Isabel Barranco

List of Publications by Citations

52 papers	733 citations	16 h-index	25 g-index
58 ext. papers	977 ext. citations	4.4 avg, IF	4.25 L-index

#	Paper	IF	Citations
52	Characterization of the porcine seminal plasma proteome comparing ejaculate portions. *Journal of Proteomics*, **2016**, 142, 15-23	3.9	60
51	High total antioxidant capacity of the porcine seminal plasma (SP-TAC) relates to sperm survival and fertility. *Scientific Reports*, **2015**, 5, 18538	4.9	41
50	Boar sperm cryosurvival is better after exposure to seminal plasma from selected fractions than to those from entire ejaculate. *Cryobiology*, **2014**, 69, 203-10	2.7	40
49	Improvement of boar sperm cryosurvival by using single-layer colloid centrifugation prior freezing. *Theriogenology*, **2012**, 78, 1117-25	2.8	39
48	Seminal plasma antioxidants are directly involved in boar sperm cryotolerance. *Theriogenology*, **2018**, 107, 27-35	2.8	38
47	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
46	New In-Depth Analytical Approach of the Porcine Seminal Plasma Proteome Reveals Potential Fertility Biomarkers. *Journal of Proteome Research*, **2018**, 17, 1065-1076	5.6	37
45	Extracellular vesicles isolated from porcine seminal plasma exhibit different tetraspanin expression profiles. *Scientific Reports*, **2019**, 9, 11584	4.9	31
44	The activity of paraoxonase type 1 (PON-1) in boar seminal plasma and its relationship with sperm quality, functionality, and in vivo fertility. *Andrology*, **2015**, 3, 315-20	4.2	28
43	The Proteome of Pig Spermatozoa Is Remodeled During Ejaculation. *Molecular and Cellular Proteomics*, **2019**, 18, 41-50	7.6	26
42	The Seminal Plasma of the Boar is Rich in Cytokines, with Significant Individual and Intra-Ejaculate Variation. *American Journal of Reproductive Immunology*, **2015**, 74, 523-32	3.8	25
41	Glutathione Peroxidase 5 Is Expressed by the Entire Pig Male Genital Tract and Once in the Seminal Plasma Contributes to Sperm Survival and In Vivo Fertility. *PLoS ONE*, **2016**, 11, e0162958	3.7	25
40	Season of ejaculate collection influences the freezability of boar spermatozoa. *Cryobiology*, **2013**, 67, 299-304	2.7	23
39	Potential of seminal plasma to improve the fertility of frozen-thawed boar spermatozoa. *Theriogenology*, **2019**, 137, 36-42	2.8	20
38	Boar semen proteomics and sperm preservation. *Theriogenology*, **2019**, 137, 23-29	2.8	20
37	Cryopreservation Differentially Alters the Proteome of Epididymal and Ejaculated Pig Spermatozoa. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	18
36	Is boar sperm freezability more intrinsically linked to spermatozoa than to the surrounding seminal plasma?. *Animal Reproduction Science*, **2018**, 195, 30-37	2.1	16

35	Seminal Plasma Cytokines Are Predictive of the Outcome of Boar Sperm Preservation. *Frontiers in Veterinary Science*, **2019**, 6, 436	3.1	16
34	Measurement of activity and concentration of paraoxonase 1 (PON-1) in seminal plasma and identification of PON-2 in the sperm of boar ejaculates. *Molecular Reproduction and Development*, **2015**, 82, 58-65	2.6	15
33	Levels of activity of superoxide dismutase in seminal plasma do not predict fertility of pig AI-semen doses. *Theriogenology*, **2019**, 140, 18-24	2.8	13
32	GSTM3, but not IZUMO1, is a cryotolerance marker of boar sperm. *Journal of Animal Science and Biotechnology*, **2019**, 10, 61	6	13
31	Aquaglyceroporins but not orthodox aquaporins are involved in the cryotolerance of pig spermatozoa. *Journal of Animal Science and Biotechnology*, **2019**, 10, 77	6	13
30	The Transcriptome of Pig Spermatozoa, and Its Role in Fertility. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	12
29	The triple role of glutathione S-transferases in mammalian male fertility. *Cellular and Molecular Life Sciences*, **2020**, 77, 2331-2342	10.3	12
28	Total and specific activities of superoxide dismutase (SOD) in seminal plasma are related with the cryotolerance of jackass spermatozoa. *Cryobiology*, **2020**, 92, 109-116	2.7	12
27	The proteome of frozen-thawed pig spermatozoa is dependent on the ejaculate fraction source. *Scientific Reports*, **2019**, 9, 705	4.9	10
26	Glutathione S-Transferases Play a Crucial Role in Mitochondrial Function, Plasma Membrane Stability and Oxidative Regulation of Mammalian Sperm. *Antioxidants*, **2020**, 9,	7.1	9
25	Sperm Methylome Profiling Can Discern Fertility Levels in the Porcine Biomedical Model. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	8
24	Active paraoxonase 1 is synthesised throughout the internal boar genital organs. *Reproduction*, **2017**, 154, 237-243	3.8	7
23	Proteomics in fresh and preserved pig semen: Recent achievements and future challenges. *Theriogenology*, **2020**, 150, 41-47	2.8	7
22	Seminal Plasma Modulates miRNA Expression by Sow Genital Tract Lining Explants. *Biomolecules*, **2020**, 10,	5.9	6
21	Seminal Plasma Anti-M□lerian Hormone: A Potential AI-Boar Fertility Biomarker?. *Biology*, **2020**, 9,	4.9	6
20	Extensive dataset of boar seminal plasma proteome displaying putative reproductive functions of identified proteins. *Data in Brief*, **2016**, 8, 1370-3	1.2	6
19	Effect of AQP Inhibition on Boar Sperm Cryotolerance Depends on the Intrinsic Freezability of the Ejaculate. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	6
18	Exploring Seminal Plasma GSTM3 as a Quality and In Vivo Fertility Biomarker in Pigs-Relationship with Sperm Morphology. *Antioxidants*, **2020**, 9,	7.1	5

17	Extracellular vesicles in seminal fluid and effects on male reproduction. An overview in farm animals and pets. *Animal Reproduction Science*, **2021**, 106853	2.1	5
16	H Nuclear Magnetic Resonance of Pig Seminal Plasma Reveals Intra-Ejaculate Variation in Metabolites. *Biomolecules*, **2020**, 10,	5.9	4
15	Granulocyte-macrophage colony stimulating factor (GM-CSF) is fully expressed in the genital tract, seminal plasma and spermatozoa of male pigs. *Scientific Reports*, **2020**, 10, 13360	4.9	4
14	Metabolite Profiling of Pig Seminal Plasma Identifies Potential Biomarkers for Sperm Resilience to Liquid Preservation. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 669974	5.7	3
13	Period of Boar Ejaculate Collection Contributes to the Yearly Intra-Male Variability of Seminal Plasma Cytokines. *Biology*, **2020**, 9,	4.9	2
12	Measurable Cytokine Concentrations in Pig Seminal Plasma Are Modified by Semen Handling and Storage. *Biology*, **2020**, 9,	4.9	2
11	Aldose Reductase B1 in Pig Seminal Plasma: Identification, Localization in Reproductive Tissues, and Relationship With Quality and Sperm Preservation. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 683199	5.7	2
10	Measurement of Oxidative Stress Index in Seminal Plasma Can Predict In Vivo Fertility of Liquid-Stored Porcine Artificial Insemination Semen Doses. *Antioxidants*, **2021**, 10,	7.1	2
9	Aquaporins Are Essential to Maintain Motility and Membrane Lipid Architecture During Mammalian Sperm Capacitation. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 656438	5.7	2
8	Impact of Seminal Plasma Antioxidants on Donkey Sperm Cryotolerance.. *Antioxidants*, **2022**, 11,	7.1	2
7	Deactivation of the JNK Pathway by GSTP1 Is Essential to Maintain Sperm Functionality. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 627140	5.7	1
6	Role of exogenous antioxidants on the performance and function of pig sperm after preservation in liquid and frozen states: A systematic review. *Theriogenology*, **2021**, 173, 279-294	2.8	1
5	Metabolomic fingerprinting of pig seminal plasma identifies in vivo fertility biomarkers. *Journal of Animal Science and Biotechnology*, **2021**, 12, 113	6	0
4	Delays in processing and storage of pig seminal plasma alters levels of contained antioxidants. *Research in Veterinary Science*, **2021**, 135, 416-423	2.5	0
3	Oxytocin in pig seminal plasma is positively related with in vivo fertility of inseminated sows. *Journal of Animal Science and Biotechnology*, **2021**, 12, 101	6	0
2	Sperm DNA damage compromises embryo development, but not oocyte fertilisation in pigs.. *Biological Research*, **2022**, 55, 15	7.6	0
1	Aldose Reductase B1 in Pig Sperm Is Related to Their Function and Fertilizing Ability.. *Frontiers in Endocrinology*, **2022**, 13, 773249	5.7	