

Isabel Barranco

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,140
citations

361413

20
h-index

434195

31
g-index

58
all docs

58
docs citations

58
times ranked

828
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the porcine seminal plasma proteome comparing ejaculate portions. <i>Journal of Proteomics</i> , 2016, 142, 15-23.	2.4	74
2	Extracellular vesicles isolated from porcine seminal plasma exhibit different tetraspanin expression profiles. <i>Scientific Reports</i> , 2019, 9, 11584.	3.3	59
3	High total antioxidant capacity of the porcine seminal plasma (SP-TAC) relates to sperm survival and fertility. <i>Scientific Reports</i> , 2015, 5, 18538.	3.3	56
4	Seminal plasma antioxidants are directly involved in boar sperm cryotolerance. <i>Theriogenology</i> , 2018, 107, 27-35.	2.1	54
5	New In-Depth Analytical Approach of the Porcine Seminal Plasma Proteome Reveals Potential Fertility Biomarkers. <i>Journal of Proteome Research</i> , 2018, 17, 1065-1076.	3.7	50
6	Boar sperm cryosurvival is better after exposure to seminal plasma from selected fractions than to those from entire ejaculate. <i>Cryobiology</i> , 2014, 69, 203-210.	0.7	49
7	Improvement of boar sperm cryosurvival by using single-layer colloid centrifugation prior freezing. <i>Theriogenology</i> , 2012, 78, 1117-1125.	2.1	46
8	Suitability and effectiveness of single layer centrifugation using Androcoll-P in the cryopreservation protocol for boar spermatozoa. <i>Animal Reproduction Science</i> , 2013, 140, 173-179.	1.5	44
9	The Proteome of Pig Spermatozoa Is Remodeled During Ejaculation. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 41-50.	3.8	40
10	Boar semen proteomics and sperm preservation. <i>Theriogenology</i> , 2019, 137, 23-29.	2.1	35
11	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. <i>PLoS ONE</i> , 2016, 11, e0162958.	2.5	35
12	The activity of paraoxonase type 1 (PON1) in boar seminal plasma and its relationship with sperm quality, functionality, and in vivo fertility. <i>Andrology</i> , 2015, 3, 315-320.	3.5	33
13	The Transcriptome of Pig Spermatozoa, and Its Role in Fertility. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1572.	4.1	31
14	Season of ejaculate collection influences the freezability of boar spermatozoa. <i>Cryobiology</i> , 2013, 67, 299-304.	0.7	30
15	GSTM3, but not IZUMO1, is a cryotolerance marker of boar sperm. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 61.	5.3	30
16	The Seminal Plasma of the Boar is Rich in Cytokines, with Significant Individual and Intra-Ejaculate Variation. <i>American Journal of Reproductive Immunology</i> , 2015, 74, 523-532.	1.2	29
17	Cryopreservation Differentially Alters the Proteome of Epididymal and Ejaculated Pig Spermatozoa. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1791.	4.1	29
18	The triple role of glutathione S-transferases in mammalian male fertility. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 2331-2342.	5.4	27

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19	Potential of seminal plasma to improve the fertility of frozen-thawed boar spermatozoa. <i>Theriogenology</i> , 2019, 137, 36-42.	2.1	26
20	Measurement of activity and concentration of paraoxonase 1 (PON1) in seminal plasma and identification of PON1 in the sperm of boar ejaculates. <i>Molecular Reproduction and Development</i> , 2015, 82, 58-65.	2.0	20
21	Aquaglyceroporins but not orthodox aquaporins are involved in the cryotolerance of pig spermatozoa. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 77.	5.3	20
22	Seminal Plasma Cytokines Are Predictive of the Outcome of Boar Sperm Preservation. <i>Frontiers in Veterinary Science</i> , 2019, 6, 436.	2.2	20
23	Total and specific activities of superoxide dismutase (SOD) in seminal plasma are related with the cryotolerance of jackass spermatozoa. <i>Cryobiology</i> , 2020, 92, 109-116.	0.7	20
24	Extracellular vesicles in seminal fluid and effects on male reproduction. An overview in farm animals and pets. <i>Animal Reproduction Science</i> , 2022, 246, 106853.	1.5	20
25	Is boar sperm freezability more intrinsically linked to spermatozoa than to the surrounding seminal plasma?. <i>Animal Reproduction Science</i> , 2018, 195, 30-37.	1.5	19
26	Glutathione S-Transferases Play a Crucial Role in Mitochondrial Function, Plasma Membrane Stability and Oxidative Regulation of Mammalian Sperm. <i>Antioxidants</i> , 2020, 9, 100.	5.1	19
27	Levels of activity of superoxide dismutase in seminal plasma do not predict fertility of pig AI-semen doses. <i>Theriogenology</i> , 2019, 140, 18-24.	2.1	17
28	Proteomics in fresh and preserved pig semen: Recent achievements and future challenges. <i>Theriogenology</i> , 2020, 150, 41-47.	2.1	16
29	The proteome of frozen-thawed pig spermatozoa is dependent on the ejaculate fraction source. <i>Scientific Reports</i> , 2019, 9, 705.	3.3	15
30	Sperm Methylome Profiling Can Discern Fertility Levels in the Porcine Biomedical Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2679.	4.1	15
31	Seminal Plasma Modulates miRNA Expression by Sow Genital Tract Lining Explants. <i>Biomolecules</i> , 2020, 10, 933.	4.0	12
32	Measurement of Oxidative Stress Index in Seminal Plasma Can Predict In Vivo Fertility of Liquid-Stored Porcine Artificial Insemination Semen Doses. <i>Antioxidants</i> , 2021, 10, 1203.	5.1	12
33	Sperm DNA damage compromises embryo development, but not oocyte fertilisation in pigs. <i>Biological Research</i> , 2022, 55, 15.	3.4	12
34	Seminal Plasma Anti-Müllerian Hormone: A Potential AI-Boar Fertility Biomarker?. <i>Biology</i> , 2020, 9, 78.	2.8	11
35	Effect of AQP Inhibition on Boar Sperm Cryotolerance Depends on the Intrinsic Freezability of the Ejaculate. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6255.	4.1	10
36	Active paraoxonase 1 is synthesised throughout the internal boar genital organs. <i>Reproduction</i> , 2017, 154, 237-243.	2.6	9

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37	Exploring Seminal Plasma GSTM3 as a Quality and In Vivo Fertility Biomarker in Pigs Relationship with Sperm Morphology. <i>Antioxidants</i> , 2020, 9, 741.	5.1	9
38	¹ H Nuclear Magnetic Resonance of Pig Seminal Plasma Reveals Intra-Ejaculate Variation in Metabolites. <i>Biomolecules</i> , 2020, 10, 906.	4.0	9
39	Metabolite Profiling of Pig Seminal Plasma Identifies Potential Biomarkers for Sperm Resilience to Liquid Preservation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 669974.	3.7	9
40	Extensive dataset of boar seminal plasma proteome displaying putative reproductive functions of identified proteins. <i>Data in Brief</i> , 2016, 8, 1370-1373.	1.0	8
41	Role of exogenous antioxidants on the performance and function of pig sperm after preservation in liquid and frozen states: A systematic review. <i>Theriogenology</i> , 2021, 173, 279-294.	2.1	8
42	Granulocyte-macrophage colony stimulating factor (GM-CSF) is fully expressed in the genital tract, seminal plasma and spermatozoa of male pigs. <i>Scientific Reports</i> , 2020, 10, 13360.	3.3	7
43	Metabolomic fingerprinting of pig seminal plasma identifies in vivo fertility biomarkers. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 113.	5.3	7
44	Impact of Seminal Plasma Antioxidants on Donkey Sperm Cryotolerance. <i>Antioxidants</i> , 2022, 11, 417.	5.1	7
45	Deactivation of the JNK Pathway by GSTP1 Is Essential to Maintain Sperm Functionality. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 627140.	3.7	6
46	Seminal Plasma Antioxidants Are Related to Sperm Cryotolerance in the Horse. <i>Antioxidants</i> , 2022, 11, 1279.	5.1	6
47	Aquaporins Are Essential to Maintain Motility and Membrane Lipid Architecture During Mammalian Sperm Capacitation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 656438.	3.7	5
48	Measurable Cytokine Concentrations in Pig Seminal Plasma Are Modified by Semen Handling and Storage. <i>Biology</i> , 2020, 9, 276.	2.8	3
49	Aldose Reductase B1 in Pig Seminal Plasma: Identification, Localization in Reproductive Tissues, and Relationship With Quality and Sperm Preservation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 683199.	3.7	3
50	Period of Boar Ejaculate Collection Contributes to the Yearly Intra-Male Variability of Seminal Plasma Cytokines. <i>Biology</i> , 2020, 9, 105.	2.8	3
51	The melatonin concentration in boar seminal plasma: A predictive in vivo fertility marker?. <i>Animal Reproduction Science</i> , 2016, 169, 131.	1.5	2
52	Delays in processing and storage of pig seminal plasma alters levels of contained antioxidants. <i>Research in Veterinary Science</i> , 2021, 135, 416-423.	1.9	2
53	Oxytocin in pig seminal plasma is positively related with in vivo fertility of inseminated sows. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 101.	5.3	2
54	Immunohistochemical localization of paraoxonase type 1 in the boar genital tract. <i>Animal Reproduction Science</i> , 2016, 169, 117.	1.5	0

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55	Relative GSTM3-abundance in fresh boar sperm is related to their cryotolerance. <i>Theriogenology</i> , 2019, 137, 127.	2.1	0
56	Editorial: Molecular Biomarkers in Animal Reproduction. <i>Frontiers in Veterinary Science</i> , 2021, 8, 802187.	2.2	0
57	Aldose Reductase B1 in Pig Sperm Is Related to Their Function and Fertilizing Ability. <i>Frontiers in Endocrinology</i> , 2022, 13, 773249.	3.5	0