Teresa MuiÃ±o-Blanco

List of Publications by Year
in descending order

92 papers	3,131 citations	109264 35 h-index	175177 52 g-index
93 all docs	93 docs citations	93 times ranked	1993 citing authors

#	Article	IF	Citations
1	Seminal Plasma Proteins Revert the Cold-Shock Damage on Ram Sperm Membrane1. Biology of Reproduction, 2000, 63, 1531-1537.	1.2	176
2	Seminal Plasma Proteins and Sperm Resistance to Stress. Reproduction in Domestic Animals, 2008, 43, 18-31.	0.6	122
3	Melatonin prevents capacitation and apoptoticâ€like changes of ram spermatozoa and increases fertility rate. Journal of Pineal Research, 2010, 48, 39-46.	3.4	108
4	Semen plasma proteins prevent cold-shock membrane damage to ram spermatozoa. Theriogenology, 2001, 56, 425-434.	0.9	97
5	Cryosurvival and In Vitro Fertilizing Capacity Postthaw Is Improved When Boar Spermatozoa Are Frozen in the Presence of Seminal Plasma From Good Freezer Boars. Journal of Andrology, 2007, 28, 689-697.	2.0	94
6	Immunocytochemical Localization and Biochemical Characterization of Two Seminal Plasma Proteins That Protect Ram Spermatozoa Against Cold Shock. Journal of Andrology, 2005, 26, 539-549.	2.0	92
7	Seasonal variations of melatonin in ram seminal plasma are correlated to those of testosterone and antioxidant enzymes. Reproductive Biology and Endocrinology, 2010, 8, 59.	1.4	90
8	Seasonal variations in antioxidant enzyme activity in ram seminal plasma. Theriogenology, 2007, 67, 1446-1454.	0.9	86
9	Viability of ram spermatozoa in relation to the abstinence period and successive ejaculations. Journal of Developmental and Physical Disabilities, 1996, 19, 287-292.	3.6	83
10	Monthly variations in ovine seminal plasma proteins analyzed by two-dimensional polyacrylamide gel electrophoresis. Theriogenology, 2006, 66, 841-850.	0.9	73
11	Evidence of melatonin synthesis in the ram reproductive tract. Andrology, 2016, 4, 163-171.	1.9	71
12	Effects of Melatonin Implants During Nonâ€Breeding Season on Sperm Motility and Reproductive Parameters in Rasa Aragonesa Rams. Reproduction in Domestic Animals, 2010, 45, 425-432.	0.6	70
13	Seminal plasma proteins reduce protein tyrosine phosphorylation in the plasma membrane of cold-shocked ram spermatozoa. Molecular Reproduction and Development, 2002, 61, 226-233.	1.0	66
14	Evaluation of Lasting Effects of Heat Stress on Sperm Profile and Oxidative Status of Ram Semen and Epididymal Sperm. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-12.	1.9	66
15	The effect of melatonin implants during the seasonal anestrus on embryo production after superovulation in aged high-prolificacy Rasa Aragonesa ewes. Theriogenology, 2006, 65, 356-365.	0.9	64
16	Improvement of Ram Sperm Cryopreservation Protocols Assessed by Sperm Quality Parameters and Heterogeneity Analysis. Cryobiology, 1998, 37, 1-12.	0.3	63
17	A dextran swim-up procedure for separation of highly motile and viable ram spermatozoa from seminal plasma. Theriogenology, 1996, 46, 141-151.	0.9	61
18	Signal transduction mechanisms involved in in vitro ram sperm capacitation. Reproduction, 2006, 132, 721-732.	1.1	61

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19	Intracellular calcium movements of boar spermatozoa during â€˜inÂvitroâ€™ capacitation and subsequent acrosome exocytosis follow a multiple-storage place, extracellular calcium-dependent model. Andrology, 2015, 3, 729-747.	1.9	56
20	â€˜In Vitroâ€™ 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 Capacitationâ€Sensitive Subpopulational Structure. Reproduction in Domestic Animals, 2011, 46, 664-673.	0.6	51
21	Identification and immunolocalisation of melatonin MT1 and MT2 receptors in Rasa Aragonesa ram spermatozoa. Reproduction, Fertility and Development, 2012, 24, 953.	0.1	49
22	Oligomycin A-induced inhibition of mitochondrial ATP-synthase activity suppresses boar sperm motility and in vitro capacitation achievement without modifying overall sperm energy levels. Reproduction, Fertility and Development, 2014, 26, 883.	0.1	47
23	OpenCASA: A new open-source and scalable tool for sperm quality analysis. PLoS Computational Biology, 2019, 15, e1006691.	1.5	46
24	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. Animal Reproduction Science, 2013, 138, 168-174.	0.5	45
25	Study of apoptosis-related markers in ram spermatozoa. Animal Reproduction Science, 2008, 106, 113-132.	0.5	44
26	Repeated superovulation using a simplified FSH/eCG treatment for in vivo embryo production in sheep. Theriogenology, 2011, 75, 769-776.	0.9	44
27	Induced lipid peroxidation in ram sperm: semen profile, DNA fragmentation and antioxidant status. Reproduction, 2016, 151, 379-390.	1.1	44
28	Soy Lecithin Interferes With Mitochondrial Function in Frozenâ€Thawed Ram Spermatozoa. Journal of Andrology, 2012, 33, 717-725.	2.0	43
29	Seasonal differences in ram seminal plasma revealed by partition in an aqueous two-phase system. Biomedical Applications, 2001, 760, 113-121.	1.7	42
30	Reversion of thermic-shock effect on ram spermatozoa by adsorption of seminal plasma proteins revealed by partition in aqueous two-phase systems. Biomedical Applications, 1996, 680, 137-143.	1.7	41
31	Caffeine induces ram sperm hyperactivation independent of cAMPâ€dependent protein kinase. Journal of Developmental and Physical Disabilities, 2010, 33, e187-97.	3.6	41
32	Melatonin receptors MT1 and MT2 are expressed in spermatozoa from several seasonal and nonseasonal breeder species. Theriogenology, 2016, 86, 1958-1968.	0.9	41
33	Survival rate and antioxidant enzyme activity of ram spermatozoa after dilution with different extenders or selection by a dextran swim-up procedure. Theriogenology, 2003, 60, 1025-1037.	0.9	40
34	Melatonin in Sperm Biology: Breaking Paradigms. Reproduction in Domestic Animals, 2014, 49, 11-21.	0.6	37
35	Cyclic-AMP initiates protein tyrosine phosphorylation independent of cholesterol efflux during ram sperm capacitation. Reproduction, Fertility and Development, 2008, 20, 649.	0.1	35
36	Melatonin MT1 and MT2 Receptors in the Ram Reproductive Tract. International Journal of Molecular Sciences, 2017, 18, 662.	1.8	33

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37	Surface changes of ram spermatozoa by adsorption of homologous and heterologous seminal plasma proteins revealed by partition in an aqueous two-phase system. Reproduction, Fertility and Development, 1997, 9, 381.	0.1	33
38	Changes in content and localization of proteins phosphorylated at tyrosine, serine and threonine residues during ram sperm capacitation and acrosome reaction. Reproduction, 2009, 137, 655-667.	1.1	32
39	Ultrastructural study of the ability of seminal plasma proteins to protect ram spermatozoa against coldâ€shock. Microscopy Research and Technique, 2009, 72, 566-572.	1.2	32
40	New Insights into the Mechanisms of Ram Sperm Protection by Seminal Plasma Proteins. Biology of Reproduction, 2013, 88, 149-149.	1.2	32
41	Comparative Study of Four Different Sperm Washing Methods Using Apoptotic Markers in Ram Spermatozoa. Journal of Andrology, 2006, 27, 746-753.	2.0	31
42	Melatonin reduces cAMP-stimulated capacitation of ram spermatozoa. Reproduction, Fertility and Development, 2019, 31, 420.	0.1	30
43	Revealing surface changes associated with maturation of ram spermatozoa by centrifugal counter-current distribution in an aqueous two-phase system. Journal of Chromatography A, 1994, 668, 173-178.	1.8	27
44	Effect of seminal plasma proteins on the motile sperm subpopulations in ram ejaculates. Reproduction, Fertility and Development, 2017, 29, 394.	0.1	27
45	Sperm cell heterogeneity revealed by centrifugal counter-current distribution in an aqueous two-phase system. Biomedical Applications, 1993, 617, 51-57.	1.7	25
46	Immunohistochemical Localization of Sperm-Preserving Proteins in the Ram Reproductive Tract. Journal of Andrology, 2006, 27, 588-595.	2.0	25
47	Ram Sperm Selection by a Dextran/Swimâ€Up Procedure Increases Fertilization Rates Following Intrauterine Insemination in Superovulated Ewes. Journal of Andrology, 2004, 25, 982-990.	2.0	24
48	New evidence of melatonin receptor contribution to ram sperm functionality. Reproduction, Fertility and Development, 2016, 28, 924.	0.1	22
49	Identification of RSVP14 and RSVP20 Components by Twoâ€dimensional Electrophoresis and Westernâ€blotting. Reproduction in Domestic Animals, 2008, 43, 15-21.	0.6	21
50	Improvement of cryopreserved ram sperm heterogeneity and viability by addition of seminal plasma. Journal of Andrology, 1997, 18, 732-9.	2.0	21
51	Short-term inhibition of the energy metabolism affects motility but not surface properties of sperm cells. Bioscience Reports, 1996, 16, 35-40.	1.1	19
52	Effects of ageing and exogenous melatonin on pituitary responsiveness to GnRH in ewes during anestrus and the reproductive season. Theriogenology, 2007, 67, 855-862.	0.9	19
53	Cleaved PARPâ€1, an Apoptotic Marker, can be Detected in Ram Spermatozoa. Reproduction in Domestic Animals, 2015, 50, 688-691.	0.6	19
54	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 routesâ€. Biology of Reproduction, 2017, 96, 800-815.	1.2	19

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55	Role of melatonin on embryo viability in sheep. Reproduction, Fertility and Development, 2019, 31, 82.	0.1	19
56	Sperm washing method alters the ability of seminal plasma proteins to revert the cold-shock damage on ram sperm membrane. Journal of Developmental and Physical Disabilities, 2001, 24, 352-359.	3.6	19
57	Prediction of fertility by centrifugal countercurrent distribution (CCCD) analysis: correlation between viability and heterogeneity of ram semen and field fertility. Reproduction, 2002, 123, 869-875.	1.1	18
58	Changes in calmodulin immunocytochemical localization associated with capacitation and acrosomal exocytosis of ram spermatozoa. Theriogenology, 2009, 71, 789-800.	0.9	18
59	A Novel Epidermal Growth Factor-Dependent Extracellular Signal-Regulated MAP Kinase Cascade Involved in Sperm Functionality in Sheep1. Biology of Reproduction, 2012, 87, 93.	1.2	17
60	Function of ram spermatozoa frozen in diluents supplemented with casein and vegetable oils. Animal Reproduction Science, 2013, 138, 213-219.	0.5	17
61	Acquisition of viable-like surface properties of sperm cells by adsorption of seminal plasma proteins revealed by centrifugal countercurrent distribution. Biology of the Cell, 1994, 82, 75-78.	0.7	16
62	Expression, cellular localization, and involvement of the pentose phosphate pathway enzymes in the regulation of ram sperm capacitation. Theriogenology, 2016, 86, 704-714.	0.9	16
63	Ram seminal plasma proteins contribute to sperm capacitation and modulate spermâ€“zona pellucida interaction. Theriogenology, 2015, 83, 670-678.	0.9	15
64	Melatonin affects the motility and adhesiveness of inÂvitro capacitated boar spermatozoa via a mechanism that does not depend on intracellular <scp>ROS</scp> levels. Andrology, 2018, 6, 720-736.	1.9	14
65	Steroid hormone receptors and direct effects of steroid hormones on ram spermatozoa. Reproduction, 2017, 154, 469-481.	1.1	13
66	Management of sedimentation in centrifugal counter-current distribution of sperm cells in an aqueous 2-phase system. Journal of Proteomics, 1992, 24, 275-284.	2.4	12
67	Significance of Nonâ€conventional Parameters in the Evaluation of Coolingâ€induced Damage to Ram Spermatozoa Diluted in Three Different Media. Reproduction in Domestic Animals, 2010, 45, e260-8.	0.6	12
68	Sperm quality and seminal plasma proteins in three sheep breeds under high altitude and tropical conditions. Spanish Journal of Agricultural Research, 2018, 16, e0403.	0.3	12
69	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. Animal Reproduction Science, 2019, 200, 22-30.	0.5	10
70	Vasectomy and Photoperiodic Regimen Modify the Protein Profile, Hormonal Content and Antioxidant Enzymes Activity of Ram Seminal Plasma. International Journal of Molecular Sciences, 2020, 21, 8063.	1.8	10
71	Separation of ram spermatozoa bearing X and Y chromosome by centrifugal countercurrent distribution in an aqueous two-phase system. Journal of Andrology, 2000, 21, 921-8.	2.0	9
72	Different functional states of ram spermatozoa analysed by partition in an aqueous two-phase system. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 795, 83-91.	1.2	8

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73	Sperm survival and heterogeneity are correlated with fertility after intrauterine insemination in superovulated ewes. Theriogenology, 2005, 63, 748-762.	0.9	8
74	Quality characteristics and fertilizing ability of ram sperm subpopulations separated by partition in an aqueous two-phase system. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 880, 74-81.	1.2	8
75	Influence of Non-conventional Sperm Quality Parameters on Field Fertility in Ovine. Frontiers in Veterinary Science, 2021, 8, 650572.	0.9	8
76	Sperm-lectin agglutination combined with swim-up leads to an efficient selection of highly motile, viable and heterogeneous ram spermatozoa. Theriogenology, 1999, 51, 623-636.	0.9	7
77	Characterization of the cDNA and in vitro expression of the ram seminal plasma protein RSVP14. Gene, 2013, 519, 271-278.	1.0	7
78	New Insights into the Phylogeny and Gene Context Analysis of Binder of Sperm Proteins (BSPs). PLoS ONE, 2015, 10, e0137008.	1.1	7
79	Profile and reproductive roles of seminal plasma melatonin of boar ejaculates used in artificial insemination programs1. Journal of Animal Science, 2017, 95, 1660-1668.	0.2	7
80	Assessment of the acrosomal status of ram spermatozoa by RCA lectin-binding and partition in an aqueous two-phase system. Journal of Andrology, 2000, 21, 541-8.	2.0	7
81	Does Melatonin Exert Its Effect on Ram Sperm Capacitation Through Nitric Oxide Synthase Regulation?. International Journal of Molecular Sciences, 2020, 21, 2093.	1.8	6
82	Changes in Actin Distribution of Ram Spermatozoa under Different Experimental Conditions. Reproduction in Domestic Animals, 2009, 44, 221-227.	0.6	5
83	Underlying molecular mechanism in the modulation of the ram sperm acrosome reaction by progesterone and 17Î²-estradiol. Animal Reproduction Science, 2020, 221, 106567.	0.5	5
84	Presence of melatoninâ€catabolizing nonâ€specific enzymes myeloperoxidase and indoleamine 2,3â€dioxygenase in the ram reproductive tract. Reproduction in Domestic Animals, 2019, 54, 1643-1650.	0.6	4
85	Melatonin membrane receptors MT1 and MT2 are expressed in ram spermatozoa from non-seasonal breeds. Tropical Animal Health and Production, 2020, 52, 2549-2557.	0.5	4
86	Sperm washing method alters the ability of seminal plasma proteins to revert the cold-shock damage on ram sperm membrane. Journal of Developmental and Physical Disabilities, 2001, 24, 352-9.	3.6	4
87	Involvement of progesterone and estrogen receptors in the ram sperm acrosome reaction. Domestic Animal Endocrinology, 2021, 74, 106527.	0.8	3
88	Use of laparoscopic intrauterine insemination associated with a simplified superovulation treatment for in vivo embryo production in sheep: a preliminary report. Animal Production Science, 2012, 52, 1111.	0.6	2
89	The melatonin concentration in boar seminal plasma: A predictive in vivo fertility marker?. Animal Reproduction Science, 2016, 169, 131.	0.5	2
90	New method for the treatment of sperm samples for ultrastructural study based on the use of animal tissues as biological containers. Microscopy Research and Technique, 2007, 70, 657-662.	1.2	1

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91	Effects of 17-Î² estradiol and progesterone on ram sperm functionality. Animal Reproduction Science, 2016, 169, 111.	0.5	1
92	Centrifugal countercurrent chromatography to elucidate surface differences of adipose tissueâ€derived stem cells. Journal of Separation Science, 2012, 35, 1388-1398.	1.3	0