

# Carmen Matas

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

1,418  
citations

23  
h-index

37  
g-index

54  
ext. papers

1,605  
ext. citations

3.2  
avg, IF

4.13  
L-index

#	Paper	IF	Citations
52	Growth analysis and blood profile in piglets born by embryo transfer. <i>Research in Veterinary Science</i> , <b>2021</b> , 142, 43-53	2.5	1
51	Nitric oxide-targeted protein phosphorylation during human sperm capacitation. <i>Scientific Reports</i> , <b>2021</b> , 11, 20979	4.9	2
50	Nitrite and Nitrate Levels in Follicular Fluid From Human Oocyte Donors Are Related to Ovarian Response and Embryo Quality. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 647002	5.7	4
49	Evidence of haptoglobin in the porcine female genital tract during oestrous cycle and its effect on in vitro embryo production. <i>Scientific Reports</i> , <b>2021</b> , 11, 12041	4.9	2
48	Epididymal and ejaculated sperm functionality is regulated differently by periovulatory oviductal fluid in pigs. <i>Andrology</i> , <b>2021</b> , 9, 426-439	4.2	0
47	Seminal plasma components from fertile stallions involved in the epididymal sperm freezability. <i>Andrology</i> , <b>2021</b> , 9, 728-743	4.2	2
46	Involvement of nitric oxide during in vitro oocyte maturation, sperm capacitation and in vitro fertilization in pig. <i>Research in Veterinary Science</i> , <b>2021</b> , 134, 150-158	2.5	0
45	Generation of Nonmosaic, Two-Pore Channel 2 Biallelic Knockout Pigs in One Generation by CRISPR-Cas9 Microinjection Before Oocyte Insemination. <i>CRISPR Journal</i> , <b>2021</b> , 4, 132-146	2.5	5
44	Reproductive technologies in swine <b>2020</b> , 67-79		1
43	The Journey of the Porcine Spermatozoa from Its Origin to the Fertilization Site: The Road In Vivo vs. In Vitro <b>2020</b> , 247-282		
42	Periovulatory oviductal fluid decreases sperm protein kinase A activity, tyrosine phosphorylation, and in vitro fertilization in pig. <i>Andrology</i> , <b>2020</b> , 8, 756-768	4.2	4
41	Pig in vitro fertilization: Where are we and where do we go?. <i>Theriogenology</i> , <b>2019</b> , 137, 113-121	2.8	23
40	Manipulation of bicarbonate concentration in sperm capacitation media improves in vitro fertilisation output in porcine species. <i>Journal of Animal Science and Biotechnology</i> , <b>2019</b> , 10, 19	6	11
39	Regulation of boar sperm functionality by the nitric oxide synthase/nitric oxide system. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2019</b> , 36, 1721-1736	3.4	10
38	Assessment and preservation of liquid and frozen-thawed Black crested mangabey ( <i>Lophocebus aterrimus</i> ) spermatozoa obtained by transrectal ultrasonic-guided massage of the accessory sex glands and electroejaculation. <i>Animal Reproduction Science</i> , <b>2019</b> , 210, 106176	2.1	4
37	Physiology learning for veterinary students: impact of guided practices on students' opinion and physiological parameters. <i>American Journal of Physiology - Advances in Physiology Education</i> , <b>2018</b> , 42, 215-224	1.9	2
36	Optimization of post-cervical artificial insemination in gilts: Effect of cervical relaxation procedures and catheter type. <i>Theriogenology</i> , <b>2017</b> , 90, 147-152	2.8	7

35	Improving porcine in vitro fertilization output by simulating the oviductal environment. <i>Scientific Reports</i> , <b>2017</b> , 7,	4.9	14
34	Oviductal epithelial cells selected boar sperm according to their functional characteristics. <i>Asian Journal of Andrology</i> , <b>2017</b> , 19, 396-403	2.8	15
33	Importance of sperm morphology during sperm transport and fertilization in mammals. <i>Asian Journal of Andrology</i> , <b>2016</b> , 18, 844-850	2.8	32
32	Morphometry of boar sperm head and flagellum in semen backflow after insemination. <i>Theriogenology</i> , <b>2015</b> , 84, 566-74	2.8	13
31	Morphological study of boar sperm during their passage through the female genital tract. <i>Journal of Reproduction and Development</i> , <b>2015</b> , 61, 407-13	2.1	15
30	Boar sperm with defective motility are discriminated in the backflow moments after insemination. <i>Theriogenology</i> , <b>2015</b> , 83, 655-61	2.8	8
29	β-fucosidase enhances capacitation-associated events in porcine spermatozoa. <i>Veterinary Journal</i> , <b>2015</b> , 203, 109-14	2.5	8
28	Timing of oviductal fluid collection, steroid concentrations, and sperm preservation method affect porcine in vitro fertilization efficiency. <i>Fertility and Sterility</i> , <b>2014</b> , 102, 1762-8.e1	4.8	26
27	Nitric oxide synthase (NOS) inhibition during porcine in vitro maturation modifies oocyte protein S-nitrosylation and in vitro fertilization. <i>PLoS ONE</i> , <b>2014</b> , 9, e115044	3.7	13
26	Equine spermatozoa stored in the epididymis for up to 96h at 4°C can be successfully cryopreserved and maintain their fertilization capacity. <i>Animal Reproduction Science</i> , <b>2013</b> , 136, 280-8	2.1	22
25	Boar sperm tyrosine phosphorylation patterns in the presence of oviductal epithelial cells: in vitro, ex vivo, and in vivo models. <i>Reproduction</i> , <b>2013</b> , 146, 315-24	3.8	21
24	How is plasminogen/plasmin system contributing to regulate sperm entry into the oocyte?. <i>Reproductive Sciences</i> , <b>2013</b> , 20, 1075-82	3	14
23	Reproductive performance and backflow study in cervical and post-cervical artificial insemination in sows. <i>Animal Reproduction Science</i> , <b>2012</b> , 136, 14-22	2.1	33
22	Effects of centrifugation through three different discontinuous Percoll gradients on boar sperm function. <i>Animal Reproduction Science</i> , <b>2011</b> , 127, 62-72	2.1	43
21	Production of transgenic piglets using ICSI-sperm-mediated gene transfer in combination with recombinase RecA. <i>Reproduction</i> , <b>2010</b> , 140, 259-72	3.8	42
20	Effects of porcine pre-ovulatory oviductal fluid on boar sperm function. <i>Theriogenology</i> , <b>2010</b> , 74, 632-42.e8		43
19	Sperm treatment affects capacitation parameters and penetration ability of ejaculated and epididymal boar spermatozoa. <i>Theriogenology</i> , <b>2010</b> , 74, 1327-40	2.8	50
18	Effects of oviductal fluid on the development, quality, and gene expression of porcine blastocysts produced in vitro. <i>Reproduction</i> , <b>2009</b> , 137, 679-87	3.8	55

17	Hardening of the zona pellucida of unfertilized eggs can reduce polyspermic fertilization in the pig and cow. <i>Reproduction</i> , <b>2008</b> , 135, 19-27	3.8	59
16	Oviduct-specific glycoprotein and heparin modulate sperm-zona pellucida interaction during fertilization and contribute to the control of polyspermy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 15809-14	11.5	158
15	Evaluation of a cushioned method for centrifugation and processing for freezing boar semen. <i>Theriogenology</i> , <b>2007</b> , 67, 1087-91	2.8	35
14	Influence of sperm pretreatment on the efficiency of intracytoplasmic sperm injection in pigs. <i>Journal of Andrology</i> , <b>2006</b> , 27, 268-75		21
13	Analysis of different factors influencing the intracytoplasmic sperm injection (ICSI) yield in pigs. <i>Theriogenology</i> , <b>2006</b> , 66, 1857-65	2.8	13
12	Cooling and freezing of boar spermatozoa: supplementation of the freezing media with reduced glutathione preserves sperm function. <i>Journal of Andrology</i> , <b>2005</b> , 26, 396-404		70
11	Supplementation of the thawing media with reduced glutathione improves function and the in vitro fertilizing ability of boar spermatozoa after cryopreservation. <i>Journal of Andrology</i> , <b>2005</b> , 26, 749-56		52
10	Birth of piglets after transferring of in vitro-produced embryos pre-matured with R-roscovitine. <i>Reproduction</i> , <b>2005</b> , 129, 747-55	3.8	42
9	Decrease in glutathione content in boar sperm after cryopreservation. Effect of the addition of reduced glutathione to the freezing and thawing extenders. <i>Theriogenology</i> , <b>2004</b> , 62, 690-701	2.8	168
8	Effect of sperm preparation method on in vitro fertilization in pigs. <i>Reproduction</i> , <b>2003</b> , 125, 133-41	3.8	39
7	Analysis of in vitro fertilizing capacity to evaluate the freezing procedures of boar semen and to predict the subsequent fertility. <i>Reproduction in Domestic Animals</i> , <b>2003</b> , 38, 66-72	1.6	42
6	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
5	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
4	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
3	In vitro fertilization of pig oocytes after different coincubation intervals. <i>Theriogenology</i> , <b>1993</b> , 39, 1201-88		30
2	Sperm concentration influences fertilization and male pronuclear formation in vitro in pigs. <i>Theriogenology</i> , <b>1993</b> , 40, 539-46	2.8	30
1	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