Maria A Gil

List of Publications by Citations

73 papers	2,154 citations	29 h-index	44 g-index
80 ext. papers	2,437 ext. citations	3.4 avg, IF	4.15 L-index

#	Paper	IF	Citations
73	Interspecies Chimerism with Mammalian Pluripotent Stem Cells. *Cell*, **2017**, 168, 473-486.e15	56.2	289
72	Survival and fertility of boar spermatozoa after freeze-thawing in extender supplemented with butylated hydroxytoluene. *Journal of Andrology*, **2004**, 25, 397-405		101
71	The battle of the sexes starts in the oviduct: modulation of oviductal transcriptome by X and Y-bearing spermatozoa. *BMC Genomics*, **2014**, 15, 293	4.5	88
70	Advances in swine in vitro embryo production technologies. *Reproduction in Domestic Animals*, **2010** , 45 Suppl 2, 40-8	1.6	88
69	Survival and in vitro fertility of boar spermatozoa frozen in the presence of superoxide dismutase and/or catalase. *Journal of Andrology*, **2005**, 26, 15-24		71
68	Adjustments on the cryopreservation conditions reduce the incidence of boar ejaculates with poor sperm freezability. *Theriogenology*, **2007**, 67, 1436-45	2.8	65
67	Birth of piglets after deep intrauterine insemination with flow cytometrically sorted boar spermatozoa. *Theriogenology*, **2003**, 59, 1605-14	2.8	64
66	Early developing pig embryos mediate their own environment in the maternal tract. *PLoS ONE*, **2012**, 7, e33625	3.7	62
65	Successful nonsurgical deep uterine embryo transfer in pigs. *Theriogenology*, **2004**, 61, 137-46	2.8	56
64	Challenges in pig artificial insemination. *Reproduction in Domestic Animals*, **2006**, 41 Suppl 2, 43-53	1.6	54
63	Improving the efficiency of sperm technologies in pigs: the value of deep intrauterine insemination. *Theriogenology*, **2005**, 63, 536-47	2.8	48
62	Sex-sorting sperm by flow cytometry in pigs: issues and perspectives. *Theriogenology*, **2009**, 71, 80-8	2.8	41
61	Approaches towards efficient use of boar semen in the pig industry. *Reproduction in Domestic Animals*, **2011**, 46 Suppl 2, 79-83	1.6	40
60	Effect of the volume of medium and number of oocytes during in vitro fertilization on embryo development in pigs. *Theriogenology*, **2003**, 60, 767-76	2.8	40
59	Suitability and effectiveness of single layer centrifugation using Androcoll-P in the cryopreservation protocol for boar spermatozoa. *Animal Reproduction Science*, **2013**, 140, 173-9	2.1	38
58	Does multivariate analysis of post-thaw sperm characteristics accurately estimate in vitro fertility of boar individual ejaculates?. *Theriogenology*, **2005**, 64, 305-16	2.8	38
57	Dissecting the protective effect of the seminal plasma spermadhesin PSP-I/PSP-II on boar sperm functionality. *Journal of Andrology*, **2006**, 27, 434-43		37

56	Effect of short periods of sperm-oocyte coincubation during in vitro fertilization on embryo development in pigs. *Theriogenology*, **2004**, 62, 544-52	2.8	37
55	Factors affecting the success rate of porcine embryo vitrification by the Open Pulled Straw method. *Animal Reproduction Science*, **2008**, 108, 334-44	2.1	36
54	Improving the efficiency of insemination with sex-sorted spermatozoa. *Reproduction in Domestic Animals*, **2008**, 43 Suppl 4, 1-8	1.6	35
53	Nonsurgical deep uterine transfer of vitrified, in vivo-derived, porcine embryos is as effective as the default surgical approach. *Scientific Reports*, **2015**, 5, 10587	4.9	34
52	Heat-shock protein A8 restores sperm membrane integrity by increasing plasma membrane fluidity. *Reproduction*, **2014**, 147, 719-32	3.8	34
51	Treating boar sperm with cholesterol-loaded cyclodextrins widens the sperm osmotic tolerance limits and enhances the in vitro sperm fertilising ability. *Animal Reproduction Science*, **2011**, 129, 209-20	2.1	32
50	Boar semen variability and its effects on IVF efficiency. *Theriogenology*, **2008**, 70, 1260-8	2.8	32
49	Successful non-surgical deep uterine transfer of porcine morulae after 24 hour culture in a chemically defined medium. *PLoS ONE*, **2014**, 9, e104696	3.7	31
48	An update on reproductive technologies with potential short-term application in pig production. *Reproduction in Domestic Animals*, **2005**, 40, 300-9	1.6	31
47	Recent advances toward the practical application of embryo transfer in pigs. *Theriogenology*, **2016**, 85, 152-61	2.8	30
46	New developments in low-dose insemination technology. *Theriogenology*, **2008**, 70, 1216-24	2.8	30
45	Dead spermatozoa in raw semen samples impair in vitro fertilization outcomes of frozen-thawed spermatozoa. *Fertility and Sterility*, **2013**, 100, 875-81	4.8	29
44	Motility characteristics and fertilizing capacity of boar spermatozoa stained with Hoechst 33342. *Reproduction in Domestic Animals*, **2002**, 37, 369-74	1.6	29
43	Incidence of unilateral fertilizations after low dose deep intrauterine insemination in spontaneously ovulating sows under field conditions. *Reproduction in Domestic Animals*, **2006**, 41, 41-7	1.6	28
42	Adjustments in IVF system for individual boars: value of additives and time of sperm-oocyte co-incubation. *Theriogenology*, **2005**, 64, 1783-96	2.8	27
41	Does seminal plasma PSP-I/PSP-II spermadhesin modulate the ability of boar spermatozoa to penetrate homologous oocytes in vitro?. *Journal of Andrology*, **2004**, 25, 1004-12		27
40	Brief coincubation of gametes in porcine in vitro fertilization: role of sperm:oocyte ratio and post-coincubation medium. *Theriogenology*, **2007**, 67, 620-6	2.8	25
39	Influence of storage time on functional capacity of flow cytometrically sex-sorted boar spermatozoa. *Theriogenology*, **2005**, 64, 86-98	2.8	25

38	Influence of sperm:oocyte ratio during in vitro fertilization of in vitro matured cumulus-intact pig oocytes on fertilization parameters and embryo development. *Theriogenology*, **2004**, 61, 551-60	2.8	25
37	Influence of seminal plasma PSP-I/PSP-II spermadhesin on pig gamete interaction. *Zygote*, **2005**, 13, 11-6	1.6	23
36	Effective vitrification and warming of porcine embryos using a pH-stable, chemically defined medium. *Scientific Reports*, **2016**, 6, 33915	4.9	20
35	In vitro postwarming viability of vitrified porcine embryos: effect of cryostorage length. *Theriogenology*, **2010**, 74, 486-90	2.8	20
34	Low-dose insemination in pigs: problems and possibilities. *Reproduction in Domestic Animals*, **2008**, 43 Suppl 2, 347-54	1.6	18
33	Vitrification of in vitro cultured porcine two-to-four cell embryos. *Theriogenology*, **2007**, 68, 258-64	2.8	17
32	Effects of Hoechst 33342 staining and ultraviolet irradiation on mitochondrial distribution and DNA copy number in porcine oocytes and preimplantation embryos. *Molecular Reproduction and Development*, **2012**, 79, 651-63	2.6	16
31	Capability of frozen-thawed boar spermatozoa to sustain pre-implantational embryo development. *Animal Reproduction Science*, **2010**, 121, 145-51	2.1	16
30	Achievements and future perspectives of embryo transfer technology in pigs. *Reproduction in Domestic Animals*, **2019**, 54 Suppl 4, 4-13	1.6	15
29	The overlaying oil type influences in vitro embryo production: differences in composition and compound transfer into incubation medium between oils. *Scientific Reports*, **2017**, 7, 10505	4.9	15
28	An earlier uterine environment favors the in vivo development of fresh pig morulae and blastocysts transferred by a nonsurgical deep-uterine method. *Journal of Reproduction and Development*, **2014**, 60, 371-6	2.1	15
27	Pentoxifylline added to freezing or post-thaw extenders does not improve the survival or in vitro fertilising capacity of boar spermatozoa. *Reproduction*, **2010**, 139, 557-64	3.8	15
26	The use of mineral oil during in vitro maturation, fertilization, and embryo culture does not impair the developmental competence of pig oocytes. *Theriogenology*, **2015**, 83, 693-702	2.8	13
25	Successful laparoscopic insemination with a very low number of flow cytometrically sorted boar sperm in field conditions. *Theriogenology*, **2014**, 81, 315-20	2.8	13
24	Design, development, and application of a non-surgical deep uterine embryo transfer technique in pigs. *Animal Frontiers*, **2013**, 3, 40-47	5.5	13
23	Seminal Plasma Modifies the Transcriptional Pattern of the Endometrium and Advances Embryo Development in Pigs. *Frontiers in Veterinary Science*, **2019**, 6, 465	3.1	13
22	Effects of ultrashort gamete co-incubation time on porcine in vitro fertilization. *Animal Reproduction Science*, **2008**, 106, 393-401	2.1	12
21	Supplementation with exogenous coenzyme Q10 to media for in vitro maturation and embryo culture fails to promote the developmental competence of porcine embryos. *Reproduction in Domestic Animals*, **2019**, 54 Suppl 4, 72-77	1.6	11

20	The in vitro and in vivo developmental capacity of selected porcine monospermic zygotes. *Theriogenology*, **2013**, 79, 392-8	2.8	11
19	Effect of MEM vitamins and forskolin on embryo development and vitrification tolerance of in vitro-produced pig embryos. *Animal Reproduction Science*, **2013**, 136, 296-302	2.1	11
18	Developmental competence of porcine genome-edited zygotes. *Molecular Reproduction and Development*, **2017**, 84, 814-821	2.6	8
17	In vitro fertilization (IVF) in straws and a short gamete coincubation time improves the efficiency of porcine IVF. *Reproduction in Domestic Animals*, **2008**, 43, 747-52	1.6	8
16	The effect of glycerol concentrations on the post-thaw in vitro characteristics of cryopreserved sex-sorted boar spermatozoa. *Reproduction in Domestic Animals*, **2012**, 47, 965-74	1.6	7
15	Seminal Plasma Induces Overexpression of Genes Associated with Embryo Development and Implantation in Day-6 Porcine Blastocysts. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	6
14	Effects of Vitrification on the Blastocyst Gene Expression Profile in a Porcine Model. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
13	Effects of meiotic inhibitors and gonadotrophins on porcine oocytes in vitro maturation, fertilization and development. *Reproduction in Domestic Animals*, **2017**, 52, 873-880	1.6	5
12	Prevention of hatching of porcine morulae and blastocysts by liquid storage at 20 ℃. *Scientific Reports*, **2019**, 9, 6219	4.9	5
11	Pre-pubertal di(2-ethylhexyl) phthalate (DEHP) exposure of young boars did not affect sperm in vitro penetration capacity of homologous oocytes post-puberty. *Archives of Andrology*, **2007**, 53, 141-7		5
10	Boar seminal plasma: current insights on its potential role for assisted reproductive technologies in swine. *Animal Reproduction*, **2020**, 17, e20200022	1.7	4
9	Eventual re-vitrification or storage in liquid nitrogen vapor does not jeopardize the practical handling and transport of vitrified pig embryos. *Theriogenology*, **2018**, 113, 229-236	2.8	3
8	Exposure of in vitro-matured porcine oocytes to SYBR-14 and fluorescence impairs their developmental capacity. *Animal Reproduction Science*, **2012**, 133, 101-8	2.1	2
7	Blastocyst-Bearing Sows Display a Dominant Anti-Inflammatory Cytokine Profile Compared to Cyclic Sows at Day 6 of the Cycle. *Animals*, **2020**, 10,	3.1	2
6	Importance of oil overlay for production of porcine embryos in vitro. *Reproduction in Domestic Animals*, **2018**, 53, 281-286	1.6	2
5	The cytokine platelet factor 4 successfully replaces bovine serum albumin for the in vitro culture of porcine embryos. *Theriogenology*, **2020**, 148, 201-207	2.8	1
4	Allogeneic Embryos Disregulate Leukemia Inhibitory Factor (LIF) and Its Receptor in the Porcine Endometrium During Implantation. *Frontiers in Veterinary Science*, **2020**, 7, 611598	3.1	1
3	Intrauterine Infusion of TGF-β Prior to Insemination, Alike Seminal Plasma, Influences Endometrial Cytokine Responses but Does Not Impact the Timing of the Progression of Pre-Implantation Pig Embryo Development. *Biology*, **2021**, 10,	4.9	1

2	Vitrification Effects on the Transcriptome of -Derived Porcine Morulae. *Frontiers in Veterinary Science*, **2021**, 8, 771996	3.1	0
1	A Short-Term Altrenogest Treatment Post-weaning Followed by Superovulation Reduces Pregnancy Rates and Embryo Production Efficiency in Multiparous Sows. *Frontiers in Veterinary Science*, **2021**, 8, 771573	3.1	0