Pilar Coy

List of Publications by Year in Descending Order

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	Reproductive fluids, added to the culture media, contribute to minimizing phenotypical differences between in vitro-derived and artificial insemination-derived piglets.. *Journal of Developmental Origins of Health and Disease*, **2022**, 1-13	2.4	1
88	The embryo culture media in the era of epigenetics: is it time to go back to nature?. *Animal Reproduction*, **2022**, 19, e20210132	1.7	0
87	Growth analysis and blood profile in piglets born by embryo transfer. *Research in Veterinary Science*, **2021**, 142, 43-53	2.5	1
86	Year-Long Phenotypical Study of Calves Derived From Different Assisted-Reproduction Technologies.. *Frontiers in Veterinary Science*, **2021**, 8, 739041	3.1	1
85	Culture Medium and Sex Drive Epigenetic Reprogramming in Preimplantation Bovine Embryos. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
84	Reproductive fluids, used for the in vitro production of pig embryos, result in healthy offspring and avoid aberrant placental expression of PEG3 and LUM. *Journal of Animal Science and Biotechnology*, **2021**, 12, 32	6	5
83	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. *Frontiers in Physiology*, **2021**, 12, 710887	4.6	1
82	DNA methylation changes during preimplantation development reveal inter-species differences and reprogramming events at imprinted genes. *Clinical Epigenetics*, **2020**, 12, 64	7.7	19
81	Reproductive technologies in swine **2020**, 67-79		1
80	Oviduct fluid extracellular vesicles regulate polyspermy during porcine in vitro fertilisation. *Reproduction, Fertility and Development*, **2020**, 32, 409-418	1.8	27
79	Addition of exogenous proteins detected in oviductal secretions to in vitro culture medium does not improve the efficiency of in vitro fertilization in pigs. *Theriogenology*, **2020**, 157, 490-497	2.8	0
78	Mimicking the temperature gradient between the sow\'s oviduct and uterus improves in vitro embryo culture output. *Molecular Human Reproduction*, **2020**, 26, 748-759	4.4	5
77	Reproductive Outcomes and Endocrine Profile in Artificially Inseminated versus Embryo Transferred Cows. *Animals*, **2020**, 10,	3.1	6
76	Pig in vitro fertilization: Where are we and where do we go?. *Theriogenology*, **2019**, 137, 113-121	2.8	23
75	Which Low-Abundance Proteins are Present in the Human Milieu of Gamete/Embryo Maternal Interaction?. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	7
74	Tissue plasminogen activator (tPA) of paternal origin is necessary for the success of in vitro but not of in vivo fertilisation in the mouse. *Reproduction, Fertility and Development*, **2019**, 31, 433-442	1.8	1
73	Supplementation of bovine follicular fluid during in vitro maturation increases oocyte cumulus expansion, blastocyst developmental kinetics, and blastocyst cell number. *Theriogenology*, **2019**, 126, 222-229	2.8	17

72	Mimicking physiological O2 tension in the female reproductive tract improves assisted reproduction outcomes in pig. *Molecular Human Reproduction*, **2018**, 24, 260-270	4.4	23
71	The oviduct: from sperm selection to the epigenetic landscape of the embryo. *Biology of Reproduction*, **2018**, 98, 262-276	3.9	34
70	Total urokinase-type plasminogen activator (uPA) levels in seminal plasma are associated with positive assisted reproductive technology outcomes. *Journal of Assisted Reproduction and Genetics*, **2018**, 35, 1091-1101	3.4	2
69	Fallopian Tube/Oviduct **2018**, 276-281		
68	Physiology learning for veterinary students: impact of guided practices on students\opinion and physiological parameters. *American Journal of Physiology - Advances in Physiology Education*, **2018**, 42, 215-224	1.9	2
67	Alcohol use and tobacco smoking in relation to ovarian response among egg donors. *Fertility and Sterility*, **2018**, 110, e174	4.8	1
66	Effect of bovine oviductal fluid on development and quality of bovine embryos produced in vitro. *Reproduction, Fertility and Development*, **2017**, 29, 621-629	1.8	41
65	Differential gene expression in porcine oviduct during the oestrous cycle. *Reproduction, Fertility and Development*, **2017**, 29, 2387-2399	1.8	14
64	DNA methylation and gene expression changes derived from assisted reproductive technologies can be decreased by reproductive fluids. *ELife*, **2017**, 6,	8.9	80
63	DNA Methylation in Embryo Development: Epigenetic Impact of ART (Assisted Reproductive Technologies). *BioEssays*, **2017**, 39, 1700106	4.1	53
62	Cultured bovine embryo biopsy conserves methylation marks from original embryo. *Biology of Reproduction*, **2017**, 97, 189-196	3.9	2
61	Author response: DNA methylation and gene expression changes derived from assisted reproductive technologies can be decreased by reproductive fluids **2017**,		3
60	In vitro fertilization in pigs: New molecules and protocols to consider in the forthcoming years. *Theriogenology*, **2016**, 85, 125-34	2.8	40
59	The oviductal transcriptome is influenced by a local ovarian effect in the sow. *Journal of Ovarian Research*, **2016**, 9, 44	5.5	2
58	The C-terminal region of OVGP1 remodels the zona pellucida and modifies fertility parameters. *Scientific Reports*, **2016**, 6, 32556	4.9	21
57	The Common and Species-Specific Roles of Oviductal Proteins in Mammalian Fertilization and Embryo Development. *BioScience*, **2015**, 65, 973-984	5.7	28
56	The oviduct: A key organ for the success of early reproductive events. *Animal Frontiers*, **2015**, 5, 25-31	5.5	51
55	Oviductal Transcriptome Is Modified after Insemination during Spontaneous Ovulation in the Sow. *PLoS ONE*, **2015**, 10, e0130128	3.7	33

54	L-fucosidase enhances capacitation-associated events in porcine spermatozoa. *Veterinary Journal*, **2015**, 203, 109-14	2.5	8
53	Timing of oviductal fluid collection, steroid concentrations, and sperm preservation method affect porcine in vitro fertilization efficiency. *Fertility and Sterility*, **2014**, 102, 1762-8.e1	4.8	26
52	Nitric oxide synthase (NOS) inhibition during porcine in vitro maturation modifies oocyte protein S-nitrosylation and in vitro fertilization. *PLoS ONE*, **2014**, 9, e115044	3.7	13
51	Calreticulin from suboolemmal vesicles affects membrane regulation of polyspermy. *Reproduction*, **2014**, 147, 369-78	3.8	6
50	Effect of the bovine oviductal fluid on in vitro fertilization, development and gene expression of in vitro-produced bovine blastocysts. *Reproduction in Domestic Animals*, **2013**, 48, 331-8	1.6	36
49	Identification of potential oviductal factors responsible for zona pellucida hardening and monospermy during fertilization in mammals. *Biology of Reproduction*, **2013**, 89, 67	3.9	37
48	How is plasminogen/plasmin system contributing to regulate sperm entry into the oocyte?. *Reproductive Sciences*, **2013**, 20, 1075-82	3	14
47	The human is an exception to the evolutionarily-conserved phenomenon of pre-fertilization zona pellucida resistance to proteolysis induced by oviductal fluid. *Human Reproduction*, **2013**, 28, 718-28	5.7	17
46	The oviduct: functional genomic and proteomic approach. *Reproduction in Domestic Animals*, **2012**, 47 Suppl 3, 22-9	1.6	35
45	Maturation conditions and boar affect timing of cortical reaction in porcine oocytes. *Theriogenology* , **2012**, 78, 1126-39.e1	2.8	15
44	Fertilization outcome could be regulated by binding of oviductal plasminogen to oocytes and by releasing of plasminogen activators during interplay between gametes. *Fertility and Sterility*, **2012**, 97, 453-61	4.8	28
43	Roles of the oviduct in mammalian fertilization. *Reproduction*, **2012**, 144, 649-60	3.8	160
42	Oocytes use the plasminogen-plasmin system to remove supernumerary spermatozoa. *Human Reproduction*, **2012**, 27, 1985-93	5.7	31
41	Considerations of viscosity in the preliminaries to mammalian fertilisation. *Journal of Assisted Reproduction and Genetics*, **2011**, 28, 191-7	3.4	28
40	Oviductal secretions: will they be key factors for the future ARTs?. *Molecular Human Reproduction*, **2010**, 16, 896-906	4.4	170
39	Effects of porcine pre-ovulatory oviductal fluid on boar sperm function. *Theriogenology*, **2010**, 74, 632-42	2.8	43
38	Sperm treatment affects capacitation parameters and penetration ability of ejaculated and epididymal boar spermatozoa. *Theriogenology*, **2010**, 74, 1327-40	2.8	50
37	What controls polyspermy in mammals, the oviduct or the oocyte?. *Biological Reviews*, **2010**, 85, 593-605	13.5	49

36	Effects of oviductal fluid on the development, quality, and gene expression of porcine blastocysts produced in vitro. *Reproduction*, **2009**, 137, 679-87	3.8	55
35	Pre-fertilization zona pellucida hardening by different cross-linkers affects IVF in pigs and cattle and improves embryo production in pigs. *Reproduction*, **2009**, 137, 803-12	3.8	12
34	Intracytoplasmic sperm injection in livestock species: an update. *Reproduction in Domestic Animals*, **2009**, 44, 143-51	1.6	48
33	Differing sperm ability to penetrate the oocyte in vivo and in vitro as revealed using colloidal preparations. *Theriogenology*, **2009**, 72, 1171-9	2.8	16
32	Sperm interactions from insemination to fertilization. *Reproduction in Domestic Animals*, **2008**, 43 Suppl 5, 2-11	1.6	34
31	Glycosidase determination in bovine oviducal fluid at the follicular and luteal phases of the oestrous cycle. *Reproduction, Fertility and Development*, **2008**, 20, 808-17	1.8	34
30	Hardening of the zona pellucida of unfertilized eggs can reduce polyspermic fertilization in the pig and cow. *Reproduction*, **2008**, 135, 19-27	3.8	59
29	Oviduct-specific glycoprotein and heparin modulate sperm-zona pellucida interaction during fertilization and contribute to the control of polyspermy. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 15809-14	11.5	158
28	Determination of glycosidase activity in porcine oviductal fluid at the different phases of the estrous cycle. *Reproduction*, **2008**, 136, 833-42	3.8	58
27	Effects of men and recipients\Vage on the reproductive outcome of an oocyte donation program. *Journal of Assisted Reproduction and Genetics*, **2008**, 25, 445-52	3.4	16
26	Biological Modifications of Zona Pellucida Affecting Resistance to Proteases Digestion, Sperm Binding, and Monospermy Are Mediated by Oviduct-Specific Glycoprotein in Pig and Cow.. *Biology of Reproduction*, **2008**, 78, 211-212	3.9	1
25	Role of sialic acid in bovine sperm-zona pellucida binding. *Molecular Reproduction and Development*, **2007**, 74, 617-28	2.6	52
24	First steps in the development of a functional assay for human sperm using pig oocytes. *Journal of Andrology*, **2007**, 28, 273-81		9
23	Influence of sperm pretreatment on the efficiency of intracytoplasmic sperm injection in pigs. *Journal of Andrology*, **2006**, 27, 268-75		21
22	Analysis of different factors influencing the intracytoplasmic sperm injection (ICSI) yield in pigs. *Theriogenology*, **2006**, 66, 1857-65	2.8	13
21	Effect of oviductal and cumulus cells on zona pellucida and cortical granules of porcine oocytes fertilized in vitro with epididymal spermatozoa. *Animal Reproduction Science*, **2005**, 85, 287-300	2.1	13
20	Birth of piglets after transferring of in vitro-produced embryos pre-matured with R-roscovitine. *Reproduction*, **2005**, 129, 747-55	3.8	42
19	Maintenance of meiotic arrest in bovine oocytes using the S-enantiomer of roscovitine: effects on maturation, fertilization and subsequent embryo development in vitro. *Reproduction*, **2005**, 129, 19-26	3.8	33

18	Susceptibility of bovine germinal vesicle-stage oocytes from antral follicles to direct effects of heat stress in vitro. *Biology of Reproduction*, **2004**, 71, 1303-8	3.9	97
17	Decrease in glutathione content in boar sperm after cryopreservation. Effect of the addition of reduced glutathione to the freezing and thawing extenders. *Theriogenology*, **2004**, 62, 690-701	2.8	168
16	Effect of sperm preparation method on in vitro fertilization in pigs. *Reproduction*, **2003**, 125, 133-41	3.8	39
15	Effects of oviductal and cumulus cells on in vitro fertilization and embryo development of porcine oocytes fertilized with epididymal spermatozoa. *Theriogenology*, **2003**, 59, 975-86	2.8	22
14	In vitro production of pig embryos: a point of view. *Reproduction, Fertility and Development*, **2002**, 14, 275-86	1.8	51
13	Effect of in vitrofertilization medium on the acrosome reaction, cortical reaction, zona pellucida hardening and in vitro development in pigs. *Reproduction*, **2002**, 124, 279-288	3.8	45
12	Effect of in vitrofertilization medium on the acrosome reaction, cortical reaction, zona pellucida hardening and in vitro development in pigs. *Reproduction*, **2002**, 124, 279-88	3.8	7
11	Effect of co-culture of porcine sperm and oocytes with porcine oviductal epithelial cells on in vitro fertilization. *Animal Reproduction Science*, **2001**, 68, 85-98	2.1	22
10	Effects of maturational stage, cumulus cells and coincubation of mature and immature cumulus-oocyte complexes on in vitro penetrability of porcine oocytes. *Theriogenology*, **2001**, 55, 1489-500	2.8	10
9	Maturation, fertilization and complete development of porcine oocytes matured under different systems. *Theriogenology*, **1999**, 51, 799-812	2.8	23
8	In vitro fertilization of pig oocytes after different coincubation intervals. *Theriogenology*, **1993**, 39, 1201-8	2.8	30
7	Sperm concentration influences fertilization and male pronuclear formation in vitro in pigs. *Theriogenology*, **1993**, 40, 539-46	2.8	30
6	Evaluation of boar spermatozoa penetrating capacity using pig oocytes at the germinal vesicle stage. *Theriogenology*, **1993**, 40, 547-57	2.8	47
5	Environment and medium volume influence in vitro fertilisation of pig oocytes. *Zygote*, **1993**, 1, 209-13	1.6	17
4	Acrosome reaction of boar spermatozoa in homologous in vitro fertilization. *Molecular Reproduction and Development*, **1993**, 36, 84-8	2.6	24
3	Characteristics and seasonal variations in the semen of Murciano-Granadina goats in the Mediterranean area. *Animal Reproduction Science*, **1992**, 29, 255-262	2.1	40
2	Use of triple stain technique for simultaneous assessment of vitality and acrosomal status in boar spermatozoa. *Theriogenology*, **1992**, 38, 843-52	2.8	12
1	Influence of season on testicle size and libido in male goats from the Mediterranean area. *Animal Science*, **1991**, 52, 317-321		9