

Anel Luis

List of Publications by Year in descending order

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92
papers

3,188
citations

101543

36
h-index

182427

51
g-index

92
all docs

92
docs citations

92
times ranked

1972
citing authors

#	ARTICLE	IF	CITATIONS
1	Probes and Techniques for Sperm Evaluation by Flow Cytometry. <i>Reproduction in Domestic Animals</i> , 2010, 45, 67-78.	1.4	148
2	Sperm Subpopulations in Iberian Red Deer Epididymal Sperm and Their Changes Through the Cryopreservation Process. <i>Biology of Reproduction</i> , 2005, 72, 316-327.	2.7	118
3	Effect of epididymis handling conditions on the quality of ram spermatozoa recovered post-mortem. <i>Theriogenology</i> , 2003, 60, 1249-1259.	2.1	109
4	Statistical Series: Opportunities and challenges of sperm motility subpopulation analysis. <i>Theriogenology</i> , 2011, 75, 783-795.	2.1	102
5	Effect of external cryoprotectants as membrane stabilizers on cryopreserved rainbow trout sperm. <i>Theriogenology</i> , 2001, 56, 623-635.	2.1	93
6	Use of chromatin stability assay, mitochondrial stain JC-1, and fluorometric assessment of plasma membrane to evaluate frozen-thawed ram semen. <i>Animal Reproduction Science</i> , 2004, 84, 121-133.	1.5	93
7	Factors influencing the success of vaginal and laparoscopic artificial insemination in churra ewes: a field assay. <i>Theriogenology</i> , 2005, 63, 1235-1247.	2.1	88
8	Comparison of two methods for obtaining spermatozoa from the cauda epididymis of Iberian red deer. <i>Theriogenology</i> , 2006, 65, 471-485.	2.1	81
9	Improvement Strategies in Ovine Artificial Insemination. <i>Reproduction in Domestic Animals</i> , 2006, 41, 30-42.	1.4	74
10	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.	2.1	74
11	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
12	The Application of Reproductive Technologies to Natural Populations of Red Deer. <i>Reproduction in Domestic Animals</i> , 2006, 41, 93-102.	1.4	68
13	Multivariate cluster analysis to study motility activation of <i>Solea senegalensis</i> spermatozoa: a model for marine teleosts. <i>Reproduction</i> , 2008, 135, 449-459.	2.6	64
14	Decay of sperm obtained from epididymes of wild ruminants depending on postmortem time. <i>Theriogenology</i> , 2005, 63, 24-40.	2.1	63
15	Field and in vitro assay of three methods for freezing ram semen. <i>Theriogenology</i> , 2003, 60, 1293-1308.	2.1	58
16	Influence of breed and age on morphometry and depth of inseminating catheter penetration in the ewe cervix: A postmortem study. <i>Theriogenology</i> , 2006, 66, 1876-1883.	2.1	58
17	Sublethal Damage during Cryopreservation of Rainbow Trout Sperm. <i>Cryobiology</i> , 1998, 37, 245-253.	0.7	52
18	DNA fragmentation assessment by flow cytometry and Sperm?Bos?Halomax (bright-field microscopy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 30, 88-98.	3.6	49

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19	Computational flow cytometry reveals that cryopreservation induces spermatosis but subpopulations of spermatozoa may experience capacitation-like changes. <i>Reproduction</i> , 2017, 153, 293-304.	2.6	48
20	Effect of the interval between estrus onset and artificial insemination on sex ratio and fertility in cattle: a field study. <i>Theriogenology</i> , 2004, 62, 1264-1270.	2.1	47
21	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.	2.1	47
22	Assessment of chromatin status (SCSA®) in epididymal and ejaculated sperm in Iberian red deer, ram and domestic dog. <i>Theriogenology</i> , 2006, 66, 1921-1930.	2.1	46
23	Sperm parameters on Iberian red deer: Electroejaculation and post-mortem collection. <i>Theriogenology</i> , 2008, 70, 216-226.	2.1	45
24	Post-thawing quality and incubation resilience of cryopreserved ram spermatozoa are affected by antioxidant supplementation and choice of extender. <i>Theriogenology</i> , 2015, 83, 520-528.	2.1	45
25	Seminal plasma improves cryopreservation of Iberian red deer epididymal sperm. <i>Theriogenology</i> , 2006, 66, 1847-1856.	2.1	44
26	Refrigerated storage of ram sperm in presence of Trolox and GSH antioxidants: Effect of temperature, extender and storage time. <i>Animal Reproduction Science</i> , 2014, 151, 137-147.	1.5	43
27	Seasonal Changes in Sperm Chromatin Condensation in Ram (<i>Ovis aries</i>), Iberian Red Deer (<i>Cervus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2006, 66, 1165-1172.	2.0	42
28	Season effect on genitalia and epididymal sperm from Iberian red deer, roe deer and Cantabrian chamois. <i>Theriogenology</i> , 2005, 63, 1857-1875.	2.1	41
29	Post mortem time and season alter subpopulation characteristics of Iberian red deer epididymal sperm. <i>Theriogenology</i> , 2005, 64, 958-974.	2.1	41
30	Pulse Doppler ultrasound as a tool for the diagnosis of chronic testicular dysfunction in stallions. <i>PLoS ONE</i> , 2017, 12, e0175878.	2.5	41
31	Cryopreservation of Iberian red deer (<i>Cervus elaphus hispanicus</i>) spermatozoa obtained by electroejaculation. <i>Theriogenology</i> , 2009, 71, 628-638.	2.1	40
32	Sperm concentration at freezing affects post-thaw quality and fertility of ram semen. <i>Theriogenology</i> , 2012, 77, 1111-1118.	2.1	40
33	Reduced glutathione and Trolox (vitamin E) as extender supplements in cryopreservation of red deer epididymal spermatozoa. <i>Animal Reproduction Science</i> , 2012, 135, 37-46.	1.5	40
34	Ultrastructural and cytochemical comparison between calf and cow oocytes. <i>Theriogenology</i> , 2001, 55, 1107-1116.	2.1	38
35	Microinjection of the antifreeze protein type III (AFPIII) in turbot (<i>Scophthalmus maximus</i>) embryos: Toxicity and protein distribution. <i>Aquaculture</i> , 2006, 261, 1299-1306.	3.5	37
36	Effect of Several Antioxidants on Thawed Ram Spermatozoa Submitted to 37°C up to Four Hours. <i>Reproduction in Domestic Animals</i> , 2012, 47, 907-914.	1.4	37

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37	Development of extender based on soybean lecithin for its application in liquid ram semen. <i>Theriogenology</i> , 2010, 74, 663-671.	2.1	36
38	The relationship between ram sperm head morphometry and fertility depends on the procedures of acquisition and analysis used. <i>Theriogenology</i> , 2011, 76, 1313-1325.	2.1	36
39	Ovum Pick-up in Sheep: a Comparison between Different Aspiration Devices for Optimal Oocyte Retrieval. <i>Reproduction in Domestic Animals</i> , 2006, 41, 106-113.	1.4	35
40	Effect of basic factors of extender composition on post-thawing quality of brown bear electroejaculated spermatozoa. <i>Theriogenology</i> , 2010, 74, 643-651.	2.1	35
41	Effects of cryopreservation on head morphometry and its relation with chromatin status in brown bear (<i>Ursus arctos</i>) spermatozoa. <i>Theriogenology</i> , 2008, 70, 1498-1506.	2.1	34
42	Specificity of the extender used for freezing ram sperm depends of the spermatozoa source (ejaculate,) Tj ETQq0 0,0,rgBT /Overlock 10	1.5	34
43	Caspase 3 Activity and Lipoperoxidative Status in Raw Semen Predict the Outcome of Cryopreservation of Stallion Spermatozoa. <i>Biology of Reproduction</i> , 2016, 95, 53-53.	2.7	32
44	Treatment of swine summer infertility syndrome by means of oxytocin under field conditions. <i>Theriogenology</i> , 1998, 49, 829-836.	2.1	31
45	Sperm Cryopreservation in Brown Bear (<i>Ursus arctos</i>): Preliminary Aspects. <i>Reproduction in Domestic Animals</i> , 2008, 43, 9-17.	1.4	29
46	Undiluted or extended storage of ram epididymal spermatozoa as alternatives to refrigerating the whole epididymes. <i>Animal Reproduction Science</i> , 2011, 126, 76-82.	1.5	28
47	Stallion spermatozoa surviving freezing and thawing experience membrane depolarization and increased intracellular Na ⁺ . <i>Andrology</i> , 2017, 5, 1174-1182.	3.5	28
48	ProAKAP4 as Novel Molecular Marker of Sperm Quality in Ram: An Integrative Study in Fresh, Cooled and Cryopreserved Sperm. <i>Biomolecules</i> , 2020, 10, 1046.	4.0	28
49	Current challenges in sheep artificial insemination: A particular insight. <i>Reproduction in Domestic Animals</i> , 2019, 54, 32-40.	1.4	27
50	Dimethyl sulfoxide influx in turbot embryos exposed to a vitrification protocol. <i>Theriogenology</i> , 2003, 60, 463-473.	2.1	26
51	Effect of a vitrification protocol on the lactate dehydrogenase and glucose-6-phosphate dehydrogenase activities and the hatching rates of Zebrafish (<i>Danio rerio</i>) and Turbot (<i>Scophthalmus</i>) Tj ETQq1 1 0,784314 rgBT /Overlock	1.5	26
52	How does the microbial load affect the quality of equine cool-stored semen?. <i>Theriogenology</i> , 2018, 114, 212-220.	2.1	23
53	Effect of storage method and extender osmolality in the quality of cryopreserved epididymal ram spermatozoa. <i>Animal Reproduction Science</i> , 2011, 129, 188-199.	1.5	22
54	Optimization of Glycerol Concentration and Freezing Rate in the Cryopreservation of Ejaculate From Brown Bear (<i>Ursus arctos</i>). <i>Reproduction in Domestic Animals</i> , 2012, 47, 105-112.	1.4	22

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55	Design and <i>in vivo</i> evaluation of two adapted catheters for intrauterine transcervical insemination in sheep. <i>Animal Reproduction Science</i> , 2012, 131, 153-159.	1.5	21
56	Flow cytometry in Spermatology: A bright future ahead. <i>Reproduction in Domestic Animals</i> , 2017, 52, 921-931.	1.4	21
57	Depletion of thiols leads to redox deregulation, production of 4-hydroxynonenal and sperm senescence: a possible role for GSH regulation in spermatozoa. <i>Biology of Reproduction</i> , 2019, 100, 1090-1107.	2.7	21
58	Swine summer infertility syndrome in north west Spain. <i>Veterinary Record</i> , 1996, 139, 93-94.	0.3	20
59	Incorporation of antifreeze proteins into zebrafish embryos by a non-invasive method. <i>Cryobiology</i> , 2008, 56, 216-222.	0.7	20
60	The addition of heat shock protein HSPA8 to cryoprotective media improves the survival of brown bear (<i>Ursus arctos</i>) spermatozoa during chilling and after cryopreservation. <i>Theriogenology</i> , 2013, 79, 541-550.	2.1	20
61	The antioxidant effects of soybean lecithin- or low-density lipoprotein-based extenders for the cryopreservation of brown-bear (<i>Ursus arctos</i>) spermatozoa. <i>Reproduction, Fertility and Development</i> , 2013, 25, 1185.	0.4	18
62	Multiparametric Study of Antioxidant Effect on Ram Sperm Cryopreservation—From Field Trials to Research Bench. <i>Animals</i> , 2021, 11, 283.	2.3	18
63	Quality of frozen-thawed semen in brown bear is not affected by timing of glycerol addition. <i>Theriogenology</i> , 2011, 75, 1561-1565.	2.1	17
64	Evaluation of Three Different Extenders for Use in Emergency Salvaging of Epididymal Spermatozoa from a Cantabric Brown Bear. <i>Reproduction in Domestic Animals</i> , 2011, 46, e85-90.	1.4	17
65	Evaluation of ram semen quality using polyacrylamide gel instead of cervical mucus in the sperm penetration test. <i>Theriogenology</i> , 2012, 77, 1575-1586.	2.1	17
66	Evaluation of the qualitative and quantitative effectiveness of three media of centrifugation (Maxifreeze, Cushion Fluid Equine, and PureSperm 100) in preparation of fresh or frozen-thawed brown bear spermatozoa. <i>Theriogenology</i> , 2012, 77, 1119-1128.	2.1	16
67	Laparoscopic surgery in a clinical case of seminoma in a cryptorchid dog. <i>Veterinary Record</i> , 1998, 142, 671-672.	0.3	15
68	Effects on brown bear (<i>Ursus arctos</i>) spermatozoa freezability of different extender and dilution ratios used for pre-freezing centrifugation. <i>European Journal of Wildlife Research</i> , 2011, 57, 259-266.	1.4	15
69	Effect of colloid (Androcoll-Bear, Percoll, and PureSperm) selection on the freezability of brown bear (<i>Ursus arctos</i>) sperm. <i>Theriogenology</i> , 2016, 85, 1097-1105.	2.1	15
70	Analysis of seminal plasma from brown bear (<i>Ursus arctos</i>) during the breeding season: Its relationship with testosterone levels. <i>PLoS ONE</i> , 2017, 12, e0181776.	2.5	13
71	Brown bear sperm double freezing: Effect of elapsed time and use of PureSperm® gradient between freeze-thaw cycles. <i>Cryobiology</i> , 2013, 67, 339-346.	0.7	12
72	Head morphology of ram spermatozoa is associated with their ability to migrate <i>in vitro</i> and correlates with fertility. <i>Reproduction, Fertility and Development</i> , 2016, 28, 1825.	0.4	11

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73	A simple flow cytometry protocol to determine simultaneously live, dead and apoptotic stallion spermatozoa in fresh and frozen thawed samples. <i>Animal Reproduction Science</i> , 2018, 189, 69-76.	1.5	11
74	Improving sperm banking efficiency in endangered species through the use of a sperm selection method in brown bear (<i>Ursus arctos</i>) thawed sperm. <i>BMC Veterinary Research</i> , 2017, 13, 200.	1.9	10
75	The percentage of spermatozoa lost during the centrifugation of brown bear (<i>Ursus arctos</i>) ejaculates is associated with some spermatozoa quality and seminal plasma characteristics. <i>Animal Reproduction Science</i> , 2012, 135, 113-121.	1.5	8
76	Spermatozoa recovery and post-thawing quality of brown bear ejaculates is affected for centrifugation regimes. <i>European Journal of Wildlife Research</i> , 2012, 58, 77-84.	1.4	8
77	Tolerance of brown bear spermatozoa to conditions of pre-freezing cooling rate and equilibration time. <i>Theriogenology</i> , 2014, 81, 1229-1238.	2.1	8
78	Use of commercial extenders and alternatives to prevent sperm agglutination for cryopreservation of brown bear semen. <i>Theriogenology</i> , 2014, 82, 469-474.	2.1	8
79	Extender osmolality, glycerol and egg yolk on the cryopreservation of epididymal spermatozoa for gamete banking of the Cantabric Chamois (<i>Rupicapra pyrenaica parva</i>). <i>Theriogenology</i> , 2019, 125, 109-114.	2.1	8
80	Sheep embryo cryopreservation by vitrification and conventional freezing. <i>Theriogenology</i> , 1994, 42, 327-338.	2.1	7
81	Redox cycling induces spermptosis and necrosis in stallion spermatozoa while the hydroxyl radical (OH•) only induces spermptosis. <i>Reproduction in Domestic Animals</i> , 2018, 53, 54-67.	1.4	7
82	Ultrastructural localization of lectin receptors in the preimplantation ovine embryo. <i>The Anatomical Record</i> , 1994, 240, 537-544.	1.8	6
83	Ram spermatozoa migrating through artificial mucus in vitro have reduced mitochondrial membrane potential but retain their viability. <i>Reproduction, Fertility and Development</i> , 2015, 27, 852.	0.4	6
84	Frequency of Semen Collection Affects Ram Sperm Cryoresistance. <i>Animals</i> , 2022, 12, 1492.	2.3	6
85	The Acidic Probe LysoSensor [®] is not Useful for Acrosome Evaluation of Cryopreserved Ram Spermatozoa. <i>Reproduction in Domestic Animals</i> , 2010, 45, 363-367.	1.4	5
86	Alternative procedures for the cryopreservation of brown bear ejaculates depending on the flexibility of the cooling period (5Å°C). <i>Cryobiology</i> , 2014, 69, 434-441.	0.7	5
87	Surgical correction of a canine preputial deformity. <i>Veterinary Record</i> , 1996, 138, 496-497.	0.3	4
88	Salvaging urospermic ejaculates from brown bear (<i>Ursus arctos</i>). <i>Animal Reproduction Science</i> , 2014, 150, 148-157.	1.5	4
89	Optimization of conditions for long-term prefreezing storage of brown bear sperm before cryopreservation. <i>Theriogenology</i> , 2015, 84, 1161-1171.	2.1	4
90	Centrifugal force assessment in ram sperm: identifying species-specific impact. <i>Acta Veterinaria Scandinavica</i> , 2021, 63, 42.	1.6	3

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91	The use of gelatine in long-term storage (up to 48Âhr) at 5Â°C preserves the pre-freezing and post-thawing quality of brown bear sperm. <i>Reproduction in Domestic Animals</i> , 2016, 51, 700-707.	1.4	2
92	Progesterone stimulates the long-distance migration of capacitated ram spermatozoa through viscous media under geotactic condition. <i>Theriogenology</i> , 2018, 118, 7-15.	2.1	2