

# Teresa Muio-Blanco

## List of Publications by Year in Descending Order

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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.

90  
papers

2,459  
citations

31  
h-index

45  
g-index

93  
ext. papers

2,752  
ext. citations

2.8  
avg, IF

4.56  
L-index

#	Paper	IF	Citations
90	Influence of Non-conventional Sperm Quality Parameters on Field Fertility in Ovine. <i>Frontiers in Veterinary Science</i> , <b>2021</b> , 8, 650572	3.1	2
89	Involvement of progesterone and estrogen receptors in the ram sperm acrosome reaction. <i>Domestic Animal Endocrinology</i> , <b>2021</b> , 74, 106527	2.3	0
88	Vasectomy and Photoperiodic Regimen Modify the Protein Profile, Hormonal Content and Antioxidant Enzymes Activity of Ram Seminal Plasma. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	4
87	Melatonin membrane receptors MT and MT are expressed in ram spermatozoa from non-seasonal breeds. <i>Tropical Animal Health and Production</i> , <b>2020</b> , 52, 2549-2557	1.7	1
86	Does Melatonin Exert Its Effect on Ram Sperm Capacitation Through Nitric Oxide Synthase Regulation?. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	2
85	Underlying molecular mechanism in the modulation of the ram sperm acrosome reaction by progesterone and 17 $\beta$ -estradiol. <i>Animal Reproduction Science</i> , <b>2020</b> , 221, 106567	2.1	2
84	OpenCASA: A new open-source and scalable tool for sperm quality analysis. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006691	5	21
83	Presence of melatonin-catabolizing non-specific enzymes myeloperoxidase and indoleamine 2,3-dioxygenase in the ram reproductive tract. <i>Reproduction in Domestic Animals</i> , <b>2019</b> , 54, 1643-1650	1.6	2
82	Changes in melatonin concentrations in seminal plasma are not correlated with testosterone or antioxidant enzyme activity when rams are located in areas with an equatorial photoperiod. <i>Animal Reproduction Science</i> , <b>2019</b> , 200, 22-30	2.1	5
81	Melatonin reduces cAMP-stimulated capacitation of ram spermatozoa. <i>Reproduction, Fertility and Development</i> , <b>2019</b> , 31, 420-431	1.8	18
80	Role of melatonin on embryo viability in sheep. <i>Reproduction, Fertility and Development</i> , <b>2018</b> , 31, 82-92	1.8	10
79	Sperm quality and seminal plasma proteins in three sheep breeds under high altitude and tropical conditions. <i>Spanish Journal of Agricultural Research</i> , <b>2018</b> , 16, e0403	1.1	7
78	Melatonin affects the motility and adhesiveness of in vitro capacitated boar spermatozoa via a mechanism that does not depend on intracellular ROS levels. <i>Andrology</i> , <b>2018</b> , 6, 720-736	4.2	10
77	Effect of seminal plasma proteins on the motile sperm subpopulations in ram ejaculates. <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 29, 394-405	1.8	24
76	c-Jun N-terminal kinase and p38 mitogen-activated protein kinase pathways link capacitation with apoptosis and seminal plasma proteins protect sperm by interfering with both routes. <i>Biology of Reproduction</i> , <b>2017</b> , 96, 800-815	3.9	13
75	Steroid hormone receptors and direct effects of steroid hormones on ram spermatozoa. <i>Reproduction</i> , <b>2017</b> , 154, 469-481	3.8	13
74	Profile and reproductive roles of seminal plasma melatonin of boar ejaculates used in artificial insemination programs. <i>Journal of Animal Science</i> , <b>2017</b> , 95, 1660-1668	0.7	6

73	Melatonin MT <sub>1</sub> and MT <sub>2</sub> Receptors in the Ram Reproductive Tract. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	19
72	Melatonin receptors MT <sub>1</sub> and MT <sub>2</sub> are expressed in spermatozoa from several seasonal and nonseasonal breeder species. <i>Theriogenology</i> , <b>2016</b> , 86, 1958-68	2.8	26
71	New evidence of melatonin receptor contribution to ram sperm functionality. <i>Reproduction, Fertility and Development</i> , <b>2016</b> , 28, 924-935	1.8	15
70	Induced lipid peroxidation in ram sperm: semen profile, DNA fragmentation and antioxidant status. <i>Reproduction</i> , <b>2016</b> , 151, 379-90	3.8	34
69	Evaluation of Lasting Effects of Heat Stress on Sperm Profile and Oxidative Status of Ram Semen and Epididymal Sperm. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 1687657	6.7	39
68	Expression, cellular localization, and involvement of the pentose phosphate pathway enzymes in the regulation of ram sperm capacitation. <i>Theriogenology</i> , <b>2016</b> , 86, 704-14	2.8	11
67	Evidence of melatonin synthesis in the ram reproductive tract. <i>Andrology</i> , <b>2016</b> , 4, 163-71	4.2	50
66	Ram seminal plasma proteins contribute to sperm capacitation and modulate sperm-zona pellucida interaction. <i>Theriogenology</i> , <b>2015</b> , 83, 670-8	2.8	14
65	Intracellular calcium movements of boar spermatozoa during <i>In Vitro</i> Capacitation and subsequent acrosome exocytosis follow a multiple-storage place, extracellular calcium-dependent model. <i>Andrology</i> , <b>2015</b> , 3, 729-47	4.2	40
64	Cleaved PARP-1, an Apoptotic Marker, can be Detected in Ram Spermatozoa. <i>Reproduction in Domestic Animals</i> , <b>2015</b> , 50, 688-91	1.6	14
63	New Insights into the Phylogeny and Gene Context Analysis of Binder of Sperm Proteins (BSPs). <i>PLoS ONE</i> , <b>2015</b> , 10, e0137008	3.7	6
62	Oligomycin A-induced inhibition of mitochondrial ATP-synthase activity suppresses boar sperm motility and <i>in vitro</i> capacitation achievement without modifying overall sperm energy levels. <i>Reproduction, Fertility and Development</i> , <b>2014</b> , 26, 883-97	1.8	36
61	Melatonin in sperm biology: breaking paradigms. <i>Reproduction in Domestic Animals</i> , <b>2014</b> , 49 Suppl 4, 11-21	1.6	20
60	Function of ram spermatozoa frozen in diluents supplemented with casein and vegetable oils. <i>Animal Reproduction Science</i> , <b>2013</b> , 138, 213-9	2.1	11
59	The effect of exogenous melatonin during the non-reproductive season on the seminal plasma hormonal profile and the antioxidant defence system of Rasa Aragonesa rams. <i>Animal Reproduction Science</i> , <b>2013</b> , 138, 168-74	2.1	31
58	Characterization of the cDNA and <i>in vitro</i> expression of the ram seminal plasma protein RSVP14. <i>Gene</i> , <b>2013</b> , 519, 271-8	3.8	7
57	New insights into the mechanisms of ram sperm protection by seminal plasma proteins. <i>Biology of Reproduction</i> , <b>2013</b> , 88, 149	3.9	27
56	Quality characteristics and fertilizing ability of ram sperm subpopulations separated by partition in an aqueous two-phase system. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2012</b> , 880, 74-81	3.2	7

55	Soy lecithin interferes with mitochondrial function in frozen-thawed ram spermatozoa. <i>Journal of Andrology</i> , <b>2012</b> , 33, 717-25		35
54	A novel epidermal growth factor-dependent extracellular signal-regulated MAP kinase cascade involved in sperm functionality in sheep. <i>Biology of Reproduction</i> , <b>2012</b> , 87, 93	3.9	15
53	Centrifugal countercurrent chromatography to elucidate surface differences of adipose tissue-derived stem cells. <i>Journal of Separation Science</i> , <b>2012</b> , 35, 1388-98	3.4	
52	Identification and immunolocalisation of melatonin MT(1) and MT(2) receptors in Rasa Aragonesa ram spermatozoa. <i>Reproduction, Fertility and Development</i> , <b>2012</b> , 24, 953-61	1.8	36
51	Use of laparoscopic intrauterine insemination associated with a simplified superovulation treatment for in vivo embryo production in sheep: a preliminary report. <i>Animal Production Science</i> , <b>2012</b> , 52, 1111	1.4	2
50	Repeated superovulation using a simplified FSH/eCG treatment for in vivo embryo production in sheep. <i>Theriogenology</i> , <b>2011</b> , 75, 769-76	2.8	33
49	In vitro capacitation and acrosome reaction are concomitant with specific changes in mitochondrial activity in boar sperm: evidence for a nucleated mitochondrial activation and for the existence of a capacitation-sensitive subpopulational structure. <i>Reproduction in Domestic Animals</i> , <b>2011</b> , 46, 664-73	1.6	33
48	Melatonin prevents capacitation and apoptotic-like changes of ram spermatozoa and increases fertility rate. <i>Journal of Pineal Research</i> , <b>2010</b> , 48, 39-46	10.4	83
47	Caffeine induces ram sperm hyperactivation independent of cAMP-dependent protein kinase. <i>Journal of Developmental and Physical Disabilities</i> , <b>2010</b> , 33, e187-97		36
46	Significance of non-conventional parameters in the evaluation of cooling-induced damage to ram spermatozoa diluted in three different media. <i>Reproduction in Domestic Animals</i> , <b>2010</b> , 45, e260-8	1.6	9
45	Seasonal variations of melatonin in ram seminal plasma are correlated to those of testosterone and antioxidant enzymes. <i>Reproductive Biology and Endocrinology</i> , <b>2010</b> , 8, 59	5	56
44	Effects of melatonin implants during non-breeding season on sperm motility and reproductive parameters in Rasa Aragonesa rams. <i>Reproduction in Domestic Animals</i> , <b>2010</b> , 45, 425-32	1.6	54
43	Changes in content and localization of proteins phosphorylated at tyrosine, serine and threonine residues during ram sperm capacitation and acrosome reaction. <i>Reproduction</i> , <b>2009</b> , 137, 655-67	3.8	26
42	Ultrastructural study of the ability of seminal plasma proteins to protect ram spermatozoa against cold-shock. <i>Microscopy Research and Technique</i> , <b>2009</b> , 72, 566-72	2.8	26
41	Changes in actin distribution of ram spermatozoa under different experimental conditions. <i>Reproduction in Domestic Animals</i> , <b>2009</b> , 44, 221-7	1.6	4
40	Changes in calmodulin immunocytochemical localization associated with capacitation and acrosomal exocytosis of ram spermatozoa. <i>Theriogenology</i> , <b>2009</b> , 71, 789-800	2.8	17
39	Seminal plasma proteins and sperm resistance to stress. <i>Reproduction in Domestic Animals</i> , <b>2008</b> , 43 Suppl 4, 18-31	1.6	99
38	Cyclic-AMP initiates protein tyrosine phosphorylation independent of cholesterol efflux during ram sperm capacitation. <i>Reproduction, Fertility and Development</i> , <b>2008</b> , 20, 649-58	1.8	32

37	Study of apoptosis-related markers in ram spermatozoa. <i>Animal Reproduction Science</i> , <b>2008</b> , 106, 113-322.1		40
36	Identification of RSVP14 and RSVP20 components by two-dimensional electrophoresis and Western-blotting. <i>Reproduction in Domestic Animals</i> , <b>2008</b> , 43, 15-21	1.6	18
35	Cryosurvival and in vitro fertilizing capacity postthaw is improved when boar spermatozoa are frozen in the presence of seminal plasma from good freezer boars. <i>Journal of Andrology</i> , <b>2007</b> , 28, 689-97		79
34	New method for the treatment of sperm samples for ultrastructural study based on the use of animal tissues as biological containers. <i>Microscopy Research and Technique</i> , <b>2007</b> , 70, 657-62	2.8	1
33	Effects of ageing and exogenous melatonin on pituitary responsiveness to GnRH in ewes during anestrus and the reproductive season. <i>Theriogenology</i> , <b>2007</b> , 67, 855-62	2.8	16
32	Seasonal variations in antioxidant enzyme activity in ram seminal plasma. <i>Theriogenology</i> , <b>2007</b> , 67, 1446-54	2.8	67
31	Signal transduction mechanisms involved in in vitro ram sperm capacitation. <i>Reproduction</i> , <b>2006</b> , 132, 721-32	3.8	55
30	Comparative study of four different sperm washing methods using apoptotic markers in ram spermatozoa. <i>Journal of Andrology</i> , <b>2006</b> , 27, 746-53		30
29	Immunohistochemical localization of sperm-preserving proteins in the ram reproductive tract. <i>Journal of Andrology</i> , <b>2006</b> , 27, 588-95		19
28	The effect of melatonin implants during the seasonal anestrus on embryo production after superovulation in aged high-prolificacy Rasa Aragonesa ewes. <i>Theriogenology</i> , <b>2006</b> , 65, 356-65	2.8	57
27	Monthly variations in ovine seminal plasma proteins analyzed by two-dimensional polyacrylamide gel electrophoresis. <i>Theriogenology</i> , <b>2006</b> , 66, 841-50	2.8	66
26	Sperm survival and heterogeneity are correlated with fertility after intrauterine insemination in superovulated ewes. <i>Theriogenology</i> , <b>2005</b> , 63, 748-62	2.8	8
25	Immunocytochemical localization and biochemical characterization of two seminal plasma proteins that protect ram spermatozoa against cold shock. <i>Journal of Andrology</i> , <b>2005</b> , 26, 539-49		79
24	Ram sperm selection by a dextran/swim-up procedure increases fertilization rates following intrauterine insemination in superovulated ewes. <i>Journal of Andrology</i> , <b>2004</b> , 25, 982-90		21
23	Different functional states of ram spermatozoa analysed by partition in an aqueous two-phase system. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2003</b> , 795, 83-91	3.2	7
22	Survival rate and antioxidant enzyme activity of ram spermatozoa after dilution with different extenders or selection by a dextran swim-up procedure. <i>Theriogenology</i> , <b>2003</b> , 60, 1025-37	2.8	31
21	Seminal plasma proteins reduce protein tyrosine phosphorylation in the plasma membrane of cold-shocked ram spermatozoa. <i>Molecular Reproduction and Development</i> , <b>2002</b> , 61, 226-33	2.6	55
20	Prediction of fertility by centrifugal countercurrent distribution (CCCD) analysis: correlation between viability and heterogeneity of ram semen and field fertility. <i>Reproduction</i> , <b>2002</b> , 123, 869-75	3.8	15

19	Seasonal differences in ram seminal plasma revealed by partition in an aqueous two-phase system. <i>Biomedical Applications</i> , <b>2001</b> , 760, 113-21		32
18	Semen plasma proteins prevent cold-shock membrane damage to ram spermatozoa. <i>Theriogenology</i> , <b>2001</b> , 56, 425-34	2.8	83
17	Sperm washing method alters the ability of seminal plasma proteins to revert the cold-shock damage on ram sperm membrane. <i>Journal of Developmental and Physical Disabilities</i> , <b>2001</b> , 24, 352-359		17
16	Sperm washing method alters the ability of seminal plasma proteins to revert the cold-shock damage on ram sperm membrane. <i>Journal of Developmental and Physical Disabilities</i> , <b>2001</b> , 24, 352-9		3
15	Seminal plasma proteins revert the cold-shock damage on ram sperm membrane. <i>Biology of Reproduction</i> , <b>2000</b> , 63, 1531-7	3.9	151
14	Assessment of the acrosomal status of ram spermatozoa by RCA lectin-binding and partition in an aqueous two-phase system. <i>Journal of Andrology</i> , <b>2000</b> , 21, 541-8		7
13	Separation of ram spermatozoa bearing X and Y chromosome by centrifugal countercurrent distribution in an aqueous two-phase system. <i>Journal of Andrology</i> , <b>2000</b> , 21, 921-8		8
12	Sperm-lectin agglutination combined with swim-up leads to an efficient selection of highly motile, viable and heterogeneous ram spermatozoa. <i>Theriogenology</i> , <b>1999</b> , 51, 623-36	2.8	5
11	Improvement of ram sperm cryopreservation protocols assessed by sperm quality parameters and heterogeneity analysis. <i>Cryobiology</i> , <b>1998</b> , 37, 1-12	2.7	54
10	Surface changes of ram spermatozoa by adsorption of homologous and heterologous seminal plasma proteins revealed by partition in an aqueous two-phase system. <i>Reproduction, Fertility and Development</i> , <b>1997</b> , 9, 381-90	1.8	28
9	Improvement of cryopreserved ram sperm heterogeneity and viability by addition of seminal plasma. <i>Journal of Andrology</i> , <b>1997</b> , 18, 732-9		21
8	A dextran swim-up procedure for separation of highly motile and viable ram spermatozoa from seminal plasma. <i>Theriogenology</i> , <b>1996</b> , 46, 141-151	2.8	58
7	Short-term inhibition of the energy metabolism affects motility but not surface properties of sperm cells. <i>Bioscience Reports</i> , <b>1996</b> , 16, 35-40	4.1	17
6	Viability of ram spermatozoa in relation to the abstinence period and successive ejaculations. <i>Journal of Developmental and Physical Disabilities</i> , <b>1996</b> , 19, 287-92		71
5	Reversion of thermic-shock effect on ram spermatozoa by adsorption of seminal plasma proteins revealed by partition in aqueous two-phase systems. <i>Biomedical Applications</i> , <b>1996</b> , 680, 137-43		32
4	Revealing surface changes associated with maturation of ram spermatozoa by centrifugal counter-current distribution in an aqueous two-phase system. <i>Journal of Chromatography A</i> , <b>1994</b> , 668, 173-8	4.5	21
3	Acquisition of viable-like surface properties of sperm cells by adsorption of seminal plasma proteins revealed by centrifugal countercurrent distribution. <i>Biology of the Cell</i> , <b>1994</b> , 82, 75-8	3.5	14
2	Sperm cell heterogeneity revealed by centrifugal counter-current distribution in an aqueous two-phase system. <i>Biomedical Applications</i> , <b>1993</b> , 617, 51-7		19

- 1 Management of sedimentation in centrifugal counter-current distribution of sperm cells in an aqueous 2-phase system. *Journal of Proteomics*, **1992**, 24, 275-84