

Juan María Vázquez Rojas

List of Publications by Year in descending order

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96
papers

4,054
citations

81839

39
h-index

133188

59
g-index

98
all docs

98
docs citations

98
times ranked

1988
citing authors

#	ARTICLE	IF	CITATIONS
1	Boar spermatozoa in the oviduct. <i>Theriogenology</i> , 2005, 63, 514-535.	0.9	184
2	Modulation of The Oviductal Environment by Gametes. <i>Journal of Proteome Research</i> , 2007, 6, 4656-4666.	1.8	132
3	Factors influencing boar sperm cryosurvival ¹ . <i>Journal of Animal Science</i> , 2006, 84, 2692-2699.	0.2	120
4	Effects of Centrifugation Before Freezing on Boar Sperm Cryosurvival. <i>Journal of Andrology</i> , 2004, 25, 389-396.	2.0	116
5	Influence of Porcine Spermadhesins on the Susceptibility of Boar Spermatozoa to High Dilution ¹ . <i>Biology of Reproduction</i> , 2003, 69, 640-646.	1.2	106
6	Fertility of weaned sows after deep intrauterine insemination with a reduced number of frozen-thawed spermatozoa. <i>Theriogenology</i> , 2003, 60, 77-87.	0.9	103
7	The battle of the sexes starts in the oviduct: modulation of oviductal transcriptome by X and Y-bearing spermatozoa. <i>BMC Genomics</i> , 2014, 15, 293.	1.2	101
8	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> , 2007, 28, 689-697.	2.0	94
9	Kinematic Changes During the Cryopreservation of Boar Spermatozoa. <i>Journal of Andrology</i> , 2005, 26, 610-618.	2.0	92
10	Hypoosmotic swelling of boar spermatozoa compared to other methods for analysing the sperm membrane. <i>Theriogenology</i> , 1997, 47, 913-922.	0.9	86
11	Selection of immature pig oocytes for homologous in vitro penetration assays with the brilliant cresyl blue test. <i>Reproduction, Fertility and Development</i> , 1998, 10, 479.	0.1	86
12	Viability and fertility of rabbit spermatozoa diluted in Tris-buffer extenders and stored at 15°C. <i>Animal Reproduction Science</i> , 2000, 64, 103-112.	0.5	82
13	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> , 2001, 55, 1593-1605.	0.9	77
14	Adjustments on the cryopreservation conditions reduce the incidence of boar ejaculates with poor sperm freezability. <i>Theriogenology</i> , 2007, 67, 1436-1445.	0.9	76
15	Birth of piglets after deep intrauterine insemination with flow cytometrically sorted boar spermatozoa. <i>Theriogenology</i> , 2003, 59, 1605-1614.	0.9	71
16	Early Developing Pig Embryos Mediate Their Own Environment in the Maternal Tract. <i>PLoS ONE</i> , 2012, 7, e33625.	1.1	70
17	Vitrification of porcine embryos at various developmental stages using different ultra-rapid cooling procedures. <i>Theriogenology</i> , 2004, 62, 353-361.	0.9	65
18	Successful nonsurgical deep uterine embryo transfer in pigs. <i>Theriogenology</i> , 2004, 61, 137-146.	0.9	65

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19	Differences in SCSA outcome among boars with different sperm freezability. <i>Journal of Developmental and Physical Disabilities</i> , 2006, 29, 583-591.	3.6	65
20	Comparative Effects of Autologous and Homologous Seminal Plasma on the Viability of Largely Extended Boar Spermatozoa. <i>Reproduction in Domestic Animals</i> , 2004, 39, 370-375.	0.6	59
21	In vitro development following one-step dilution of OPS-vitrified porcine blastocysts. <i>Theriogenology</i> , 2004, 62, 1144-1152.	0.9	58
22	Improving the efficiency of sperm technologies in pigs: the value of deep intrauterine insemination. <i>Theriogenology</i> , 2005, 63, 536-547.	0.9	56
23	Piglets born after non-surgical deep intrauterine transfer of vitrified blastocysts in gilts. <i>Animal Reproduction Science</i> , 2005, 85, 275-286.	0.5	56
24	Spermadhesin PSP-I/PSP-II heterodimer induces migration of polymorphonuclear neutrophils into the uterine cavity of the sow. <i>Journal of Reproductive Immunology</i> , 2010, 84, 57-65.	0.8	55
25	Preselection of sex of offspring in swine for production: current status of the process and its application. <i>Theriogenology</i> , 2005, 63, 615-624.	0.9	54
26	PSP-I/PSP-II spermadhesin exert a decapacitation effect on highly extended boar spermatozoa. <i>Journal of Developmental and Physical Disabilities</i> , 2009, 32, 505-513.	3.6	54
27	Major proteins of boar seminal plasma as a tool for biotechnological preservation of spermatozoa. <i>Theriogenology</i> , 2008, 70, 1352-1355.	0.9	52
28	Characteristics and seasonal variations in the semen of Murciano-Granadina goats in the Mediterranean area. <i>Animal Reproduction Science</i> , 1992, 29, 255-262.	0.5	48
29	Effect of the volume of medium and number of oocytes during in vitro fertilization on embryo development in pigs. <i>Theriogenology</i> , 2003, 60, 767-776.	0.9	46
30	Sex-sorting sperm by flow cytometry in pigs: Issues and perspectives. <i>Theriogenology</i> , 2009, 71, 80-88.	0.9	46
31	Improvement of boar sperm cryosurvival by using single-layer colloid centrifugation prior freezing. <i>Theriogenology</i> , 2012, 78, 1117-1125.	0.9	46
32	Does multivariate analysis of post-thaw sperm characteristics accurately estimate in vitro fertility of boar individual ejaculates?. <i>Theriogenology</i> , 2005, 64, 305-316.	0.9	45
33	Retained Functional Integrity of Bull Spermatozoa after Double Freezing and Thawing Using PureSperm® Density Gradient Centrifugation. <i>Reproduction in Domestic Animals</i> , 2007, 42, 489-494.	0.6	45
34	Successful Non-Surgical Deep Uterine Transfer of Porcine Morulae after 24 Hour Culture in a Chemically Defined Medium. <i>PLoS ONE</i> , 2014, 9, e104696.	1.1	45
35	Immunolocalization and Possible Functional Role of PSP-I/PSP-II Heterodimer in Highly Extended Boar Spermatozoa. <i>Journal of Andrology</i> , 2006, 27, 766-773.	2.0	44
36	Relationship between antral follicle size, oocyte diameters and nuclear maturation of immature oocytes in pigs. <i>Theriogenology</i> , 2002, 58, 871-885.	0.9	43

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37	Dissecting the Protective Effect of the Seminal Plasma Spermadhesin PSP-I/PSP-II on Boar Sperm Functionality. <i>Journal of Andrology</i> , 2006, 27, 434-443.	2.0	43
38	Dissimilarities in sows' ovarian status at the insemination time could explain differences in fertility between farms when frozen-thawed semen is used. <i>Theriogenology</i> , 2006, 65, 669-680.	0.9	43
39	Factors affecting the success rate of porcine embryo vitrification by the Open Pulled Straw method. <i>Animal Reproduction Science</i> , 2008, 108, 334-344.	0.5	43
40	Detrimental Effects of Non-Functional Spermatozoa on the Freezability of Functional Spermatozoa from Boar Ejaculate. <i>PLoS ONE</i> , 2012, 7, e36550.	1.1	42
41	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> , 2011, 129, 209-220.	0.5	41
42	Boar semen variability and its effects on IVF efficiency. <i>Theriogenology</i> , 2008, 70, 1260-1268.	0.9	40
43	Effect of short periods of sperm-oocyte coincubation during in vitro fertilization on embryo development in pigs. <i>Theriogenology</i> , 2004, 62, 544-552.	0.9	39
44	Effect of the cryoprotectant concentration on the in vitro embryo development and cell proliferation of OPS-vitrified porcine blastocysts. <i>Cryobiology</i> , 2008, 56, 189-194.	0.3	39
45	An update on Reproductive Technologies with Potential Short-Term Application in Pig Production. <i>Reproduction in Domestic Animals</i> , 2005, 40, 300-309.	0.6	38
46	Improving the fertilizing ability of sex sorted boar spermatozoa. <i>Theriogenology</i> , 2007, 68, 771-778.	0.9	37
47	New developments in low-dose insemination technology. <i>Theriogenology</i> , 2008, 70, 1216-1224.	0.9	37
48	Evaluation of l-glutamine for cryopreservation of boar spermatozoa. <i>Animal Reproduction Science</i> , 2009, 115, 149-157.	0.5	36
49	Differences in the ability of spermatozoa from individual boar ejaculates to withstand different semen-processing techniques. <i>Animal Reproduction Science</i> , 2012, 132, 66-73.	0.5	34
50	Adjustments in IVF system for individual boars: Value of additives and time of sperm-oocyte co-incubation. <i>Theriogenology</i> , 2005, 64, 1783-1796.	0.9	32
51	Motility Characteristics and Fertilizing Capacity of Boar Spermatozoa Stained with Hoechst 33342. <i>Reproduction in Domestic Animals</i> , 2002, 37, 369-374.	0.6	31
52	Incidence of Unilateral Fertilizations after Low Dose Deep Intrauterine Insemination in Spontaneously Ovulating Sows under Field Conditions. <i>Reproduction in Domestic Animals</i> , 2006, 41, 41-47.	0.6	31
53	The effectiveness of the stereomicroscopic evaluation of embryo quality in vitrified-warmed porcine blastocysts: An ultrastructural and cell death study. <i>Theriogenology</i> , 2007, 67, 970-982.	0.9	31
54	In vitro maturation of porcine oocytes with retinoids improves embryonic development. <i>Reproduction, Fertility and Development</i> , 2008, 20, 483.	0.1	31

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55	In vitro penetration assay of boar sperm fertility: Effect of various factors on the penetrability of immature pig oocytes. <i>Theriogenology</i> , 1996, 46, 503-513.	0.9	30
56	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> , 2009, 44, 200-205.	0.6	30
57	Superfine open pulled straws vitrification of porcine blastocysts does not require pretreatment with cytochalasin B and/or centrifugation. <i>Reproduction, Fertility and Development</i> , 2010, 22, 808.	0.1	30
58	Boar semen can tolerate rapid cooling rates prior to freezing. <i>Reproduction, Fertility and Development</i> , 2011, 23, 681.	0.1	30
59	Influence of seminal plasma PSP-I/PSP-II spermadhesin on pig gamete interaction. <i>Zygote</i> , 2005, 13, 11-16.	0.5	29
60	Brief coincubation of gametes in porcine in vitro fertilization: Role of sperm:oocyte ratio and post-coincubation medium. <i>Theriogenology</i> , 2007, 67, 620-626.	0.9	29
61	The nuclear DNA longevity in cryopreserved boar spermatozoa assessed using the Sperm-Sus-Halomax. <i>Theriogenology</i> , 2013, 79, 1294-1300.	0.9	29
62	Achievements and future perspectives of embryo transfer technology in pigs. <i>Reproduction in Domestic Animals</i> , 2019, 54, 4-13.	0.6	29
63	Influence of storage time on functional capacity of flow cytometrically sex-sorted boar spermatozoa. <i>Theriogenology</i> , 2005, 64, 86-98.	0.9	28
64	Vitrification and warming of in vivo derived porcine embryos in a chemically defined medium. <i>Theriogenology</i> , 2010, 73, 300-308.	0.9	27
65	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> , 2004, 61, 551-560.	0.9	26
66	Bicarbonate/CO ₂ induces rapid activation of phospholipase A ₂ and renders boar spermatozoa capable of undergoing acrosomal exocytosis in response to progesterone. <i>FEBS Letters</i> , 1996, 396, 227-232.	1.3	25
67	In vitro postwarming viability of vitrified porcine embryos: Effect of cryostorage length. <i>Theriogenology</i> , 2010, 74, 486-490.	0.9	23
68	Diacylglycerol species as messengers and substrates for phosphatidylcholine re-synthesis during Ca ²⁺ -dependent exocytosis in boar spermatozoa. <i>Molecular Reproduction and Development</i> , 1997, 48, 95-105.	1.0	21
69	Cryo-scanning electron microscopy (Cryo-SEM) of semen frozen in medium-straws from good and sub-standard freezer AI-boars. <i>Cryobiology</i> , 2007, 54, 63-70.	0.3	21
70	Non-surgical deep intrauterine transfer of superfine open pulled straw (SOPS)-vitrified porcine embryos: Evaluation of critical steps of the procedure. <i>Theriogenology</i> , 2012, 78, 1339-1349.	0.9	21
71	Flow Cytometry Identification of X- and Y-Chromosome-Bearing Goat Spermatozoa. <i>Reproduction in Domestic Animals</i> , 2004, 39, 58-60.	0.6	20
72	Magnetic resonance angiography of the normal canine heart and associated blood vessels. <i>Veterinary Journal</i> , 2008, 178, 130-132.	0.6	20

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73	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> , 2012, 79, 651-663.	1.0	20
74	Vitrification of in vitro cultured porcine two-to-four cell embryos. <i>Theriogenology</i> , 2007, 68, 258-264.	0.9	19
75	Influence of constant long days on ejaculate parameters of rabbits reared under natural environment conditions of Mediterranean area. <i>Livestock Science</i> , 2005, 94, 169-177.	1.2	18
76	Effects of Complement Component 3 Derivatives on Pig Oocyte Maturation, Fertilization and Early Embryo Development <i>In Vitro</i> . <i>Reproduction in Domestic Animals</i> , 2011, 46, 1017-1021.	0.6	17
77	Forskolin improves the cryosurvival of in vivo-derived porcine embryos at very early stages using two vitrification methods. <i>Cryobiology</i> , 2013, 66, 144-150.	0.3	16
78	Use of real-time ultrasonic scanning for the detection of reproductive failure in pig herds. <i>Animal Reproduction Science</i> , 1992, 29, 53-59.	0.5	15
79	Effect of MEM vitamins and forskolin on embryo development and vitrification tolerance of in vitro-produced pig embryos. <i>Animal Reproduction Science</i> , 2013, 136, 296-302.	0.5	15
80	Effects of ultrashort gamete co-incubation time on porcine in vitro fertilization. <i>Animal Reproduction Science</i> , 2008, 106, 393-401.	0.5	14
81	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> , 1996, 98, 93-100.	0.9	13
82	Influence of follicle size on the penetrability of immature pig oocytes for homologous in vitro penetration assay. <i>Theriogenology</i> , 2003, 60, 659-667.	0.9	13
83	Localization and expression of spermadhesin PSP α /PSP β subunits in the reproductive organs of the boar. <i>Journal of Developmental and Physical Disabilities</i> , 2008, 31, 408-417.	3.6	12
84	Effects of Hoechst 33342 staining and ultraviolet irradiation on the developmental competence of in vitro-matured porcine oocytes. <i>Theriogenology</i> , 2011, 76, 1667-1675.	0.9	12
85	The in vitro and in vivo developmental capacity of selected porcine monospermic zygotes. <i>Theriogenology</i> , 2013, 79, 392-398.	0.9	12
86	Handling of boar spermatozoa during and after flow cytometric sex-sorting process to improve their in vitro fertilizing ability. <i>Theriogenology</i> , 2013, 80, 350-356.	0.9	12
87	Use of frozen-thawed semen aggravates the summer-autumn infertility of artificially inseminated weaned sows in the Mediterranean region ¹ . <i>Journal of Animal Science</i> , 2009, 87, 3967-3975.	0.2	11
88	Validation of trans-rectal ultrasonography for counting preovulatory follicles in weaned sows. <i>Animal Reproduction Science</i> , 2009, 113, 137-142.	0.5	11
89	Characterization of glycoside residues of porcine zona pellucida and ooplasm during follicular development and atresia. <i>Molecular Reproduction and Development</i> , 2008, 75, 1473-1483.	1.0	10
90	<i>In Vitro</i> Fertilization (IVF) in Straws and a Short Gamete Coincubation Time Improves the Efficiency of Porcine IVF. <i>Reproduction in Domestic Animals</i> , 2008, 43, 747-752.	0.6	9

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91	Use of polarized light microscopy in porcine reproductive technologies. <i>Theriogenology</i> , 2011, 76, 669-677.	0.9	7
92	The Effect of Glycerol Concentrations on the Post-thaw <i>In Vitro</i> Characteristics of Cryopreserved Sex-sorted Boar Spermatozoa. <i>Reproduction in Domestic Animals</i> , 2012, 47, 965-974.	0.6	7
93	Black and bright-blood sequences magnetic resonance angiography and gross sections of the canine thorax: An anatomical study. <i>Veterinary Journal</i> , 2010, 185, 231-234.	0.6	4
94	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
95	Exposure of in vitro-matured porcine oocytes to SYBR-14 and fluorescence impairs their developmental capacity. <i>Animal Reproduction Science</i> , 2012, 133, 101-108.	0.5	2
96	Influence of insemination time on the fertility of sex sorted frozen-thawed Y-sperm in red deer. <i>Theriogenology</i> , 2018, 113, 171-175.	0.9	2