

# Jordi Roca

## List of Publications by Citations

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178  
papers

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184  
ext. papers

5,848  
ext. citations

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L-index

#	Paper	IF	Citations
178	Interspecies Chimerism with Mammalian Pluripotent Stem Cells. <i>Cell</i> , <b>2017</b> , 168, 473-486.e15	56.2	289
177	Boar spermatozoa in the oviduct. <i>Theriogenology</i> , <b>2005</b> , 63, 514-35	2.8	168
176	Modulation of the oviductal environment by gametes. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 4656-66	5.6	123
175	Effects of centrifugation before freezing on boar sperm cryosurvival. <i>Journal of Andrology</i> , <b>2004</b> , 25, 389-96		107
174	Factors influencing boar sperm cryosurvival. <i>Journal of Animal Science</i> , <b>2006</b> , 84, 2692-9	0.7	103
173	Survival and fertility of boar spermatozoa after freeze-thawing in extender supplemented with butylated hydroxytoluene. <i>Journal of Andrology</i> , <b>2004</b> , 25, 397-405		101
172	Fertility of weaned sows after deep intrauterine insemination with a reduced number of frozen-thawed spermatozoa. <i>Theriogenology</i> , <b>2003</b> , 60, 77-87	2.8	93
171	Influence of porcine spermadhesins on the susceptibility of boar spermatozoa to high dilution. <i>Biology of Reproduction</i> , <b>2003</b> , 69, 640-6	3.9	93
170	The battle of the sexes starts in the oviduct: modulation of oviductal transcriptome by X and Y-bearing spermatozoa. <i>BMC Genomics</i> , <b>2014</b> , 15, 293	4.5	88
169	Selection of immature pig oocytes for homologous in vitro penetration assays with the brilliant cresyl blue test. <i>Reproduction, Fertility and Development</i> , <b>1998</b> , 10, 479-85	1.8	82
168	Cryosurvival and in vitro fertilizing capacity postthaw is improved when boar spermatozoa are frozen in the presence of seminal plasma from good freezer boars. <i>Journal of Andrology</i> , <b>2007</b> , 28, 689-97		79
167	Kinematic changes during the cryopreservation of boar spermatozoa. <i>Journal of Andrology</i> , <b>2005</b> , 26, 610-8		78
166	Hypoosmotic swelling of boar spermatozoa compared to other methods for analysing the sperm membrane. <i>Theriogenology</i> , <b>1997</b> , 47, 913-22	2.8	76
165	Effects of holding time during cooling and of type of package on plasma membrane integrity, motility and in vitro oocyte penetration ability of frozen-thawed boar spermatozoa. <i>Theriogenology</i> , <b>2001</b> , 55, 1593-605	2.8	71
164	Survival and in vitro fertility of boar spermatozoa frozen in the presence of superoxide dismutase and/or catalase. <i>Journal of Andrology</i> , <b>2005</b> , 26, 15-24		71
163	Adjustments on the cryopreservation conditions reduce the incidence of boar ejaculates with poor sperm freezability. <i>Theriogenology</i> , <b>2007</b> , 67, 1436-45	2.8	65
162	Viability and fertility of rabbit spermatozoa diluted in Tris-buffer extenders and stored at 15 degrees C. <i>Animal Reproduction Science</i> , <b>2000</b> , 64, 103-12	2.1	65

161	Birth of piglets after deep intrauterine insemination with flow cytometrically sorted boar spermatozoa. <i>Theriogenology</i> , <b>2003</b> , 59, 1605-14	2.8	64
160	Early developing pig embryos mediate their own environment in the maternal tract. <i>PLoS ONE</i> , <b>2012</b> , 7, e33625	3.7	62
159	Characterization of the porcine seminal plasma proteome comparing ejaculate portions. <i>Journal of Proteomics</i> , <b>2016</b> , 142, 15-23	3.9	60
158	Vitrification of porcine embryos at various developmental stages using different ultra-rapid cooling procedures. <i>Theriogenology</i> , <b>2004</b> , 62, 353-61	2.8	59
157	Differences in SCSA outcome among boars with different sperm freezability. <i>Journal of Developmental and Physical Disabilities</i> , <b>2006</b> , 29, 583-91		58
156	Exposure to the seminal plasma of different portions of the boar ejaculate modulates the survival of spermatozoa cryopreserved in MiniFlatPacks. <i>Theriogenology</i> , <b>2009</b> , 71, 662-75	2.8	57
155	Successful nonsurgical deep uterine embryo transfer in pigs. <i>Theriogenology</i> , <b>2004</b> , 61, 137-46	2.8	56
154	In vitro development following one-step dilution of OPS-vitrified porcine blastocysts. <i>Theriogenology</i> , <b>2004</b> , 62, 1144-52	2.8	55
153	Challenges in pig artificial insemination. <i>Reproduction in Domestic Animals</i> , <b>2006</b> , 41 Suppl 2, 43-53	1.6	54
152	Comparative effects of autologous and homologous seminal plasma on the viability of largely extended boar spermatozoa. <i>Reproduction in Domestic Animals</i> , <b>2004</b> , 39, 370-5	1.6	54
151	Piglets born after non-surgical deep intrauterine transfer of vitrified blastocysts in gilts. <i>Animal Reproduction Science</i> , <b>2005</b> , 85, 275-86	2.1	52
150	PSP-I/PSP-II spermadhesin exert a decapacitation effect on highly extended boar spermatozoa. <i>Journal of Developmental and Physical Disabilities</i> , <b>2009</b> , 32, 505-13		48
149	Improving the efficiency of sperm technologies in pigs: the value of deep intrauterine insemination. <i>Theriogenology</i> , <b>2005</b> , 63, 536-47	2.8	48
148	Evaluation of boar spermatozoa penetrating capacity using pig oocytes at the germinal vesicle stage. <i>Theriogenology</i> , <b>1993</b> , 40, 547-57	2.8	47
147	Spermadhesin PSP-I/PSP-II heterodimer induces migration of polymorphonuclear neutrophils into the uterine cavity of the sow. <i>Journal of Reproductive Immunology</i> , <b>2010</b> , 84, 57-65	4.2	43
146	Major proteins of boar seminal plasma as a tool for biotechnological preservation of spermatozoa. <i>Theriogenology</i> , <b>2008</b> , 70, 1352-5	2.8	43
145	High total antioxidant capacity of the porcine seminal plasma (SP-TAC) relates to sperm survival and fertility. <i>Scientific Reports</i> , <b>2015</b> , 5, 18538	4.9	41
144	Sex-sorting sperm by flow cytometry in pigs: issues and perspectives. <i>Theriogenology</i> , <b>2009</b> , 71, 80-8	2.8	41

143	Relationship between antral follicle size, oocyte diameters and nuclear maturation of immature oocytes in pigs. <i>Theriogenology</i> , <b>2002</b> , 58, 871-85	2.8	41
142	Boar sperm cryosurvival is better after exposure to seminal plasma from selected fractions than to those from entire ejaculate. <i>Cryobiology</i> , <b>2014</b> , 69, 203-10	2.7	40
141	Approaches towards efficient use of boar semen in the pig industry. <i>Reproduction in Domestic Animals</i> , <b>2011</b> , 46 Suppl 2, 79-83	1.6	40
140	Retained functional integrity of bull spermatozoa after double freezing and thawing using PureSperm density gradient centrifugation. <i>Reproduction in Domestic Animals</i> , <b>2007</b> , 42, 489-94	1.6	40
139	Immunolocalization and possible functional role of PSP-I/PSP-II heterodimer in highly extended boar spermatozoa. <i>Journal of Andrology</i> , <b>2006</b> , 27, 766-73		40
138	Effect of the volume of medium and number of oocytes during in vitro fertilization on embryo development in pigs. <i>Theriogenology</i> , <b>2003</b> , 60, 767-76	2.8	40
137	Characteristics and seasonal variations in the semen of Murciano-Granadina goats in the Mediterranean area. <i>Animal Reproduction Science</i> , <b>1992</b> , 29, 255-262	2.1	40
136	Improvement of boar sperm cryosurvival by using single-layer colloid centrifugation prior freezing. <i>Theriogenology</i> , <b>2012</b> , 78, 1117-25	2.8	39
135	Dissimilarities in sowsTovarian status at the insemination time could explain differences in fertility between farms when frozen-thawed semen is used. <i>Theriogenology</i> , <b>2006</b> , 65, 669-80	2.8	39
134	Seminal plasma antioxidants are directly involved in boar sperm cryotolerance. <i>Theriogenology</i> , <b>2018</b> , 107, 27-35	2.8	38
133	Suitability and effectiveness of single layer centrifugation using Androcoll-P in the cryopreservation protocol for boar spermatozoa. <i>Animal Reproduction Science</i> , <b>2013</b> , 140, 173-9	2.1	38
132	Does multivariate analysis of post-thaw sperm characteristics accurately estimate in vitro fertility of boar individual ejaculates?. <i>Theriogenology</i> , <b>2005</b> , 64, 305-16	2.8	38
131	New In-Depth Analytical Approach of the Porcine Seminal Plasma Proteome Reveals Potential Fertility Biomarkers. <i>Journal of Proteome Research</i> , <b>2018</b> , 17, 1065-1076	5.6	37
130	Dissecting the protective effect of the seminal plasma spermadhesin PSP-I/PSP-II on boar sperm functionality. <i>Journal of Andrology</i> , <b>2006</b> , 27, 434-43		37
129	Effect of short periods of sperm-oocyte coincubation during in vitro fertilization on embryo development in pigs. <i>Theriogenology</i> , <b>2004</b> , 62, 544-52	2.8	37
128	Factors affecting the success rate of porcine embryo vitrification by the Open Pulled Straw method. <i>Animal Reproduction Science</i> , <b>2008</b> , 108, 334-44	2.1	36
127	Nonsurgical deep uterine transfer of vitrified, in vivo-derived, porcine embryos is as effective as the default surgical approach. <i>Scientific Reports</i> , <b>2015</b> , 5, 10587	4.9	34
126	Heat-shock protein A8 restores sperm membrane integrity by increasing plasma membrane fluidity. <i>Reproduction</i> , <b>2014</b> , 147, 719-32	3.8	34

125	Improving the fertilizing ability of sex sorted boar spermatozoa. <i>Theriogenology</i> , <b>2007</b> , 68, 771-8	2.8	34
124	Detrimental effects of non-functional spermatozoa on the freezability of functional spermatozoa from boar ejaculate. <i>PLoS ONE</i> , <b>2012</b> , 7, e36550	3.7	33
123	Differences in the ability of spermatozoa from individual boar ejaculates to withstand different semen-processing techniques. <i>Animal Reproduction Science</i> , <b>2012</b> , 132, 66-73	2.1	32
122	Treating boar sperm with cholesterol-loaded cyclodextrins widens the sperm osmotic tolerance limits and enhances the in vitro sperm fertilising ability. <i>Animal Reproduction Science</i> , <b>2011</b> , 129, 209-20	2.1	32
121	Boar semen variability and its effects on IVF efficiency. <i>Theriogenology</i> , <b>2008</b> , 70, 1260-8	2.8	32
120	Effect of the cryoprotectant concentration on the in vitro embryo development and cell proliferation of OPS-vitrified porcine blastocysts. <i>Cryobiology</i> , <b>2008</b> , 56, 189-94	2.7	32
119	Extracellular vesicles isolated from porcine seminal plasma exhibit different tetraspanin expression profiles. <i>Scientific Reports</i> , <b>2019</b> , 9, 11584	4.9	31
118	Successful non-surgical deep uterine transfer of porcine morulae after 24 hour culture in a chemically defined medium. <i>PLoS ONE</i> , <b>2014</b> , 9, e104696	3.7	31
117	An update on reproductive technologies with potential short-term application in pig production. <i>Reproduction in Domestic Animals</i> , <b>2005</b> , 40, 300-9	1.6	31
116	Recent advances toward the practical application of embryo transfer in pigs. <i>Theriogenology</i> , <b>2016</b> , 85, 152-61	2.8	30
115	New developments in low-dose insemination technology. <i>Theriogenology</i> , <b>2008</b> , 70, 1216-24	2.8	30
114	In vitro fertilization of pig oocytes after different coincubation intervals. <i>Theriogenology</i> , <b>1993</b> , 39, 1201-88	2.8	30
113	Sperm concentration influences fertilization and male pronuclear formation in vitro in pigs. <i>Theriogenology</i> , <b>1993</b> , 40, 539-46	2.8	30
112	Dead spermatozoa in raw semen samples impair in vitro fertilization outcomes of frozen-thawed spermatozoa. <i>Fertility and Sterility</i> , <b>2013</b> , 100, 875-81	4.8	29
111	Motility characteristics and fertilizing capacity of boar spermatozoa stained with Hoechst 33342. <i>Reproduction in Domestic Animals</i> , <b>2002</b> , 37, 369-74	1.6	29
110	In vitro penetration assay of boar sperm fertility: effect of various factors on the penetrability of immature pig oocytes. <i>Theriogenology</i> , <b>1996</b> , 46, 503-13	2.8	29
109	The activity of paraoxonase type 1 (PON-1) in boar seminal plasma and its relationship with sperm quality, functionality, and in vivo fertility. <i>Andrology</i> , <b>2015</b> , 3, 315-20	4.2	28
108	Incidence of unilateral fertilizations after low dose deep intrauterine insemination in spontaneously ovulating sows under field conditions. <i>Reproduction in Domestic Animals</i> , <b>2006</b> , 41, 41-7	1.6	28

107	Oocyte penetration by fresh or stored diluted boar spermatozoa before and after in vitro capacitation treatments. <i>Biology of Reproduction</i> , <b>1996</b> , 55, 134-40	3.9	28
106	Evaluation of l-glutamine for cryopreservation of boar spermatozoa. <i>Animal Reproduction Science</i> , <b>2009</b> , 115, 149-57	2.1	27
105	The effectiveness of the stereomicroscopic evaluation of embryo quality in vitrified-warmed porcine blastocysts: an ultrastructural and cell death study. <i>Theriogenology</i> , <b>2007</b> , 67, 970-82	2.8	27
104	Adjustments in IVF system for individual boars: value of additives and time of sperm-oocyte co-incubation. <i>Theriogenology</i> , <b>2005</b> , 64, 1783-96	2.8	27
103	Does seminal plasma PSP-I/PSP-II spermadhesin modulate the ability of boar spermatozoa to penetrate homologous oocytes in vitro?. <i>Journal of Andrology</i> , <b>2004</b> , 25, 1004-12		27
102	Superfine open pulled straws vitrification of porcine blastocysts does not require pretreatment with cytochalasin B and/or centrifugation. <i>Reproduction, Fertility and Development</i> , <b>2010</b> , 22, 808-17	1.8	26
101	The Proteome of Pig Spermatozoa Is Remodeled During Ejaculation. <i>Molecular and Cellular Proteomics</i> , <b>2019</b> , 18, 41-50	7.6	26
100	The Seminal Plasma of the Boar is Rich in Cytokines, with Significant Individual and Intra-Ejaculate Variation. <i>American Journal of Reproductive Immunology</i> , <b>2015</b> , 74, 523-32	3.8	25
99	Brief coincubation of gametes in porcine in vitro fertilization: role of sperm:oocyte ratio and post-coincubation medium. <i>Theriogenology</i> , <b>2007</b> , 67, 620-6	2.8	25
98	Influence of storage time on functional capacity of flow cytometrically sex-sorted boar spermatozoa. <i>Theriogenology</i> , <b>2005</b> , 64, 86-98	2.8	25
97	Influence of sperm:oocyte ratio during in vitro fertilization of in vitro matured cumulus-intact pig oocytes on fertilization parameters and embryo development. <i>Theriogenology</i> , <b>2004</b> , 61, 551-60	2.8	25
96	Glutathione Peroxidase 5 Is Expressed by the Entire Pig Male Genital Tract and Once in the Seminal Plasma Contributes to Sperm Survival and In Vivo Fertility. <i>PLoS ONE</i> , <b>2016</b> , 11, e0162958	3.7	25
95	Boar semen can tolerate rapid cooling rates prior to freezing. <i>Reproduction, Fertility and Development</i> , <b>2011</b> , 23, 681-90	1.8	24
94	Vitrification and warming of in vivo-derived porcine embryos in a chemically defined medium. <i>Theriogenology</i> , <b>2010</b> , 73, 300-8	2.8	24
93	Distinct effects of boar seminal plasma fractions exhibiting different protein profiles on the functionality of highly diluted boar spermatozoa. <i>Reproduction in Domestic Animals</i> , <b>2009</b> , 44, 200-5	1.6	24
92	In vitro maturation of porcine oocytes with retinoids improves embryonic development. <i>Reproduction, Fertility and Development</i> , <b>2008</b> , 20, 483-9	1.8	24
91	Acrosome reaction of boar spermatozoa in homologous in vitro fertilization. <i>Molecular Reproduction and Development</i> , <b>1993</b> , 36, 84-8	2.6	24
90	Season of ejaculate collection influences the freezability of boar spermatozoa. <i>Cryobiology</i> , <b>2013</b> , 67, 299-304	2.7	23

89	Influence of seminal plasma PSP-I/PSP-II spermadhesin on pig gamete interaction. <i>Zygote</i> , <b>2005</b> , 13, 11-61.6		23
88	The nuclear DNA longevity in cryopreserved boar spermatozoa assessed using the Sperm-Sus-Halomax. <i>Theriogenology</i> , <b>2013</b> , 79, 1294-300	2.8	22
87	Effective vitrification and warming of porcine embryos using a pH-stable, chemically defined medium. <i>Scientific Reports</i> , <b>2016</b> , 6, 33915	4.9	20
86	In vitro postwarming viability of vitrified porcine embryos: effect of cryostorage length. <i>Theriogenology</i> , <b>2010</b> , 74, 486-90	2.8	20
85	Cryo-scanning electron microscopy (Cryo-SEM) of semen frozen in medium-straws from good and sub-standard freezer AI-boars. <i>Cryobiology</i> , <b>2007</b> , 54, 63-70	2.7	20
84	Cryopreservation Differentially Alters the Proteome of Epididymal and Ejaculated Pig Spermatozoa. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	18
83	The effects of superovulation of donor sows on ovarian response and embryo development after nonsurgical deep-uterine embryo transfer. <i>Theriogenology</i> , <b>2014</b> , 81, 832-9	2.8	18
82	Relevance of ovarian follicular development to the seasonal impairment of fertility in weaned sows. <i>Veterinary Journal</i> , <b>2014</b> , 199, 382-6	2.5	18
81	Non-surgical deep intrauterine transfer of superfine open pulled straw (SOPS)-vitrified porcine embryos: evaluation of critical steps of the procedure. <i>Theriogenology</i> , <b>2012</b> , 78, 1339-49	2.8	18
80	Viability and fertility of unwashed Murciano-Granadina goat spermatozoa diluted in Tris-egg yolk extender and stored at 5 °C. <i>Small Ruminant Research</i> , <b>1997</b> , 25, 147-153	1.7	18
79	Flow cytometry identification of X- and Y-chromosome-bearing goat spermatozoa. <i>Reproduction in Domestic Animals</i> , <b>2004</b> , 39, 58-60	1.6	18
78	Vitrification of in vitro cultured porcine two-to-four cell embryos. <i>Theriogenology</i> , <b>2007</b> , 68, 258-64	2.8	17
77	Environment and medium volume influence in vitro fertilisation of pig oocytes. <i>Zygote</i> , <b>1993</b> , 1, 209-13	1.6	17
76	Seasonal variations of semen quality in male goats: study of sperm abnormalities. <i>Theriogenology</i> , <b>1992</b> , 38, 115-25	2.8	17
75	Is boar sperm freezability more intrinsically linked to spermatozoa than to the surrounding seminal plasma?. <i>Animal Reproduction Science</i> , <b>2018</b> , 195, 30-37	2.1	16
74	Effects of Hoechst 33342 staining and ultraviolet irradiation on mitochondrial distribution and DNA copy number in porcine oocytes and preimplantation embryos. <i>Molecular Reproduction and Development</i> , <b>2012</b> , 79, 651-63	2.6	16
73	Seminal Plasma Cytokines Are Predictive of the Outcome of Boar Sperm Preservation. <i>Frontiers in Veterinary Science</i> , <b>2019</b> , 6, 436	3.1	16
72	Measurement of activity and concentration of paraoxonase 1 (PON-1) in seminal plasma and identification of PON-2 in the sperm of boar ejaculates. <i>Molecular Reproduction and Development</i> , <b>2015</b> , 82, 58-65	2.6	15

71	Achievements and future perspectives of embryo transfer technology in pigs. <i>Reproduction in Domestic Animals</i> , <b>2019</b> , 54 Suppl 4, 4-13	1.6	15
70	Forskolin improves the cryosurvival of in vivo-derived porcine embryos at very early stages using two vitrification methods. <i>Cryobiology</i> , <b>2013</b> , 66, 144-50	2.7	15
69	The overlaying oil type influences in vitro embryo production: differences in composition and compound transfer into incubation medium between oils. <i>Scientific Reports</i> , <b>2017</b> , 7, 10505	4.9	15
68	An earlier uterine environment favors the in vivo development of fresh pig morulae and blastocysts transferred by a nonsurgical deep-uterine method. <i>Journal of Reproduction and Development</i> , <b>2014</b> , 60, 371-6	2.1	15
67	Pentoxifylline added to freezing or post-thaw extenders does not improve the survival or in vitro fertilising capacity of boar spermatozoa. <i>Reproduction</i> , <b>2010</b> , 139, 557-64	3.8	15
66	Use of real-time ultrasonic scanning for the detection of reproductive failure in pig herds. <i>Animal Reproduction Science</i> , <b>1992</b> , 29, 53-59	2.1	14
65	Levels of activity of superoxide dismutase in seminal plasma do not predict fertility of pig AI-semen doses. <i>Theriogenology</i> , <b>2019</b> , 140, 18-24	2.8	13
64	The use of mineral oil during in vitro maturation, fertilization, and embryo culture does not impair the developmental competence of pig oocytes. <i>Theriogenology</i> , <b>2015</b> , 83, 693-702	2.8	13
63	Successful laparoscopic insemination with a very low number of flow cytometrically sorted boar sperm in field conditions. <i>Theriogenology</i> , <b>2014</b> , 81, 315-20	2.8	13
62	Design, development, and application of a non-surgical deep uterine embryo transfer technique in pigs. <i>Animal Frontiers</i> , <b>2013</b> , 3, 40-47	5.5	13
61	Influence of constant long days on ejaculate parameters of rabbits reared under natural environment conditions of Mediterranean area. <i>Livestock Science</i> , <b>2005</b> , 94, 169-177		13
60	Seminal Plasma: Relevant for Fertility?. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	13
59	Seminal Plasma Modifies the Transcriptional Pattern of the Endometrium and Advances Embryo Development in Pigs. <i>Frontiers in Veterinary Science</i> , <b>2019</b> , 6, 465	3.1	13
58	The Transcriptome of Pig Spermatozoa, and Its Role in Fertility. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	12
57	Localization and expression of spermadhesin PSP-I/PSP-II subunits in the reproductive organs of the boar. <i>Journal of Developmental and Physical Disabilities</i> , <b>2008</b> , 31, 408-17		12
56	Effects of ultrashort gamete co-incubation time on porcine in vitro fertilization. <i>Animal Reproduction Science</i> , <b>2008</b> , 106, 393-401	2.1	12
55	Influence of follicle size on the penetrability of immature pig oocytes for homologous in vitro penetration assay. <i>Theriogenology</i> , <b>2003</b> , 60, 659-67	2.8	12
54	Use of triple stain technique for simultaneous assessment of vitality and acrosomal status in boar spermatozoa. <i>Theriogenology</i> , <b>1992</b> , 38, 843-52	2.8	12



53	The in vitro and in vivo developmental capacity of selected porcine monospermic zygotes. <i>Theriogenology</i> , <b>2013</b> , 79, 392-8	2.8	11
52	Handling of boar spermatozoa during and after flow cytometric sex-sorting process to improve their in vitro fertilizing ability. <i>Theriogenology</i> , <b>2013</b> , 80, 350-6	2.8	11
51	Effect of MEM vitamins and forskolin on embryo development and vitrification tolerance of in vitro-produced pig embryos. <i>Animal Reproduction Science</i> , <b>2013</b> , 136, 296-302	2.1	11
50	Effects of Hoechst 33342 staining and ultraviolet irradiation on the developmental competence of in vitro-matured porcine oocytes. <i>Theriogenology</i> , <b>2011</b> , 76, 1667-75	2.8	11
49	Effects of complement component 3 derivatives on pig oocyte maturation, fertilization and early embryo development in vitro. <i>Reproduction in Domestic Animals</i> , <b>2011</b> , 46, 1017-21	1.6	11
48	The proteome of frozen-thawed pig spermatozoa is dependent on the ejaculate fraction source. <i>Scientific Reports</i> , <b>2019</b> , 9, 705	4.9	10
47	Validation of trans-rectal ultrasonography for counting preovulatory follicles in weaned sows. <i>Animal Reproduction Science</i> , <b>2009</b> , 113, 137-42	2.1	10
46	Lectin histochemistry during in vitro capacitation and acrosome reaction in boar spermatozoa: new lectins for evaluating acrosomal status of boar spermatozoa. <i>Acta Histochemica</i> , <b>1996</b> , 98, 93-100	2	10
45	The effects of hoechst 33342 staining and the male sample donor on the sorting efficiency of canine spermatozoa. <i>Reproduction in Domestic Animals</i> , <b>2014</b> , 49, 115-21	1.6	9
44	Influence of season on testicle size and libido in male goats from the Mediterranean area. <i>Animal Science</i> , <b>1991</b> , 52, 317-321		9
43	Developmental competence of porcine genome-edited zygotes. <i>Molecular Reproduction and Development</i> , <b>2017</b> , 84, 814-821	2.6	8
42	Post-thaw boar sperm motility is affected by prolonged storage of sperm in liquid nitrogen. A retrospective study. <i>Cryobiology</i> , <b>2018</b> , 80, 119-125	2.7	8
41	Egg yolk and glycerol requirements for freezing boar spermatozoa treated with methyl Cyclodextrin or cholesterol-loaded cyclodextrin. <i>Journal of Reproduction and Development</i> , <b>2014</b> , 60, 143-9	2.1	8
40	Altrenogest treatment before weaning improves litter size in sows. <i>Reproduction in Domestic Animals</i> , <b>2017</b> , 52 Suppl 4, 75-77	1.6	8
39	In vitro fertilization (IVF) in straws and a short gamete coincubation time improves the efficiency of porcine IVF. <i>Reproduction in Domestic Animals</i> , <b>2008</b> , 43, 747-52	1.6	8
38	Characterization of glycoside residues of porcine zona pellucida and ooplasm during follicular development and atresia. <i>Molecular Reproduction and Development</i> , <b>2008</b> , 75, 1473-83	2.6	8
37	Sperm Methylome Profiling Can Discern Fertility Levels in the Porcine Biomedical Model. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	8
36	Active paraoxonase 1 is synthesised throughout the internal boar genital organs. <i>Reproduction</i> , <b>2017</b> , 154, 237-243	3.8	7

35	Proteomics in fresh and preserved pig semen: Recent achievements and future challenges. <i>Theriogenology</i> , <b>2020</b> , 150, 41-47	2.8	7
34	Intra- and interboar variability in flow cytometric sperm sex sorting. <i>Theriogenology</i> , <b>2014</b> , 82, 501-8	2.8	7
33	The effect of glycerol concentrations on the post-thaw in vitro characteristics of cryopreserved sex-sorted boar spermatozoa. <i>Reproduction in Domestic Animals</i> , <b>2012</b> , 47, 965-74	1.6	7
32	Use of polarized light microscopy in porcine reproductive technologies. <i>Theriogenology</i> , <b>2011</b> , 76, 669-77	2.8	7
31	Use of frozen-thawed semen aggravates the summer-autumn infertility of artificially inseminated weaned sows in the Mediterranean region. <i>Journal of Animal Science</i> , <b>2009</b> , 87, 3967-75	0.7	7
30	Effects of rapid cooling prior to freezing on the quality of canine cryopreserved spermatozoa. <i>Journal of Reproduction and Development</i> , <b>2014</b> , 60, 355-61	2.1	7
29	Seminal Plasma Modulates miRNA Expression by Sow Genital Tract Lining Explants. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	6
28	Ovarian Follicle Growth during Lactation Determines the Reproductive Performance of Weaned Sows. <i>Animals</i> , <b>2020</b> , 10,	3.1	6
27	Effects of lipid polarisation on survival of in vivo-derived porcine zygotes vitrified by the superfine open pulled-straw method. <i>Reproduction, Fertility and Development</i> , <b>2013</b> , 25, 798-806	1.8	6
26	Seminal plasma affects sperm sex sorting in boars. <i>Reproduction, Fertility and Development</i> , <b>2016</b> , 28, 556-64	1.8	6
25	Extensive dataset of boar seminal plasma proteome displaying putative reproductive functions of identified proteins. <i>Data in Brief</i> , <b>2016</b> , 8, 1370-3	1.2	6
24	Prevention of hatching of porcine morulae and blastocysts by liquid storage at 20 °C. <i>Scientific Reports</i> , <b>2019</b> , 9, 6219	4.9	5
23	Seasonal variation in fructose and citric acid in seminal plasma of Murciano-Granadina goats. <i>Small Ruminant Research</i> , <b>1993</b> , 10, 219-226	1.7	5
22	Exploring Seminal Plasma GSTM3 as a Quality and In Vivo Fertility Biomarker in Pigs-Relationship with Sperm Morphology. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	5
21	Extracellular vesicles in seminal fluid and effects on male reproduction. An overview in farm animals and pets. <i>Animal Reproduction Science</i> , <b>2021</b> , 106853	2.1	5
20	Boar seminal plasma: current insights on its potential role for assisted reproductive technologies in swine. <i>Animal Reproduction</i> , <b>2020</b> , 17, e20200022	1.7	4
19	Granulocyte-macrophage colony stimulating factor (GM-CSF) is fully expressed in the genital tract, seminal plasma and spermatozoa of male pigs. <i>Scientific Reports</i> , <b>2020</b> , 10, 13360	4.9	4
18	Eventual re-vitrification or storage in liquid nitrogen vapor does not jeopardize the practical handling and transport of vitrified pig embryos. <i>Theriogenology</i> , <b>2018</b> , 113, 229-236	2.8	3

17	Ejaculate Collection Influences the Salivary Oxytocin Concentrations in Breeding Male Pigs. <i>Animals</i> , <b>2020</b> , 10,	3.1	3
16	Metabolite Profiling of Pig Seminal Plasma Identifies Potential Biomarkers for Sperm Resilience to Liquid Preservation. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 669974	5.7	3
15	Strategies to improve the fertility of frozen-thawed boar semen for artificial insemination. <i>Society of Reproduction and Fertility Supplement</i> , <b>2006</b> , 62, 261-75		3
14	Optimization of protocols for Iberian red deer ( <i>Cervus elaphus hispanicus</i> ) sperm handling before sex sorting by flow cytometry. <i>Theriogenology</i> , <b>2017</b> , 92, 129-136	2.8	2
13	Influence of insemination time on the fertility of sex sorted frozen-thawed Y-sperm in red deer. <i>Theriogenology</i> , <b>2018</b> , 113, 171-175	2.8	2
12	Exposure of in vitro-matured porcine oocytes to SYBR-14 and fluorescence impairs their developmental capacity. <i>Animal Reproduction Science</i> , <b>2012</b> , 133, 101-8	2.1	2
11	Period of Boar Ejaculate Collection Contributes to the Yearly Intra-Male Variability of Seminal Plasma Cytokines. <i>Biology</i> , <b>2020</b> , 9,	4.9	2
10	Measurable Cytokine Concentrations in Pig Seminal Plasma Are Modified by Semen Handling and Storage. <i>Biology</i> , <b>2020</b> , 9,	4.9	2
9	Aldose Reductase B1 in Pig Seminal Plasma: Identification, Localization in Reproductive Tissues, and Relationship With Quality and Sperm Preservation. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 683199	5.7	2
8	Measurement of Oxidative Stress Index in Seminal Plasma Can Predict In Vivo Fertility of Liquid-Stored Porcine Artificial Insemination Semen Doses. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	2
7	How does the boar epididymis regulate the emission of fertile spermatozoa?. <i>Animal Reproduction Science</i> , <b>2021</b> , 106829	2.1	2
6	ARE WASHING and PREINCUBATION OF BOAR SPERMATOZOA REALLY NECESSARY TO PENETRATE PIG OOCYTES UNDER IN VITRO CONDITIONS?. <i>Reproduction in Domestic Animals</i> , <b>1996</b> , 31, 317-320	1.6	1
5	mRNA expression of oxidative-reductive proteins in boars with documented different fertility can identify relevant prognostic biomarkers. <i>Research in Veterinary Science</i> , <b>2021</b> , 141, 195-202	2.5	0
4	Metabolomic fingerprinting of pig seminal plasma identifies in vivo fertility biomarkers. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 113	6	0
3	Sugar Concentration of the Freezing Extender Modulates the Motility Pattern of Frozen-Thawed Boar Spermatozoa.. <i>Biology of Reproduction</i> , <b>2008</b> , 78, 225-225	3.9	0
2	Delays in processing and storage of pig seminal plasma alters levels of contained antioxidants. <i>Research in Veterinary Science</i> , <b>2021</b> , 135, 416-423	2.5	0
1	Oxytocin in pig seminal plasma is positively related with in vivo fertility of inseminated sows. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 101	6	0