm motility. Scientific Reports, 2020, 10, 7985.	3.3	27
74	Natural Mediterranean photoperiod does not affect the main parameters of boar-semen quality analysis. Theriogenology, 2005, 64, 934-946.	2.1	26
75	Activation by Vanadate of Glycolysis in Hepatocytes From Diabetic Rats. Diabetes, 1991, 40, 1355-1359.	0.6	25
76	A systems biology framework integrating GWAS and RNA-seq to shed light on the molecular basis of sperm quality in swine. Genetics Selection Evolution, 2020, 52, 72.	3.0	25
77	Effects of ouabain on the response to osmotic changes in dog and boar spermatozoa. Theriogenology, 1996, 45, 873-888.	2.1	24
78	Artificial Insemination in Boar Reproduction. , 2013, , 589-607.		24
79	First evidence for the presence of aquaporins in stallion sperm. Reproduction in Domestic Animals, 2017, 52, 61-64.	1.4	24
80	In vitro assessment of egg yolk-, soya bean lecithin- and liposome-based extenders for cryopreservation of dairy bull semen. Animal Reproduction Science, 2020, 215, 106315.	1.5	24
81	Presence and Function of Dopamine Transporter (DAT) in Stallion Sperm: Dopamine Modulates Sperm Motility and Acrosomal Integrity. PLoS ONE, 2014, 9, e112834.	2.5	24
82	Aquaglyceroporins 3 and 7 in bull spermatozoa: identification, localisation and their relationship with sperm cryotolerance. Reproduction, Fertility and Development, 2017, 29, 1249.	0.4	23
83	Glucose- and fructose-induced dog-sperm glycogen synthesis shows specific changes in the location of the sperm glycogen deposition. Molecular Reproduction and Development, 2003, 64, 349-359.	2.0	22
84	Impact of light irradiation on preservation and function of mammalian spermatozoa. Animal Reproduction Science, 2018, 194, 19-32.	1.5	21
85	Aquaporin 11 is related to cryotolerance and fertilising ability of frozen��thawed bull spermatozoa. Reproduction, Fertility and Development, 2018, 30, 1099.	0.4	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. Andrology, 2018, 6, 781-797.	3.5	21
87	Adenovirus-mediated introduction of DNA into pig sperm and offspring. Molecular Reproduction and Development, 1999, 53, 149-158.	2.0	20
88	Resistance to hyperosmotic stress in boar spermatozoa: the role of the ionic pumps and the relationship with cryosurvival. Animal Reproduction Science, 1997, 48, 301-315.	1.5	19
89	Effects of reduced glutathione on acrosin activity in frozen��thawed boar spermatozoa. Reproduction, Fertility and Development, 2017, 29, 283.	0.4	19
90	A pilot RNA-seq study in 40 pietrain ejaculates to characterize the porcine sperm microbiome. Theriogenology, 2020, 157, 525-533.	2.1	19

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91	Lithium inhibits hepatic gluconeogenesis and phosphoenolpyruvate carboxykinase gene expression. Journal of Biological Chemistry, 1992, 267, 2888-93.	3.4	19
92	In vitro Capacitation and Acrosome Reaction of Dog Spermatozoa can be Feasibly Attained in a Defined Medium Without Glucose. Reproduction in Domestic Animals, 2004, 39, 129-135.	1.4	18
93	Aquaporins in boar spermatozoa. Part II: detection and localisation of aquaglyceroporin 3. Reproduction, Fertility and Development, 2017, 29, 703.	0.4	18
94	Effect of column filtration upon the quality parameters of fresh dog semen. Theriogenology, 1998, 50, 1171-1189.	2.1	17
95	Control of Glycogen Synthase and Phosphorylase in Hepatocytes From Diabetic Rats: Effects of Glucagon, Vasopressin, and Vanadate. Diabetes, 1989, 38, 793-798.	0.6	16
96	Ion-mediated resistance to osmotic changes of ram spermatozoa: The role of amiloride and ouabain. Theriogenology, 2000, 54, 1453-1467.	2.1	16
97	Effects of exposing boars to different artificial light regimens on semen plasma markers and <i>in vivo</i> fertilizing capacity. Theriogenology, 2006, 65, 317-331.	2.1	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. Theriogenology, 2007, 67, 1359-1370.	2.1	15
99	Effects of Filtration of Semen Doses from Subfertile Boars through Neuter Sephadex Columns. Reproduction in Domestic Animals, 2008, 43, 48-52.	1.4	15
100	Modulation of the biochemical composition of amniotic and allantoic fluids as a control mechanism of feline foetal development. Placenta, 2012, 33, 522-527.	1.5	15
101	Neuronal signaling repertoire in the mammalian sperm functionality. Biology of Reproduction, 2017, 96, 505-524.	2.7	15
102	Characterisation of sperm piRNAs and their correlation with semen quality traits in swine. Animal Genetics, 2021, 52, 114-120.	1.7	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. Reproduction, Fertility and Development, 2011, 23, 468.	0.4	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. Theriogenology, 2012, 77, 979-988.	2.1	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. Andrology, 2018, 6, 720-736.	3.5	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. Theriogenology, 2011, 75, 1669-1681.	2.1	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. Frontiers in Cell and Developmental Biology, 2020, 8, 588621.	3.7	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.	1.4	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.	4.1	12
111	Effects of vanadate on protein kinases in rat hepatocytes. <i>Biochemical Journal</i> , 1989, 262, 563-567.	3.7	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.	1.4	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.	1.5	11
114	Chlorogenic acid improves the quality of boar semen subjected to cooled storage at 15°C. <i>Andrologia</i> , 2018, 50, e12978.	2.1	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.	2.1	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.	1.4	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.	2.8	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.	2.1	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.	1.9	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 T	1.8	10
121	Photostimulation and thermotaxis of sperm: Overview and practical implications in porcine reproduction. <i>Theriogenology</i> , 2019, 137, 8-14.	2.1	10
122	Activation by vanadate of glycolysis in hepatocytes from diabetic rats. <i>Diabetes</i> , 1991, 40, 1355-1359.	0.6	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.	1.4	9
124	Voltage-dependent anion channel 2 is involved in in vitro capacitation of boar sperm. <i>Reproduction in Domestic Animals</i> , 2017, 52, 65-68.	1.4	8
125	Supplementing Maturation Medium With Insulin Growth Factor I and Vitrification-Warming Solutions With Reduced Glutathione Enhances Survival Rates and Development Ability of in vitro Matured Vitrified-Warmed Pig Oocytes. <i>Frontiers in Physiology</i> , 2018, 9, 1894.	2.8	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.	2.1	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. PLoS ONE, 2014, 9, e109726.	2.5	8
128	Uterine and placental specific localization of AQP2 and AQP8 is related with changes of serum progesterone levels in pregnant queens. Theriogenology, 2020, 142, 149-157.	2.1	7
129	Lithium ions increase hepatic glycogen synthase stability through a proteasome-related mechanism. Archives of Biochemistry and Biophysics, 2007, 457, 29-34.	3.0	6
130	Pro-inflammatory cytokines: Useful markers for the diagnosis of canine mammary tumours?. Veterinary Journal, 2016, 210, 92-94.	1.7	6
131	Addition of insulin-like growth factor I (IGF-I) and reduced glutathione (GSH) to cryopreserved boar semen. Animal Reproduction Science, 2019, 208, 106130.	1.5	6
132	Whole genome sequencing identifies allelic ratio distortion in sperm involving genes related to spermatogenesis in a swine model. DNA Research, 2020, 27, .	3.4	6
133	Semen quality and freezability analysis during breeding and non�breeding seasons in heavy draft stallions in southern Chile. Andrologia, 2020, 52, e13797.	2.1	6
134	Exogenous Albumin Is Crucial for Pig Sperm to Elicit In Vitro Capacitation Whereas Bicarbonate Only Modulates Its Efficiency. Biology, 2021, 10, 1105.	2.8	6
135	Prostaglandins E2 and F2� increase fructose 2,6-bisphosphate levels in isolated hepatocytes. Biochemical Journal, 1991, 274, 309-312.	3.7	5
136	Partial Foetal Retention Following Aglepristone Treatment in a Bitch. Reproduction in Domestic Animals, 2011, 46, 738-741.	1.4	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. Andrology, 2015, 3, 357-367.	3.5	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. Reproduction in Domestic Animals, 2019, 54, 1085-1094.	1.4	4
139	The Effects of Red Light on Mammalian Sperm Rely upon the Color of the Straw and the Medium Used. Animals, 2021, 11, 122.	2.3	4
140	Characterization of the Impact of Density Gradient Centrifugation on the Profile of the Pig Sperm Transcriptome by RNA-Seq. Frontiers in Veterinary Science, 2021, 8, 668158.	2.2	4
141	Control of glycogen synthase and phosphorylase in hepatocytes from diabetic rats. Effects of glucagon, vasopressin, and vanadate. Diabetes, 1989, 38, 793-798.	0.6	4
142	Semen quality and reproductive performance of boars kept in pens containing conventional coffee husk as a floor covering. Revista Brasileira De Zootecnia, 2016, 45, 365-371.	0.8	3
143	Biological Aspects of the Mature Boar Spermatozoon. , 2013, , 49-64.		3
144	Effects of coffee husk as floor covering on the behavior of boars. Revista Brasileira De Zootecnia, 2017, 46, 883-889.	0.8	2

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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. Theriogenology, 2020, 157, 388-398.	2.1	2
146	Expression of a green fluorescence protein-carrier protein into mouse spermatozoa. Biochemical and Biophysical Research Communications, 2002, 297, 841-846.	2.1	1
147	Addition of chlorogenic acid and caffeine during the processing of cooled boar semen. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2019, 71, 489-499.	0.4	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. Theriogenology, 2022, 183, 69-78.	2.1	1
149	Rat age-related benign prostate hyperplasia is concomitant with an increase in the secretion of low ramified ��-glycosydic polysaccharides. Theriogenology, 2022, 189, 150-157.	2.1	1
150	L-LACTATE PRODUCTION: A FEASIBLE PARAMETER FOR THE FRESH BOAR SEMEN QUALITY ANALYSIS. Reproduction in Domestic Animals, 1995, 31, 253-254.	1.4	0
151	ROLE OF THE NA+/K+-DEPENDENT ATP-ASE IN THE RESISTANCE OF BOAR SPERMATOZOA TO OSMOTIC CHANGES. Reproduction in Domestic Animals, 1995, 31, 267-268.	1.4	0
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