

Juan Mara Vzquez Rojas

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96
papers

3,520
citations

37
h-index

53
g-index

98
ext. papers

3,753
ext. citations

2.4
avg, IF

4.47
L-index

#	Paper	IF	Citations
96	Boar spermatozoa in the oviduct. <i>Theriogenology</i> , 2005 , 63, 514-35	2.8	168
95	Modulation of the oviductal environment by gametes. <i>Journal of Proteome Research</i> , 2007 , 6, 4656-66	5.6	123
94	Effects of centrifugation before freezing on boar sperm cryosurvival. <i>Journal of Andrology</i> , 2004 , 25, 389-96		107
93	Factors influencing boar sperm cryosurvival. <i>Journal of Animal Science</i> , 2006 , 84, 2692-9	0.7	103
92	Fertility of weaned sows after deep intrauterine insemination with a reduced number of frozen-thawed spermatozoa. <i>Theriogenology</i> , 2003 , 60, 77-87	2.8	93
91	Influence of porcine spermadhesins on the susceptibility of boar spermatozoa to high dilution. <i>Biology of Reproduction</i> , 2003 , 69, 640-6	3.9	93
90	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	4.5	88
89	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, 479-85	1.8	82
88	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, 689-97		79
87	Kinematic changes during the cryopreservation of boar spermatozoa. <i>Journal of Andrology</i> , 2005 , 26, 610-8		78
86	Hypoosmotic swelling of boar spermatozoa compared to other methods for analysing the sperm membrane. <i>Theriogenology</i> , 1997 , 47, 913-22	2.8	76
85	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, 1593-605	2.8	71
84	Adjustments on the cryopreservation conditions reduce the incidence of boar ejaculates with poor sperm freezability. <i>Theriogenology</i> , 2007 , 67, 1436-45	2.8	65
83	Viability and fertility of rabbit spermatozoa diluted in Tris-buffer extenders and stored at 15 degrees C. <i>Animal Reproduction Science</i> , 2000 , 64, 103-12	2.1	65
82	Birth of piglets after deep intrauterine insemination with flow cytometrically sorted boar spermatozoa. <i>Theriogenology</i> , 2003 , 59, 1605-14	2.8	64
81	Early developing pig embryos mediate their own environment in the maternal tract. <i>PLoS ONE</i> , 2012 , 7, e33625	3.7	62
80	Vitrification of porcine embryos at various developmental stages using different ultra-rapid cooling procedures. <i>Theriogenology</i> , 2004 , 62, 353-61	2.8	59

79	Differences in SCSA outcome among boars with different sperm freezability. <i>Journal of Developmental and Physical Disabilities</i> , 2006 , 29, 583-91		58
78	Successful nonsurgical deep uterine embryo transfer in pigs. <i>Theriogenology</i> , 2004 , 61, 137-46	2.8	56
77	In vitro development following one-step dilution of OPS-vitrified porcine blastocysts. <i>Theriogenology</i> , 2004 , 62, 1144-52	2.8	55
76	Comparative effects of autologous and homologous seminal plasma on the viability of largely extended boar spermatozoa. <i>Reproduction in Domestic Animals</i> , 2004 , 39, 370-5	1.6	54
75	Piglets born after non-surgical deep intrauterine transfer of vitrified blastocysts in gilts. <i>Animal Reproduction Science</i> , 2005 , 85, 275-86	2.1	52
74	PSP-I/PSP-II spermadhesin exert a decapacitation effect on highly extended boar spermatozoa. <i>Journal of Developmental and Physical Disabilities</i> , 2009 , 32, 505-13		48
73	Improving the efficiency of sperm technologies in pigs: the value of deep intrauterine insemination. <i>Theriogenology</i> , 2005 , 63, 536-47	2.8	48
72	Preselection of sex of offspring in swine for production: current status of the process and its application. <i>Theriogenology</i> , 2005 , 63, 615-24	2.8	46
71	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	4.2	43
70	Major proteins of boar seminal plasma as a tool for biotechnological preservation of spermatozoa. <i>Theriogenology</i> , 2008 , 70, 1352-5	2.8	43
69	Sex-sorting sperm by flow cytometry in pigs: issues and perspectives. <i>Theriogenology</i> , 2009 , 71, 80-8	2.8	41
68	Relationship between antral follicle size, oocyte diameters and nuclear maturation of immature oocytes in pigs. <i>Theriogenology</i> , 2002 , 58, 871-85	2.8	41
67	Retained functional integrity of bull spermatozoa after double freezing and thawing using PureSperm density gradient centrifugation. <i>Reproduction in Domestic Animals</i> , 2007 , 42, 489-94	1.6	40
66	Immunolocalization and possible functional role of PSP-I/PSP-II heterodimer in highly extended boar spermatozoa. <i>Journal of Andrology</i> , 2006 , 27, 766-73		40
65	Effect of the volume of medium and number of oocytes during in vitro fertilization on embryo development in pigs. <i>Theriogenology</i> , 2003 , 60, 767-76	2.8	40
64	Characteristics and seasonal variations in the semen of Murciano-Granadina goats in the Mediterranean area. <i>Animal Reproduction Science</i> , 1992 , 29, 255-262	2.1	40
63	Improvement of boar sperm cryosurvival by using single-layer colloid centrifugation prior freezing. <i>Theriogenology</i> , 2012 , 78, 1117-25	2.8	39
62	Dissimilarities in sowsTovarian status at the insemination time could explain differences in fertility between farms when frozen-thawed semen is used. <i>Theriogenology</i> , 2006 , 65, 669-80	2.8	39

61	Does multivariate analysis of post-thaw sperm characteristics accurately estimate in vitro fertility of boar individual ejaculates?. <i>Theriogenology</i> , 2005 , 64, 305-16	2.8	38
60	Dissecting the protective effect of the seminal plasma spermadhesin PSP-I/PSP-II on boar sperm functionality. <i>Journal of Andrology</i> , 2006 , 27, 434-43		37
59	Effect of short periods of sperm-oocyte coincubation during in vitro fertilization on embryo development in pigs. <i>Theriogenology</i> , 2004 , 62, 544-52	2.8	37
58	Factors affecting the success rate of porcine embryo vitrification by the Open Pulled Straw method. <i>Animal Reproduction Science</i> , 2008 , 108, 334-44	2.1	36
57	Improving the fertilizing ability of sex sorted boar spermatozoa. <i>Theriogenology</i> , 2007 , 68, 771-8	2.8	34
56	Detrimental effects of non-functional spermatozoa on the freezability of functional spermatozoa from boar ejaculate. <i>PLoS ONE</i> , 2012 , 7, e36550	3.7	33
55	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	2.1	32
54	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, 209-20	2.1	32
53	Boar semen variability and its effects on IVF efficiency. <i>Theriogenology</i> , 2008 , 70, 1260-8	2.8	32
52	Effect of the cryoprotectant concentration on the in vitro embryo development and cell proliferation of OPS-vitrified porcine blastocysts. <i>Cryobiology</i> , 2008 , 56, 189-94	2.7	32
51	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	3.7	31
50	An update on reproductive technologies with potential short-term application in pig production. <i>Reproduction in Domestic Animals</i> , 2005 , 40, 300-9	1.6	31
49	New developments in low-dose insemination technology. <i>Theriogenology</i> , 2008 , 70, 1216-24	2.8	30
48	Motility characteristics and fertilizing capacity of boar spermatozoa stained with Hoechst 33342. <i>Reproduction in Domestic Animals</i> , 2002 , 37, 369-74	1.6	29
47	In vitro penetration assay of boar sperm fertility: effect of various factors on the penetrability of immature pig oocytes. <i>Theriogenology</i> , 1996 , 46, 503-13	2.8	29
46	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, 41-7	1.6	28
45	Evaluation of l-glutamine for cryopreservation of boar spermatozoa. <i>Animal Reproduction Science</i> , 2009 , 115, 149-57	2.1	27
44	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, 970-82	2.8	27

43	Adjustments in IVF system for individual boars: value of additives and time of sperm-oocyte co-incubation. <i>Theriogenology</i> , 2005 , 64, 1783-96	2.8	27
42	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, 808-17	1.8	26
41	Brief coincubation of gametes in porcine in vitro fertilization: role of sperm:oocyte ratio and post-coincubation medium. <i>Theriogenology</i> , 2007 , 67, 620-6	2.8	25
40	Influence of storage time on functional capacity of flow cytometrically sex-sorted boar spermatozoa. <i>Theriogenology</i> , 2005 , 64, 86-98	2.8	25
39	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, 551-60	2.8	25
38	Boar semen can tolerate rapid cooling rates prior to freezing. <i>Reproduction, Fertility and Development</i> , 2011 , 23, 681-90	1.8	24
37	Vitrification and warming of in vivo-derived porcine embryos in a chemically defined medium. <i>Theriogenology</i> , 2010 , 73, 300-8	2.8	24
36	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, 200-5	1.6	24
35	In vitro maturation of porcine oocytes with retinoids improves embryonic development. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 483-9	1.8	24
34	Influence of seminal plasma PSP-I/PSP-II spermadhesin on pig gamete interaction. <i>Zygote</i> , 2005 , 13, 11-6	1.6	23
33	The nuclear DNA longevity in cryopreserved boar spermatozoa assessed using the Sperm-Sus-Halomax. <i>Theriogenology</i> , 2013 , 79, 1294-300	2.8	22
32	In vitro postwarming viability of vitrified porcine embryos: effect of cryostorage length. <i>Theriogenology</i> , 2010 , 74, 486-90	2.8	20
31	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	2.7	20
30	Bicarbonate/CO ₂ induces rapid activation of phospholipase A2 and renders boar spermatozoa capable of undergoing acrosomal exocytosis in response to progesterone. <i>FEBS Letters</i> , 1996 , 396, 227-32	2.8	20
29	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, 1339-49	2.8	18
28	Flow cytometry identification of X- and Y-chromosome-bearing goat spermatozoa. <i>Reproduction in Domestic Animals</i> , 2004 , 39, 58-60	1.6	18
27	Vitrification of in vitro cultured porcine two-to-four cell embryos. <i>Theriogenology</i> , 2007 , 68, 258-64	2.8	17
26	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, 651-63	2.6	16

25	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	2.6	16
24	Magnetic resonance angiography of the normal canine heart and associated blood vessels. <i>Veterinary Journal</i> , 2008 , 178, 130-2	2.5	16
23	Achievements and future perspectives of embryo transfer technology in pigs. <i>Reproduction in Domestic Animals</i> , 2019 , 54 Suppl 4, 4-13	1.6	15
22	Forskolin improves the cryosurvival of in vivo-derived porcine embryos at very early stages using two vitrification methods. <i>Cryobiology</i> , 2013 , 66, 144-50	2.7	15
21	Use of real-time ultrasonic scanning for the detection of reproductive failure in pig herds. <i>Animal Reproduction Science</i> , 1992 , 29, 53-59	2.1	14
20	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		13
19	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> , 2008 , 31, 408-17		12
18	Effects of ultrashort gamete co-incubation time on porcine in vitro fertilization. <i>Animal Reproduction Science</i> , 2008 , 106, 393-401	2.1	12
17	Influence of follicle size on the penetrability of immature pig oocytes for homologous in vitro penetration assay. <i>Theriogenology</i> , 2003 , 60, 659-67	2.8	12
16	The in vitro and in vivo developmental capacity of selected porcine monospermic zygotes. <i>Theriogenology</i> , 2013 , 79, 392-8	2.8	11
15	Handling of boar spermatozoa during and after flow cytometric sex-sorting process to improve their in vitro fertilizing ability. <i>Theriogenology</i> , 2013 , 80, 350-6	2.8	11
14	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	2.1	11
13	Effects of Hoechst 33342 staining and ultraviolet irradiation on the developmental competence of in vitro-matured porcine oocytes. <i>Theriogenology</i> , 2011 , 76, 1667-75	2.8	11
12	Effects of complement component 3 derivatives on pig oocyte maturation, fertilization and early embryo development in vitro. <i>Reproduction in Domestic Animals</i> , 2011 , 46, 1017-21	1.6	11
11	Validation of trans-rectal ultrasonography for counting preovulatory follicles in weaned sows. <i>Animal Reproduction Science</i> , 2009 , 113, 137-42	2.1	10
10	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	2	10
9	In vitro fertilization (IVF) in straws and a short gamete co-incubation time improves the efficiency of porcine IVF. <i>Reproduction in Domestic Animals</i> , 2008 , 43, 747-52	1.6	8
8	Characterization of glycoside residues of porcine zona pellucida and ooplasm during follicular development and atresia. <i>Molecular Reproduction and Development</i> , 2008 , 75, 1473-83	2.6	8

7	The effect of glycerol concentrations on the post-thaw in vitro characteristics of cryopreserved sex-sorted boar spermatozoa. <i>Reproduction in Domestic Animals</i> , 2012 , 47, 965-74	1.6	7
6	Use of polarized light microscopy in porcine reproductive technologies. <i>Theriogenology</i> , 2011 , 76, 669-77.8		7
5	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> , 2009 , 87, 3967-75	0.7	7
4	Black and bright-blood sequences magnetic resonance angiography and gross sections of the canine thorax: an anatomical study. <i>Veterinary Journal</i> , 2010 , 185, 231-4	2.5	4
3	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	2.8	2
2	Influence of insemination time on the fertility of sex sorted frozen-thawed Y-sperm in red deer. <i>Theriogenology</i> , 2018 , 113, 171-175	2.8	2
1	Exposure of in vitro-matured porcine oocytes to SYBR-14 and fluorescence impairs their developmental capacity. <i>Animal Reproduction Science</i> , 2012 , 133, 101-8	2.1	2