# Maria R Fernndez-Santos

## List of Publications by Citations

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|---|---|---|---|
| 63 papers | 1,698 citations | 26 h-index | 38 g-index |
| 67 ext. papers | 1,946 ext. citations | 2.9 avg, IF | 4.02 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 63 | Improving the effect of incubation and oxidative stress on thawed spermatozoa from red deer by using different antioxidant treatments. *Reproduction, Fertility and Development*, **2010**, 22, 856-70 | 1.8 | 76 |
| 62 | Male fertility and sex ratio at birth in red deer. *Science*, **2006**, 314, 1445-7 | 33.3 | 74 |
| 61 | Reactive oxygen species generators affect quality parameters and apoptosis markers differently in red deer spermatozoa. *Reproduction*, **2009**, 137, 225-35 | 3.8 | 67 |
| 60 | Characteristics of Iberian red deer (Cervus elaphus hispanicus) spermatozoa cryopreserved after storage at 5 degrees C in the epididymis for several days. *Theriogenology*, **2005**, 64, 1503-17 | 2.8 | 66 |
| 59 | Functional significance of the sperm head morphometric size and shape for determining freezability in iberian red deer (Cervus elaphus hispanicus) epididymal sperm samples. *Journal of Andrology*, **2006**, 27, 662-70 | | 64 |
| 58 | Extender osmolality and sugar supplementation exert a complex effect on the cryopreservation of Iberian red deer (Cervus elaphus hispanicus) epididymal spermatozoa. *Theriogenology*, **2007**, 67, 738-53 | 2.8 | 62 |
| 57 | Mitochondrial activity and forward scatter vary in necrotic, apoptotic and membrane-intact spermatozoan subpopulations. *Reproduction, Fertility and Development*, **2008**, 20, 547-56 | 1.8 | 61 |
| 56 | The application of reproductive technologies to natural populations of red deer. *Reproduction in Domestic Animals*, **2006**, 41 Suppl 2, 93-102 | 1.6 | 57 |
| 55 | Sperm characteristics and DNA integrity of Iberian red deer (Cervus elaphus hispanicus) epididymal spermatozoa frozen in the presence of enzymatic and nonenzymatic antioxidants. *Journal of Andrology*, **2007**, 28, 294-305 | | 57 |
| 54 | Effects of thawing procedure on postthawed in vitro viability and in vivo fertility of red deer epididymal spermatozoa cryopreserved at -196 degrees C. *Journal of Andrology*, **2003**, 24, 746-56 | | 48 |
| 53 | Effect of semen collection method (artificial vagina vs. electroejaculation), extender and centrifugation on post-thaw sperm quality of Blanca-Celtib□ica buck ejaculates. *Animal Reproduction Science*, **2012**, 132, 88-95 | 2.1 | 44 |
| 52 | A pilot study on post-thawing quality of Iberian red deer spermatozoa (epididymal and electroejaculated) depending on glycerol concentration and extender osmolality. *Theriogenology*, **2006**, 66, 1165-72 | 2.8 | 39 |
| 51 | Sperm parameters on Iberian red deer: electroejaculation and post-mortem collection. *Theriogenology*, **2008**, 70, 216-26 | 2.8 | 37 |
| 50 | Cryopreservation of Iberian red deer (Cervus elaphus hispanicus) epididymal spermatozoa: effects of egg yolk, glycerol and cooling rate. *Theriogenology*, **2006**, 66, 1931-42 | 2.8 | 37 |
| 49 | Heterologous in vitro fertilization is a good procedure to assess the fertility of thawed ram spermatozoa. *Theriogenology*, **2009**, 71, 643-50 | 2.8 | 36 |
| 48 | Sperm Cryodamage in Ruminants: Understanding the Molecular Changes Induced by the Cryopreservation Process to Optimize Sperm Quality. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 34 |
| 47 | Quality, oxidative markers and DNA damage (DNA) fragmentation of red deer thawed spermatozoa after incubation at 37 °C in presence of several antioxidants. *Theriogenology*, **2012**, 78, 1005-19 | 2.8 | 34 |

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| 46 | Sperm characteristics and in vitro fertilization ability of thawed spermatozoa from Black Manchega ram: electroejaculation and postmortem collection. *Theriogenology*, **2009**, 72, 160-8 | 2.8 | 34 |
| 45 | Washing increases the susceptibility to exogenous oxidative stress in red deer spermatozoa. *Theriogenology*, **2009**, 72, 1073-84 | 2.8 | 34 |
| 44 | Effects of cryopreservation on bull spermatozoa distribution in morphometrically distinct subpopulations. *Reproduction in Domestic Animals*, **2007**, 42, 354-7 | 1.6 | 34 |
| 43 | Comparison of three different staining methods for the assessment of epididymal red deer sperm morphometry by computerized analysis with ISAS. *Theriogenology*, **2005**, 64, 1236-43 | 2.8 | 33 |
| 42 | DNA status on thawed semen from fighting bull: a comparison between the SCD and the SCSA tests. *Reproduction in Domestic Animals*, **2009**, 44, 424-31 | 1.6 | 32 |
| 41 | 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. *Reproduction, Fertility and Development*, **2014**, 26, 725-32 | 1.8 | 30 |
| 40 | Comparison of the TBARS assay and BODIPY C11 probes for assessing lipid peroxidation in red deer spermatozoa. *Reproduction in Domestic Animals*, **2010**, 45, e360-8 | 1.6 | 30 |
| 39 | Sperm cell population dynamics in ram semen during the cryopreservation process. *PLoS ONE*, **2013**, 8, e59189 | 3.7 | 29 |
| 38 | Morphometrically-distinct sperm subpopulations defined by a multistep statistical procedure in ram ejaculates: intra- and interindividual variation. *Theriogenology*, **2012**, 77, 1529-39 | 2.8 | 27 |
| 37 | Single layer centrifugation (SLC) improves sperm quality of cryopreserved Blanca-Celtibérica buck semen. *Animal Reproduction Science*, **2012**, 136, 47-54 | 2.1 | 26 |
| 36 | Response of thawed epididymal red deer spermatozoa to increasing concentrations of hydrogen peroxide, and importance of individual male variability. *Reproduction in Domestic Animals*, **2011**, 46, 393-403 | 1.6 | 26 |
| 35 | Refrigerated storage of red deer epididymal spermatozoa in the epididymis, diluted and with vitamin C supplementation. *Reproduction in Domestic Animals*, **2009**, 44, 212-20 | 1.6 | 26 |
| 34 | Effects of egg yolk and cooling rate on the survival of refrigerated red deer (Cervus elaphus hispanicus) epididymal spermatozoa. *Reproduction in Domestic Animals*, **2006**, 41, 114-8 | 1.6 | 26 |
| 33 | Catalase supplementation on thawed bull spermatozoa abolishes the detrimental effect of oxidative stress on motility and DNA integrity. *Journal of Developmental and Physical Disabilities*, **2009**, 32, 353-9 | | 25 |
| 32 | The effects of cryopreservation on the morphometric dimensions of Iberian red deer (Cervus elaphus hispanicus) epididymal sperm heads. *Reproduction in Domestic Animals*, **2006**, 41, 241-6 | 1.6 | 25 |
| 31 | Effects of long-term chilled storage of red deer epididymides on DNA integrity and motility of thawed spermatozoa. *Animal Reproduction Science*, **2009**, 111, 93-104 | 2.1 | 24 |
| 30 | Understanding sperm heterogeneity: biological and practical implications. *Reproduction in Domestic Animals*, **2014**, 49 Suppl 4, 30-6 | 1.6 | 23 |
| 29 | Effect of storage temperature during transport of ovaries on in vitro embryo production in Iberian red deer (Cervus elaphus hispanicus). *Theriogenology*, **2011**, 75, 65-72 | 2.8 | 23 |

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| 28 | Identification of sperm-head morphometric subpopulations in iberian red deer epididymal sperm samples. *Reproduction in Domestic Animals*, **2009**, 44, 206-11 | 1.6 | 23 |
| 27 | Fertility of cryopreserved ovine semen is determined by sperm velocity. *Animal Reproduction Science*, **2013**, 138, 102-9 | 2.1 | 21 |
| 26 | Effect of post-mortem time on post-thaw characteristics of Spanish ibex (Capra pyrenaica) spermatozoa. *Animal Reproduction Science*, **2011**, 129, 56-66 | 2.1 | 19 |
| 25 | Increased chromatin fragmentation and reduced acrosome integrity in spermatozoa of red deer from lead polluted sites. *Science of the Total Environment*, **2015**, 505, 32-8 | 10.2 | 18 |
| 24 | Use of Androcoll-S after thawing improves the quality of electroejaculated and epididymal sperm samples from red deer. *Animal Reproduction Science*, **2015**, 158, 68-74 | 2.1 | 18 |
| 23 | Influence of various permeating cryoprotectants on freezability of Iberian red deer (Cervus elaphus hispanicus) epididymal spermatozoa: effects of concentration and temperature of addition. *Journal of Andrology*, **2006**, 27, 734-45 | | 17 |
| 22 | Sperm head phenotype and male fertility in ram semen. *Theriogenology*, **2015**, 84, 1536-41 | 2.8 | 16 |
| 21 | Taking advantage of the use of supervised learning methods for characterization of sperm population structure related with freezability in the Iberian red deer. *Theriogenology*, **2012**, 77, 1661-72 | 2.8 | 16 |
| 20 | Influence of semen collection method on sperm cryoresistance in small ruminants. *Animal Reproduction Science*, **2016**, 167, 103-8 | 2.1 | 16 |
| 19 | Effect of different media additives on capacitation of frozen-thawed ram spermatozoa as a potential replacement for estrous sheep serum. *Theriogenology*, **2015**, 84, 948-55 | 2.8 | 15 |
| 18 | Infectious pathogens potentially transmitted by semen of the black variety of the Manchega sheep breed: Health constraints for conservation purposes. *Animal Reproduction Science*, **2014**, 149, 152-7 | 2.1 | 14 |
| 17 | Heterologous in vitro fertility evaluation of cryopreserved Iberian red deer epididymal spermatozoa with zona-intact sheep oocytes and its relationship with the characteristics of thawed spermatozoa. *Reproduction in Domestic Animals*, **2008**, 43, 293-298 | 1.6 | 14 |
| 16 | Reduced glutathione addition improves both the kinematics and physiological quality of post-thawed red deer sperm. *Animal Reproduction Science*, **2015**, 162, 73-9 | 2.1 | 11 |
| 15 | Effect of sex-sorting and cryopreservation on the post-thaw sperm quality of Iberian red deer spermatozoa. *Theriogenology*, **2017**, 89, 206-213 | 2.8 | 11 |
| 14 | Current status and potential of morphometric sperm analysis. *Asian Journal of Andrology*, **2016**, 18, 863-870 | 2.8 | 11 |
| 13 | Oxygen tension during in vitro oocyte maturation and fertilization affects embryo quality in sheep and deer. *Animal Reproduction Science*, **2020**, 213, 106279 | 2.1 | 9 |
| 12 | Genotypes of Coxiella burnetii in wildlife: disentangling the molecular epidemiology of a multi-host pathogen. *Environmental Microbiology Reports*, **2016**, 8, 708-714 | 3.7 | 9 |
| 11 | Free-radical production after post-thaw incubation of ram spermatozoa is related to decreased in vivo fertility. *Reproduction, Fertility and Development*, **2015**, 27, 1187-96 | 1.8 | 8 |

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| 10 | The Effect of Oxidative Stress on Thawed Bulk-Sorted Red Deer Sperm. *Reproduction in Domestic Animals*, **2016**, 51, 407-14 | 1.6 | 6 |
| 9 | Estrous sheep serum enables in ́vitro capacitation of ram spermatozoa while preventing caspase activation. *Theriogenology*, **2016**, 85, 351-60 | 2.8 | 5 |
| 8 | Beneficial Effects of Melatonin in the Ovarian Transport Medium on In Vitro Embryo Production of Iberian Red Deer (). *Animals*, **2020**, 10, | 3.1 | 4 |
| 7 | Improved cryopreservation protocol for Blanca-Celtib□ica buck semen collected by electroejaculation. *Cryobiology*, **2013**, 67, 251-7 | 2.7 | 4 |
| 6 | Oestrous sheep serum balances ROS levels to supply in vitro capacitation of ram spermatozoa. *Reproduction in Domestic Animals*, **2016**, 51, 743-50 | 1.6 | 4 |
| 5 | Cellular and Molecular Events that Occur in the Oocyte during Prolonged Ovarian Storage in Sheep. *Animals*, **2020**, 10, | 3.1 | 3 |
| 4 | Freezing Protocol Optimization for Iberian Red Deer () Epididymal Sperm under Field Conditions.. *Animals*, **2022**, 12, | 3.1 | 2 |
| 3 | Influence of foetal calf serum supplementation during in vitro embryo culture in Iberian red deer. *Reproduction in Domestic Animals*, **2019**, 54 Suppl 4, 69-71 | 1.6 | 1 |
| 2 | Selection of red deer spermatozoa with different cryoresistance using density gradients. *Reproduction in Domestic Animals*, **2016**, 51, 895-900 | 1.6 | 1 |
| 1 | Ovine sperm DNA oxidation quantification using an 8-OHdG immunodetection assay. *Reproduction in Domestic Animals*, **2019**, 54 Suppl 4, 59-64 | 1.6 | 0 |