

## List of Publications by Citations

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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.

89 papers	2,684 citations	32 h-index	48 g-index
108 ext. papers	3,073 ext. citations	3.1 avg, IF	5.01 L-index

#	Paper	IF	Citations
89	Oviductal secretions: will they be key factors for the future ARTs?. <i>Molecular Human Reproduction</i> , <b>2010</b> , 16, 896-906	4.4	170
88	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
87	Roles of the oviduct in mammalian fertilization. <i>Reproduction</i> , <b>2012</b> , 144, 649-60	3.8	160
86	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
85	Susceptibility of bovine germinal vesicle-stage oocytes from antral follicles to direct effects of heat stress in vitro. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 1303-8	3.9	97
84	DNA methylation and gene expression changes derived from assisted reproductive technologies can be decreased by reproductive fluids. <i>ELife</i> , <b>2017</b> , 6,	8.9	80
83	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
82	Determination of glycosidase activity in porcine oviductal fluid at the different phases of the estrous cycle. <i>Reproduction</i> , <b>2008</b> , 136, 833-42	3.8	58
81	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
80	DNA Methylation in Embryo Development: Epigenetic Impact of ART (Assisted Reproductive Technologies). <i>BioEssays</i> , <b>2017</b> , 39, 1700106	4.1	53
79	Role of sialic acid in bovine sperm-zona pellucida binding. <i>Molecular Reproduction and Development</i> , <b>2007</b> , 74, 617-28	2.6	52
78	The oviduct: A key organ for the success of early reproductive events. <i>Animal Frontiers</i> , <b>2015</b> , 5, 25-31	5.5	51
77	In vitro production of pig embryos: a point of view. <i>Reproduction, Fertility and Development</i> , <b>2002</b> , 14, 275-86	1.8	51
76	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
75	What controls polyspermy in mammals, the oviduct or the oocyte?. <i>Biological Reviews</i> , <b>2010</b> , 85, 593-605	13.5	49
74	Intracytoplasmic sperm injection in livestock species: an update. <i>Reproduction in Domestic Animals</i> , <b>2009</b> , 44, 143-51	1.6	48
73	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

72	Effect of in vitro fertilization medium on the acrosome reaction, cortical reaction, zona pellucida hardening and in vitro development in pigs. <i>Reproduction</i> , <b>2002</b> , 124, 279-288	3.8	45
71	Effects of porcine pre-ovulatory oviductal fluid on boar sperm function. <i>Theriogenology</i> , <b>2010</b> , 74, 632-42.8		43
70	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
69	Effect of bovine oviductal fluid on development and quality of bovine embryos produced in vitro. <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 29, 621-629	1.8	41
68	In vitro fertilization in pigs: New molecules and protocols to consider in the forthcoming years. <i>Theriogenology</i> , <b>2016</b> , 85, 125-34	2.8	40
67	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
66	Effect of sperm preparation method on in vitro fertilization in pigs. <i>Reproduction</i> , <b>2003</b> , 125, 133-41	3.8	39
65	Identification of potential oviductal factors responsible for zona pellucida hardening and monospermy during fertilization in mammals. <i>Biology of Reproduction</i> , <b>2013</b> , 89, 67	3.9	37
64	Effect of the bovine oviductal fluid on in vitro fertilization, development and gene expression of in vitro-produced bovine blastocysts. <i>Reproduction in Domestic Animals</i> , <b>2013</b> , 48, 331-8	1.6	36
63	The oviduct: functional genomic and proteomic approach. <i>Reproduction in Domestic Animals</i> , <b>2012</b> , 47 Suppl 3, 22-9	1.6	35
62	The oviduct: from sperm selection to the epigenetic landscape of the embryo. <i>Biology of Reproduction</i> , <b>2018</b> , 98, 262-276	3.9	34
61	Sperm interactions from insemination to fertilization. <i>Reproduction in Domestic Animals</i> , <b>2008</b> , 43 Suppl 5, 2-11	1.6	34
60	Glycosidase determination in bovine oviductal fluid at the follicular and luteal phases of the oestrous cycle. <i>Reproduction, Fertility and Development</i> , <b>2008</b> , 20, 808-17	1.8	34
59	Oviductal Transcriptome Is Modified after Insemination during Spontaneous Ovulation in the Sow. <i>PLoS ONE</i> , <b>2015</b> , 10, e0130128	3.7	33
58	Maintenance of meiotic arrest in bovine oocytes using the S-enantiomer of roscovitine: effects on maturation, fertilization and subsequent embryo development in vitro. <i>Reproduction</i> , <b>2005</b> , 129, 19-26	3.8	33
57	Oocytes use the plasminogen-plasmin system to remove supernumerary spermatozoa. <i>Human Reproduction</i> , <b>2012</b> , 27, 1985-93	5.7	31
56	In vitro fertilization of pig oocytes after different coincubation intervals. <i>Theriogenology</i> , <b>1993</b> , 39, 1201-88		30
55	Sperm concentration influences fertilization and male pronuclear formation in vitro in pigs. <i>Theriogenology</i> , <b>1993</b> , 40, 539-46	2.8	30

54	The Common and Species-Specific Roles of Oviductal Proteins in Mammalian Fertilization and Embryo Development. <i>BioScience</i> , <b>2015</b> , 65, 973-984	5.7	28
53	Fertilization outcome could be regulated by binding of oviductal plasminogen to oocytes and by releasing of plasminogen activators during interplay between gametes. <i>Fertility and Sterility</i> , <b>2012</b> , 97, 453-61	4.8	28
52	Considerations of viscosity in the preliminaries to mammalian fertilisation. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2011</b> , 28, 191-7	3.4	28
51	Oviduct fluid extracellular vesicles regulate polyspermy during porcine in vitro fertilisation. <i>Reproduction, Fertility and Development</i> , <b>2020</b> , 32, 409-418	1.8	27
50	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
49	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
48	Pig in vitro fertilization: Where are we and where do we go?. <i>Theriogenology</i> , <b>2019</b> , 137, 113-121	2.8	23
47	Mimicking physiological O <sub>2</sub> tension in the female reproductive tract improves assisted reproduction outcomes in pig. <i>Molecular Human Reproduction</i> , <b>2018</b> , 24, 260-270	4.4	23
46	Maturation, fertilization and complete development of porcine oocytes matured under different systems. <i>Theriogenology</i> , <b>1999</b> , 51, 799-812	2.8	23
45	Effects of oviductal and cumulus cells on in vitro fertilization and embryo development of porcine oocytes fertilized with epididymal spermatozoa. <i>Theriogenology</i> , <b>2003</b> , 59, 975-86	2.8	22
44	Effect of co-culture of porcine sperm and oocytes with porcine oviductal epithelial cells on in vitro fertilization. <i>Animal Reproduction Science</i> , <b>2001</b> , 68, 85-98	2.1	22
43	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
42	The C-terminal region of OVGP1 remodels the zona pellucida and modifies fertility parameters. <i>Scientific Reports</i> , <b>2016</b> , 6, 32556	4.9	21
41	DNA methylation changes during preimplantation development reveal inter-species differences and reprogramming events at imprinted genes. <i>Clinical Epigenetics</i> , <b>2020</b> , 12, 64	7.7	19
40	The human is an exception to the evolutionarily-conserved phenomenon of pre-fertilization zona pellucida resistance to proteolysis induced by oviductal fluid. <i>Human Reproduction</i> , <b>2013</b> , 28, 718-28	5.7	17
39	Environment and medium volume influence in vitro fertilisation of pig oocytes. <i>Zygote</i> , <b>1993</b> , 1, 209-13	1.6	17
38	Supplementation of bovine follicular fluid during in vitro maturation increases oocyte cumulus expansion, blastocyst developmental kinetics, and blastocyst cell number. <i>Theriogenology</i> , <b>2019</b> , 126, 222-229	2.8	17
37	Differing sperm ability to penetrate the oocyte in vivo and in vitro as revealed using colloidal preparations. <i>Theriogenology</i> , <b>2009</b> , 72, 1171-9	2.8	16

36	Effects of men and recipients' age on the reproductive outcome of an oocyte donation program. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2008</b> , 25, 445-52	3.4	16
35	Maturation conditions and boar affect timing of cortical reaction in porcine oocytes. <i>Theriogenology</i> , <b>2012</b> , 78, 1126-39.e1	2.8	15
34	Differential gene expression in porcine oviduct during the oestrous cycle. <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 29, 2387-2399	1.8	14
33	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
32	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
31	Effect of oviductal and cumulus cells on zona pellucida and cortical granules of porcine oocytes fertilized in vitro with epididymal spermatozoa. <i>Animal Reproduction Science</i> , <b>2005</b> , 85, 287-300	2.1	13
30	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
29	Pre-fertilization zona pellucida hardening by different cross-linkers affects IVF in pigs and cattle and improves embryo production in pigs. <i>Reproduction</i> , <b>2009</b> , 137, 803-12	3.8	12
28	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
27	Effects of maturational stage, cumulus cells and coincubation of mature and immature cumulus-oocyte complexes on in vitro penetrability of porcine oocytes. <i>Theriogenology</i> , <b>2001</b> , 55, 1489-500	2.8	10
26	First steps in the development of a functional assay for human sperm using pig oocytes. <i>Journal of Andrology</i> , <b>2007</b> , 28, 273-81		9
25	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
24	α-L-fucosidase enhances capacitation-associated events in porcine spermatozoa. <i>Veterinary Journal</i> , <b>2015</b> , 203, 109-14	2.5	8
23	Which Low-Abundance Proteins are Present in the Human Milieu of Gamete/Embryo Maternal Interaction?. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	7
22	Effect of in vitro fertilization medium on the acrosome reaction, cortical reaction, zona pellucida hardening and in vitro development in pigs. <i>Reproduction</i> , <b>2002</b> , 124, 279-88	3.8	7
21	Calreticulin from subolemmal vesicles affects membrane regulation of polyspermy. <i>Reproduction</i> , <b>2014</b> , 147, 369-78	3.8	6
20	Reproductive Outcomes and Endocrine Profile in Artificially Inseminated versus Embryo Transferred Cows. <i>Animals</i> , <b>2020</b> , 10,	3.1	6
19	Mimicking the temperature gradient between the sow's oviduct and uterus improves in vitro embryo culture output. <i>Molecular Human Reproduction</i> , <b>2020</b> , 26, 748-759	4.4	5

18	Reproductive fluids, used for the in vitro production of pig embryos, result in healthy offspring and avoid aberrant placental expression of PEG3 and LUM. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 32	6	5
17	Author response: DNA methylation and gene expression changes derived from assisted reproductive technologies can be decreased by reproductive fluids <b>2017</b> ,		3
16	Total urokinase-type plasminogen activator (uPA) levels in seminal plasma are associated with positive assisted reproductive technology outcomes. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2018</b> , 35, 1091-1101	3.4	2
15	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
14	Cultured bovine embryo biopsy conserves methylation marks from original embryo. <i>Biology of Reproduction</i> , <b>2017</b> , 97, 189-196	3.9	2
13	The oviductal transcriptome is influenced by a local ovarian effect in the sow. <i>Journal of Ovarian Research</i> , <b>2016</b> , 9, 44	5.5	2
12	Reproductive technologies in swine <b>2020</b> , 67-79		1
11	Reproductive fluids, added to the culture media, contribute to minimizing phenotypical differences between in vitro-derived and artificial insemination-derived piglets.. <i>Journal of Developmental Origins of Health and Disease</i> , <b>2022</b> , 1-13	2.4	1
10	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
9	Year-Long Phenotypical Study of Calves Derived From Different Assisted-Reproduction Technologies.. <i>Frontiers in Veterinary Science</i> , <b>2021</b> , 8, 739041	3.1	1
8	Biological Modifications of Zona Pellucida Affecting Resistance to Proteases Digestion, Sperm Binding, and Monospermy Are Mediated by Oviduct-Specific Glycoprotein in Pig and Cow.. <i>Biology of Reproduction</i> , <b>2008</b> , 78, 211-212	3.9	1
7	Culture Medium and Sex Drive Epigenetic Reprogramming in Preimplantation Bovine Embryos. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
6	Tissue plasminogen activator (tPA) of paternal origin is necessary for the success of in vitro but not of in vivo fertilisation in the mouse. <i>Reproduction, Fertility and Development</i> , <b>2019</b> , 31, 433-442	1.8	1
5	Alcohol use and tobacco smoking in relation to ovarian response among egg donors. <i>Fertility and Sterility</i> , <b>2018</b> , 110, e174	4.8	1
4	Physicochemical and Functional Characterization of Female Reproductive Fluids: A Report of the First Two Infants Born Following Addition of Their Mother's Fluids to the Embryo Culture Media. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 710887	4.6	1
3	Addition of exogenous proteins detected in oviductal secretions to in vitro culture medium does not improve the efficiency of in vitro fertilization in pigs. <i>Theriogenology</i> , <b>2020</b> , 157, 490-497	2.8	0
2	The embryo culture media in the era of epigenetics: is it time to go back to nature?. <i>Animal Reproduction</i> , <b>2022</b> , 19, e20210132	1.7	0
1	Fallopian Tube/Oviduct <b>2018</b> , 276-281		

