

Maria R Fernández-Santos

List of Publications by Year in descending order

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66
papers

2,179
citations

159358

30
h-index

243296

44
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67
all docs

67
docs citations

67
times ranked

1532
citing authors

#	ARTICLE	IF	CITATIONS
1	Sperm Cryodamage in Ruminants: Understanding the Molecular Changes Induced by the Cryopreservation Process to Optimize Sperm Quality. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2781.	1.8	105
2	Improving the effect of incubation and oxidative stress on thawed spermatozoa from red deer by using different antioxidant treatments. <i>Reproduction, Fertility and Development</i> , 2010, 22, 856.	0.1	92
3	Male Fertility and Sex Ratio at Birth in Red Deer. <i>Science</i> , 2006, 314, 1445-1447.	6.0	83
4	Functional Significance of the Sperm Head Morphometric Size and Shape for Determining Freezability in Iberian Red Deer (<i>Cervus elaphus hispanicus</i>) Epididymal Sperm Samples. <i>Journal of Andrology</i> , 2006, 27, 662-670.	2.0	81
5	Characteristics of Iberian red deer (<i>Cervus elaphus hispanicus</i>) spermatozoa cryopreserved after storage at 5°C in the epididymis for several days. <i>Theriogenology</i> , 2005, 64, 1503-1517.	0.9	78
6	Reactive oxygen species generators affect quality parameters and apoptosis markers differently in red deer spermatozoa. <i>Reproduction</i> , 2009, 137, 225-235.	1.1	77
7	Extender osmolality and sugar supplementation exert a complex effect on the cryopreservation of Iberian red deer (<i>Cervus elaphus hispanicus</i>) epididymal spermatozoa. <i>Theriogenology</i> , 2007, 67, 738-753.	0.9	74
8	Sperm Characteristics and DNA Integrity of Iberian Red Deer (<i>Cervus elaphus hispanicus</i>) Epididymal Spermatozoa Frozen in the Presence of Enzymatic and Nonenzymatic Antioxidants. <i>Journal of Andrology</i> , 2006, 28, 294-305.	2.0	73
9	Mitochondrial activity and forward scatter vary in necrotic, apoptotic and membrane-intact spermatozoan subpopulations. <i>Reproduction, Fertility and Development</i> , 2008, 20, 547.	0.1	71
10	The Application of Reproductive Technologies to Natural Populations of Red Deer. <i>Reproduction in Domestic Animals</i> , 2006, 41, 93-102.	0.6	68
11	Effect of semen collection method (artificial vagina vs. electroejaculation), extender and centrifugation on post-thaw sperm quality of Blanca-Celtibérica buck ejaculates. <i>Animal Reproduction Science</i> , 2012, 132, 88-95.	0.5	61
12	Effects of Thawing Procedure on Postthawed In Vitro Viability and In Vivo Fertility of Red Deer Epididymal Spermatozoa Cryopreserved at -196°C. <i>Journal of Andrology</i> , 2003, 24, 746-756.	2.0	57
13	A pilot study on post-thawing quality of Iberian red deer spermatozoa (epididymal and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2006, 66, 1165-1172.	0.9	47
14	Cryopreservation of Iberian red deer (<i>Cervus elaphus hispanicus</i>) epididymal spermatozoa: Effects of egg yolk, glycerol and cooling rate. <i>Theriogenology</i> , 2006, 66, 1931-1942.	0.9	45
15	Sperm parameters on Iberian red deer: Electroejaculation and post-mortem collection. <i>Theriogenology</i> , 2008, 70, 216-226.	0.9	45
16	Sperm characteristics and in vitro fertilization ability of thawed spermatozoa from Black Manchega ram: Electroejaculation and postmortem collection. <i>Theriogenology</i> , 2009, 72, 160-168.	0.9	43
17	Quality, oxidative markers and DNA damage (DNA) fragmentation of red deer thawed spermatozoa after incubation at 37 °C in presence of several antioxidants. <i>Theriogenology</i> , 2012, 78, 1005-1019.	0.9	43
18	DNA Status on Thawed Semen from Fighting Bull: A Comparison Between the SCD and the SCSA Tests. <i>Reproduction in Domestic Animals</i> , 2009, 44, 424-431.	0.6	42

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19	Heterologous in vitro fertilization is a good procedure to assess the fertility of thawed ram spermatozoa. <i>Theriogenology</i> , 2009, 71, 643-650.	0.9	42
20	Washing increases the susceptibility to exogenous oxidative stress in red deer spermatozoa. <i>Theriogenology</i> , 2009, 72, 1073-1084.	0.9	41
21	Comparison of the TBARS Assay and BODIPY ¹¹ Probes for Assessing Lipid Peroxidation in Red Deer Spermatozoa. <i>Reproduction in Domestic Animals</i> , 2010, 45, e360-8.	0.6	36
22	Comparison of three different staining methods for the assessment of epididymal red deer sperm morphometry by computerized analysis with ISAS [®] . <i>Theriogenology</i> , 2005, 64, 1236-1243.	0.9	35
23	Effects of Cryopreservation on Bull Spermatozoa Distribution in Morphometrically Distinct Subpopulations. <i>Reproduction in Domestic Animals</i> , 2007, 42, 354-357.	0.6	35
24	Sperm Cell Population Dynamics in Ram Semen during the Cryopreservation Process. <i>PLoS ONE</i> , 2013, 8, e59189.	1.1	35
25	Effects of Egg Yolk and Cooling Rate on the Survival of Refrigerated Red Deer (<i>Cervus elaphus</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 10	0.6	32
26	Effects of long-term chilled storage of red deer epididymides on DNA integrity and motility of thawed spermatozoa. <i>Animal Reproduction Science</i> , 2009, 111, 93-104.	0.5	32
27	Morphometrically-distinct sperm subpopulations defined by a multistep statistical procedure in Ram ejaculates: intra- and interindividual variation. <i>Theriogenology</i> , 2012, 77, 1529-1539.	0.9	32
28	Dynamics of sperm subpopulations based on motility and plasma membrane status in thawed ram spermatozoa incubated under conditions that support in vitro capacitation and fertilisation. <i>Reproduction, Fertility and Development</i> , 2014, 26, 725.	0.1	32
29	Refrigerated Storage of Red Deer Epididymal Spermatozoa in the Epididymis, Diluted and with Vitamin C Supplementation. <i>Reproduction in Domestic Animals</i> , 2009, 44, 212-220.	0.6	31
30	Catalase supplementation on thawed bull spermatozoa abolishes the detrimental effect of oxidative stress on motility and DNA integrity. <i>Journal of Developmental and Physical Disabilities</i> , 2009, 32, 353-359.	3.6	30
31	Effect of storage temperature during transport of ovaries on in vitro embryo production in Iberian red deer (<i>Cervus elaphus hispanicus</i>). <i>Theriogenology</i> , 2011, 75, 65-72.	0.9	30
32	Single layer centrifugation (SLC) improves sperm quality of cryopreserved Blanca-Celtib [®] buck semen. <i>Animal Reproduction Science</i> , 2012, 136, 47-54.	0.5	30
33	The Effects of Cryopreservation on the Morphometric Dimensions of Iberian Red Deer (<i>Cervus elaphus</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 10	0.6	29
34	Response of Thawed Epididymal Red Deer Spermatozoa to Increasing Concentrations of Hydrogen Peroxide, and Importance of Individual Male Variability. <i>Reproduction in Domestic Animals</i> , 2011, 46, 393-403.	0.6	29
35	Understanding Sperm Heterogeneity: Biological and Practical Implications. <i>Reproduction in Domestic Animals</i> , 2014, 49, 30-36.	0.6	29
36	Fertility of cryopreserved ovine semen is determined by sperm velocity. <i>Animal Reproduction Science</i> , 2013, 138, 102-109.	0.5	28

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37	Identification of Sperm Head Morphometric Subpopulations in Iberian Red Deer Epididymal Sperm Samples. <i>Reproduction in Domestic Animals</i> , 2009, 44, 206-211.	0.6	26
38	Influence of semen collection method on sperm cryoresistance in small ruminants. <i>Animal Reproduction Science</i> , 2016, 167, 103-108.	0.5	26
39	Effect of post-mortem time on post-thaw characteristics of Spanish ibex (<i>Capra pyrenaica</i>) spermatozoa. <i>Animal Reproduction Science</i> , 2011, 129, 56-66.	0.5	22
40	Increased chromatin fragmentation and reduced acrosome integrity in spermatozoa of red deer from lead polluted sites. <i>Science of the Total Environment</i> , 2015, 505, 32-38.	3.9	22
41	Current status and potential of morphometric sperm analysis. <i>Asian Journal of Andrology</i> , 2016, 18, 863-870.	0.8	22
42	Influence of Various Permeating Cryoprotectants on Freezability of Iberian Red Deer (<i>Cervus elaphus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf of <i>Andrology</i> , 2006, 27, 734-745.	2.0	21
43	Taking advantage of the use of supervised learning methods for characterization of sperm population structure related with freezability in the Iberian red deer. <i>Theriogenology</i> , 2012, 77, 1661-1672.	0.9	21
44	Infectious pathogens potentially transmitted by semen of the black variety of the Manchega sheep breed: Health constraints for conservation purposes. <i>Animal Reproduction Science</i> , 2014, 149, 152-157.	0.5	21
45	Use of Androcoll-S after thawing improves the quality of electroejaculated and epididymal sperm samples from red deer. <i>Animal Reproduction Science</i> , 2015, 158, 68-74.	0.5	21
46	Effect of different media additives on capacitation of frozen-thawed ram spermatozoa as a potential replacement for estrous sheep serum. <i>Theriogenology</i> , 2015, 84, 948-955.	0.9	20
47	Sperm head phenotype and male fertility in ram semen. <i>Theriogenology</i> , 2015, 84, 1536-1541.	0.9	20
48	Heterologous <i>In Vitro</i> Fertility Evaluation of Cryopreserved Iberian Red Deer Epididymal Spermatozoa with Zona-intact Sheep Oocytes and its Relationship with the Characteristics of Thawed Spermatozoa. <i>Reproduction in Domestic Animals</i> , 2008, 43, 293-298.	0.6	17
49	Reduced glutathione addition improves both the kinematics and physiological quality of post-thawed red deer sperm. <i>Animal Reproduction Science</i> , 2015, 162, 73-79.	0.5	17
50	Free-radical production after post-thaw incubation of ram spermatozoa is related to decreased in vivo fertility. <i>Reproduction, Fertility and Development</i> , 2015, 27, 1187.	0.1	16
51	Oxygen tension during in vitro oocyte maturation and fertilization affects embryo quality in sheep and deer. <i>Animal Reproduction Science</i> , 2020, 213, 106279.	0.5	15
52	Genotypes of <i>Coxiella burnetii</i> in wildlife: disentangling the molecular epidemiology of a multi-host pathogen. <i>Environmental Microbiology Reports</i> , 2016, 8, 708-714.	1.0	11
53	Estrous sheep serum enables <i>In Vitro</i> capacitation of ram spermatozoa while preventing caspase activation. <i>Theriogenology</i> , 2016, 85, 351-360.	0.9	11
54	Effect of sex-sorting and cryopreservation on the post-thaw sperm quality of Iberian red deer spermatozoa. <i>Theriogenology</i> , 2017, 89, 206-213.	0.9	11

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55	Vitamin E Delivery Systems Increase Resistance to Oxidative Stress in Red Deer Sperm Cells: Hydrogel and Nanoemulsion Carriers. <i>Antioxidants</i> , 2021, 10, 1780.	2.2	11
56	The Effect of Oxidative Stress on Thawed Bulk-Sorted Red Deer Sperm. <i>Reproduction in Domestic Animals</i> , 2016, 51, 407-414.	0.6	9
57	Improved cryopreservation protocol for Blanca-Celtibérica buck semen collected by electroejaculation. <i>Cryobiology</i> , 2013, 67, 251-257.	0.3	8
58	Oestrous sheep serum balances ROS levels to supply in vitro capacitation of ram spermatozoa. <i>Reproduction in Domestic Animals</i> , 2016, 51, 743-750.	0.6	7
59	Cellular and Molecular Events that Occur in the Oocyte during Prolonged Ovarian Storage in Sheep. <i>Animals</i> , 2020, 10, 2414.	1.0	7
60	Ovine sperm DNA oxidation quantification using an 8-OHdG immunodetection assay. <i>Reproduction in Domestic Animals</i> , 2019, 54, 59-64.	0.6	6
61	Beneficial Effects of Melatonin in the Ovarian Transport Medium on In Vitro Embryo Production of Iberian Red Deer (<i>Cervus elaphus hispanicus</i>). <i>Animals</i> , 2020, 10, 763.	1.0	6
62	Freezing Protocol Optimization for Iberian Red Deer (<i>Cervus elaphus hispanicus</i>) Epididymal Sperm under Field Conditions. <i>Animals</i> , 2022, 12, 869.	1.0	6
63	Selection of red deer spermatozoa with different cryoresistance using density gradients. <i>Reproduction in Domestic Animals</i> , 2016, 51, 895-900.	0.6	3
64	Influence of foetal calf serum supplementation during in vitro embryo culture in Iberian red deer. <i>Reproduction in Domestic Animals</i> , 2019, 54, 69-71.	0.6	2
65	Exogenous Melatonin Improves the Reproductive Outcomes of Yearling Iberian Red Deer (<i>Cervus</i>) Tj ETQq1 1 0.784314 rgBT ₁ Overlock	1.0	1
66	159 WASHING INCREASES THE VULNERABILITY OF RED DEER THAWED SPERMATOZOA TO OXIDATIVE STRESS. <i>Reproduction, Fertility and Development</i> , 2009, 21, 178.	0.1	0