

Felipe Brandão

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9109374/publications.pdf>

Version: 2024-02-01

117
papers

1,359
citations

393982

19
h-index

525886

27
g-index

117
all docs

117
docs citations

117
times ranked

1105
citing authors

#	ARTICLE	IF	CITATIONS
1	Three superovulation protocols for in vivo embryo production in Santa Inês sheep. <i>Ciencia Rural</i> , 2022, 52, .	0.3	3
2	Biostimulation with the ram effect increases the follicle recruitment, ovulatory diameter, and embryo viability rate in superovulated ewes. <i>Theriogenology</i> , 2022, 181, 140-146.	0.9	3
3	Ovarian steroids modulate the systemic inflammatory response OF COWS challenged with lipopolysaccharide (LPS) intrauterine infusion. <i>Theriogenology</i> , 2022, 182, 35-44.	0.9	0
4	Progestogen supplementation during superovulation leads to higher embryo viability and TGFB1 gene expression in sheep. <i>Animal Reproduction Science</i> , 2022, 238, 106938.	0.5	1
5	Exogenous progestogens differentially alter gene expression of immature cumulus-oocyte complexes in sheep. <i>Domestic Animal Endocrinology</i> , 2021, 74, 106518.	0.8	6
6	Administration of a single dose of 300 IU of human chorionic gonadotropin seven days after the onset of estrus improves pregnancy rate in dairy goats by an unknown mechanism. <i>Domestic Animal Endocrinology</i> , 2021, 74, 106579.	0.8	6
7	Addition of antifreeze protein type I or III to extenders for ram sperm cryopreservation. <i>Cryobiology</i> , 2021, 98, 194-200.	0.3	15
8	Effects of resveratrol in bull semen extender on post-thaw sperm quality and capacity for fertilization and embryo development. <i>Animal Reproduction Science</i> , 2021, 226, 106697.	0.5	9
9	Oviduct fluid during IVF moderately modulates polyspermy in in vitro-produced goat embryos during the non-breeding season. <i>Theriogenology</i> , 2021, 168, 59-65.	0.9	7
10	Artificial Long Estrus Protocols Administered Prior to Progesterone Increase Endometrial Uterocalin Expression in Anestrous Mares. <i>Journal of Equine Veterinary Science</i> , 2021, 103, 103669.	0.4	4
11	Response of rams to electroejaculation following the administration of oxytocin and cloprostenol with or without GnRH. <i>Theriogenology</i> , 2021, 173, 32-36.	0.9	1
12	Cardiorespiratory and hemogasometric effects of epidural ketamine and its associations with morphine and xylazine in sheep. <i>Semina:Ciencias Agrarias</i> , 2021, 42, 241-254.	0.1	0
13	Exogenous progestogen does not affect first-wave follicle populations and oocyte quality during ovarian stimulation with FSH in sheep. <i>Domestic Animal Endocrinology</i> , 2020, 72, 106369.	0.8	2
14	Chromium supplementation improves glucose metabolism and vaginal temperature regulation in Girolando cows under heat stress conditions in a climatic chamber. <i>Tropical Animal Health and Production</i> , 2020, 52, 1661-1668.	0.5	12
15	Early resynchronization protocols for goats: Progestogens can be used prior to an early pregnancy diagnosis without affecting corpus luteum functionality. <i>Reproduction in Domestic Animals</i> , 2020, 55, 1655-1659.	0.6	3
16	Factors affecting pregnancy rates for goat embryos recovered and transferred by transcervical route. <i>Small Ruminant Research</i> , 2020, 192, 106215.	0.6	8
17	Use of oxytocin to attain cervical dilation for transcervical embryo transfer in sheep. <i>Reproduction in Domestic Animals</i> , 2020, 55, 1446-1454.	0.6	4
18	Ovarian activity in dairy Saanen goats subjected to a short-term ovulation induction protocol and a single injection of leirelin (GnRH analog) given 28 h or 34 h after progestin pre-treatment. <i>Small Ruminant Research</i> , 2020, 191, 106214.	0.6	2

#	ARTICLE	IF	CITATIONS
19	Luteotropic effects of human chorionic gonadotropin administered 7.5 days after synchronous estrous induction in Morada Nova ewes. <i>Animal Reproduction Science</i> , 2020, 223, 106644.	0.5	5
20	Use of two cloprostenol administrations 11.5 days apart efficiently synchronizes oestrus in photostimulated multiparous dairy goats in the non-breeding season. <i>Reproduction in Domestic Animals</i> , 2020, 55, 965-973.	0.6	5
21	Gene expression patterns of in vivo-derived sheep blastocysts is more affected by vitrification than slow freezing technique. <i>Cryobiology</i> , 2020, 95, 110-115.	0.3	16
22	Repeated trans-cervical embryo recoveries in Santa Inês ewes subjected to short- or long-term superovulatory treatment regimens. <i>Animal Reproduction Science</i> , 2020, 217, 106469.	0.5	13
23	Transcervical vs. laparotomy embryo collection in ewes: The effectiveness and welfare implications of each technique. <i>Theriogenology</i> , 2020, 153, 112-121.	0.9	18
24	Successive in vivo embryo production in Santa Inês sheep. <i>Animal Production Science</i> , 2020, 60, 497.	0.6	14
25	Idade e puberdade e características reprodutivas de novilhas mestiças F1 Holandês x Gir com fenótipos divergentes para consumo alimentar residual. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2020, 72, 1093-1101.	0.1	2
26	Chromium supplementation modulates glucose metabolism in heat-stressed Girolando dairy cows. <i>Semina: Ciências Agrárias</i> , 2020, 41, 2445-2452.	0.1	0
27	Cervical transposition test using Hegar dilator at oestrus as a tool to select ewes for transcervical embryo collection. <i>Reproduction in Domestic Animals</i> , 2019, 54, 126-128.	0.6	7
28	Milk production and composition, food consumption, and energy balance of postpartum crossbred Holstein-Gir dairy cows fed two diets of different energy levels. <i>Tropical Animal Health and Production</i> , 2019, 51, 65-71.	0.5	5
29	Mini-percoll gradient may be used for frozen-thawed sperm selection in sheep. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2019, 71, 455-463.	0.1	3
30	Bovine oviductal fluid (bOF) collected in the follicular or luteal phase of the estrous cycle exerts similar effects on ram sperm kinematics and acrosome reactivity in vitro. <i>Reproductive Biology</i> , 2019, 19, 279-286.	0.9	1
31	Use of human intravaginal tampon embedded with natural progesterone induces synchronous estrus in Santa Inês ewes. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2019, 71, 345-348.	0.1	2
32	Epidemiological survey and risk factors associated with hydrometra in dairy goat herds. <i>Small Ruminant Research</i> , 2019, 178, 79-84.	0.6	4
33	Effect of different concentrations of l-carnitine in extender for semen cryopreservation in sheep. <i>Cryobiology</i> , 2019, 89, 104-108.	0.3	19
34	Productive performance and reproductive characteristics of Morada Nova male lambs fed with high-energy diet. <i>Tropical Animal Health and Production</i> , 2019, 51, 2481-2491.	0.5	8
35	Hormonal protocols for early resynchronization of ovulation in ewes: The use of progestagens, eCG, and inclusion of early pregnancy diagnosis with color Doppler ultrasound. <i>Theriogenology</i> , 2019, 133, 113-118.	0.9	16
36	Expression of interleukins 6 and 10 and population of inflammatory cells in the equine endometrium: diagnostic implications. <i>Molecular Biology Reports</i> , 2019, 46, 2485-2491.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Combined treatment with oestradiol benzoate, cloprostenol and oxytocin permits cervical dilation and nonsurgical embryo recovery in ewes. <i>Reproduction in Domestic Animals</i> , 2019, 54, 118-125.	0.6	21
38	Environmental effects on collared peccaries (<i>Pecari tajacu</i>) serum testosterone, testicular morphology, and semen quality in the Caatinga biome. <i>Theriogenology</i> , 2019, 126, 286-294.	0.9	5
39	Early luteal development in Santa Inês ewes superovulated with reduced doses of porcine follicle-stimulating hormone. <i>Reproduction in Domestic Animals</i> , 2019, 54, 456-463.	0.6	5
40	Differences in the thermal sensitivity and seminal quality of distinct ovine genotypes raised in tropical conditions. <i>Theriogenology</i> , 2019, 123, 123-131.	0.9	11
41	Reproductive seasonality in Saanen goats kept under tropical conditions. <i>Tropical Animal Health and Production</i> , 2019, 51, 345-353.	0.5	11
42	The influence of a diet based on flaxseed, an omega-3 source, during different developmental periods, on the blood pressure of rats submitted to stress. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019, 32, 1516-1522.	0.7	3
43	Caracterização Biométrica dos Caprinos da República de Cabo Verde. <i>Archivos De Zootecnia</i> , 2019, 68, 384-394.	0.2	3
44	Goat incubator: Can bovine oocytes be matured in the uterine horn of a goat?. <i>Semina: Ciências Agrárias</i> , 2019, 40, 3789.	0.1	1
45	Influência da dificuldade de inseminação, temperamento e cortisol plasmático sobre a taxa de concepção de vacas e novilhas da raça Nelore inseminadas em tempo fixo. <i>Arquivo Brasileiro De Medicina Veterinária E Zootecnia</i> , 2019, 71, 1459-1468.	0.1	0
46	Anti-Müllerian hormone and antral follicle count are more effective for selecting ewes with good potential for in vivo embryo production than the presence of FecG mutation or eCG pre-selection tests. <i>Theriogenology</i> , 2018, 113, 146-152.	0.9	22
47	Likelihood of pregnancy after the transfer of embryos derived from follicle aspiration and in vitro embryo production sessions with different relative efficiencies. <i>Animal Reproduction Science</i> , 2018, 193, 165-170.	0.5	3
48	Assessing the usefulness of B-mode and colour Doppler sonography, and measurements of circulating progesterone concentrations for determining ovarian responses in superovulated ewes. <i>Reproduction in Domestic Animals</i> , 2018, 53, 742-750.	0.6	19
49	Hydrosalpinx in dairy goats: Occurrence, ultrasound diagnosis, macro- and microscopic characterization. <i>Small Ruminant Research</i> , 2018, 160, 5-11.	0.6	2
50	Thermoregulatory responses and reproductive traits in composite beef bulls raised in a tropical climate. <i>International Journal of Biometeorology</i> , 2018, 62, 1575-1586.	1.3	22
51	Early pregnancy diagnosis in ewes by subjective assessment of luteal vascularisation using colour Doppler ultrasonography. <i>Theriogenology</i> , 2018, 106, 247-252.	0.9	27
52	Colour Doppler ultrasound imaging as a laparoscopy substitute to count corpora lutea in superovulated sheep. <i>Reproduction in Domestic Animals</i> , 2018, 53, 266-269.	0.6	12
53	Administration of cloprostenol and oxytocin before electroejaculation in goat bucks reduces the needed amount of electrical stimulation without affecting seminal quality. <i>Theriogenology</i> , 2018, 107, 1-5.	0.9	13
54	L-carnitine supplementation during vitrification or warming of in vivo -produced ovine embryos does not affect embryonic survival rates, but alters CrAT and PRDX1 expression. <i>Theriogenology</i> , 2018, 105, 150-157.	0.9	14

#	ARTICLE	IF	CITATIONS
55	Use of two doses of cloprostenol in different intervals for estrus synchronization in hair sheep under tropical conditions. <i>Tropical Animal Health and Production</i> , 2018, 50, 427-432.	0.5	8
56	Relationship between follicular dynamics and oocyte maturation during in vitro culture as a non-invasive sign of caprine oocyte meiotic competence. <i>Theriogenology</i> , 2018, 107, 95-103.	0.9	22
57	Cervical relaxation for non-surgical uterus access in Santa Inês ewes. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2018, 70, 1671-1679.	0.1	9
58	Freezing goat embryos at different developmental stages and quality using ethylene glycol and a slow cooling rate. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2018, 70, 1489-1496.	0.1	18
59	Parâmetros reprodutivos após indução de estro com diferentes intervalos de permanência do dispositivo vaginal em cabras Toggenburg acíclicas. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2018, 70, 773-778.	0.1	3
60	Supplementation of 17 β -estradiol and progesterone in the co-culture medium of bovine oviductal epithelial cells and ovine spermatozoa reduces the sperm kinematics and capacitation. <i>Reproductive Biology</i> , 2018, 18, 368-379.	0.9	4
61	Seroprevalence of anti-Neospora caninum antibodies in sheep from the rapidly expanding flock of Rio de Janeiro, Brazil. <i>Veterinary Parasitology: Regional Studies and Reports</i> , 2018, 14, 59-62.	0.3	4
62	Dose and administration protocol for FSH used for ovarian stimulation affect gene expression in sheep cumulus-oocyte complexes. <i>Reproduction, Fertility and Development</i> , 2018, 30, 1234.	0.1	14
63	Hydrometra in dairy goats: Ultrasonic variables and therapeutic protocols evaluated during the reproductive season. <i>Animal Reproduction Science</i> , 2018, 197, 203-211.	0.5	8
64	Accuracy of assessment of luteal morphology and luteal blood flow for prediction of early pregnancy in goats. <i>Theriogenology</i> , 2018, 121, 104-111.	0.9	13
65	Effects of hCG administration on accessory corpus luteum formation and progesterone production in estrous-induced nulliparous Santa Inês ewes. <i>Animal Reproduction</i> , 2018, 15, 135-139.	0.4	11
66	Protected fatty acid supplementation during estrus synchronization treatment on reproductive parameters of dairy goats. <i>Animal Science Journal</i> , 2017, 88, 254-258.	0.6	6
67	Luteal dynamic and functionality assessment in dairy goats by luteal blood flow, luteal biometry, and hormonal assay. <i>Theriogenology</i> , 2017, 95, 118-126.	0.9	24
68	Reproductive parameters of dairy goats after receiving two doses of d-cloprostenol at different intervals. <i>Animal Reproduction Science</i> , 2017, 181, 16-23.	0.5	16
69	Evaluation of cervical mucus and reproductive efficiency of seasonally anovular dairy goats after short-term progestagen-based estrous induction protocols with different gonadotropins. <i>Reproductive Biology</i> , 2017, 17, 363-369.	0.9	21
70	Thermoregulation of male sheep of indigenous or exotic breeds in a tropical environment. <i>Journal of Thermal Biology</i> , 2017, 69, 302-310.	1.1	33
71	Effect of increasing amounts of milk replacer powder added to whole milk on postweaning performance, reproduction, glucose metabolism, and mammary fat pad in dairy heifers. <i>Journal of Dairy Science</i> , 2017, 100, 8967-8976.	1.4	3
72	Reproductive features and use of an anti-inflammatory drug in estrus-induced dairy goats artificially inseminated in a standing position with cervix immobilization. <i>Reproductive Biology</i> , 2017, 17, 268-273.	0.9	16

#	ARTICLE	IF	CITATIONS
73	Effect of different hormonal combinations on follicular wave emergence and superovulatory response in sheep. <i>Theriogenology</i> , 2017, 103, 24-29.	0.9	11
74	Serum testosterone, sperm quality, cytological, physicochemical and biochemical characteristics of the prostatic fraction of dogs with prostatomegaly. <i>Reproduction in Domestic Animals</i> , 2017, 52, 998-1003.	0.6	13
75	Vascularização uterina de fêmeas prenhes de jumento e de garanhão monitoradas por ultrassonografia Doppler. <i>Pesquisa Veterinária Brasileira</i> , 2017, 37, 877-882.	0.5	5
76	Qualitative and quantitative analysis of bacteria from vaginitis associated with intravaginal implants in ewes following estrus synchronization. <i>Ciencia Rural</i> , 2016, 46, 632-636.	0.3	14
77	Energy supplementation in Santa Inês sheep subjected to estrus induction treatment. <i>Semina: Ciências Agrárias</i> , 2016, 37, 145.	0.1	1
78	Pre-selection Test to Identify High Responder Donor Goats. <i>Reproduction in Domestic Animals</i> , 2016, 51, 386-391.	0.6	6
79	Serum profile of cytokines interferon gamma and interleukin-10 in ewes subjected to artificial insemination by cervical retraction. <i>Theriogenology</i> , 2016, 85, 1262-1266.	0.9	2
80	Nonsurgical embryo recovery and transfer in sheep and goats. <i>Theriogenology</i> , 2016, 86, 144-151.	0.9	43
81	Accelerated follicle growth during the culture of isolated caprine preantral follicles is detrimental to follicular survival and oocyte meiotic resumption. <i>Theriogenology</i> , 2016, 86, 1530-1540.	0.9	14
82	Efficiency of different hormonal treatments for estrus synchronization in tropical Santa Inês sheep. <i>Tropical Animal Health and Production</i> , 2016, 48, 545-551.	0.5	21
83	Balance of insulin and FSH concentrations improves the in vitro development of isolated goat preantral follicles in medium containing GH. <i>Animal Reproduction Science</i> , 2016, 165, 1-10.	0.5	32
84	Potential role for GnRH in the synchronization of follicular emergence before the superovulatory Day 0 protocol. <i>Domestic Animal Endocrinology</i> , 2016, 54, 10-14.	0.8	23
85	Colour Doppler Ultrasonography as a Tool to Assess Luteal Function in Santa Inês Ewes. <i>Reproduction in Domestic Animals</i> , 2015, 50, 643-650.	0.6	34
86	Presence of leptospire on genital tract of mares with reproductive problems. <i>Veterinary Microbiology</i> , 2015, 179, 264-269.	0.8	26
87	Reproductive performance, metabolic and hormonal profiles of Santa Inês ewes in winter and summer under tropical conditions. <i>Tropical Animal Health and Production</i> , 2015, 47, 627-631.	0.5	4
88	Comparison of different methods of goat sperm selection and capacitation for optimization of assisted reproductive technologies. <i>Small Ruminant Research</i> , 2015, 127, 44-49.	0.6	8
89	Viable offspring after successful non-surgical embryo transfer in goats. <i>Arquivo Brasileiro De Medicina Veterinária E Zootecnia</i> , 2014, 66, 613-616.	0.1	14
90	Is the Santa Inês sheep a typical non-seasonal breeder in the Brazilian Southeast?. <i>Tropical Animal Health and Production</i> , 2014, 46, 1533-1537.	0.5	22

#	ARTICLE	IF	CITATIONS
91	Comparison of Conventional Freezing and Vitrification with Dimethylformamide and Ethylene Glycol for Cryopreservation of Ovine Embryos. <i>Reproduction in Domestic Animals</i> , 2014, 49, 839-844.	0.6	13
92	Outbreak of <i>Bluetongue virus</i> serotype 4 in dairy sheep in Rio de Janeiro, Brazil. <i>Journal of Veterinary Diagnostic Investigation</i> , 2014, 26, 567-570.	0.5	19
93	Changes in the vaginal flora of goats following a short-term protocol of oestrus induction and synchronisation with intravaginal sponges as well as their antimicrobial sensitivity. <i>Small Ruminant Research</i> , 2013, 113, 162-166.	0.6	13
94	Progestin-impregnated intravaginal sponges for estrus induction and synchronization influences on goats vaginal flora and antimicrobial susceptibility. <i>Animal Reproduction Science</i> , 2013, 142, 71-74.	0.5	15
95	Hormonal treatment of dairy goats affected by hydrometra associated or not with ovarian follicular cyst. <i>Small Ruminant Research</i> , 2013, 111, 104-109.	0.6	18
96	Short, medium or long-term hormonal treatments for induction of synchronized estrus and ovulation in Saanen goats during the nonbreeding season. <i>Revista Brasileira De Zootecnia</i> , 2013, 42, 168-173.	0.3	22
97	Reproductive parameters of dairy goats submitted to estrus synchronization with prostaglandin F2± associated or not to hCG at estrous onset. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2013, 65, 1585-1592.	0.1	8
98	<i>Toxoplasma gondii</i> in the sheep industry: a global overview and the situation in Brazil. <i>Revista Brasileira De Ciªncia Veterinªria</i> , 2013, 20, 179-188.	0.0	5
99	Semen cryopreservation protocols of Mangalarga Marchador stallions. <i>Revista Brasileira De Zootecnia</i> , 2012, 41, 1989-1995.	0.3	7
100	Effects of GnRH administration on ovulation and fertility in ewes subjected to estrous synchronization. <i>Revista Brasileira De Zootecnia</i> , 2012, 41, 1412-1418.	0.3	30
101	Use of long-acting progesterone to acyclic embryo recipient mares. <i>Revista Brasileira De Zootecnia</i> , 2012, 41, 607-611.	0.3	10
102	Leptospirosis as the most frequent infectious disease impairing productivity in small ruminants in Rio de Janeiro, Brazil. <i>Tropical Animal Health and Production</i> , 2012, 44, 773-777.	0.5	43
103	Reproductive parameters of Santa Inªs ewes submitted to short-term treatment with re-used progesterone devices. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2012, 64, 333-340.	0.1	19
104	Autoclaved, previously used intravaginal progesterone devices induces estrus and ovulation in anestrous Toggenburg goats. <i>Animal Reproduction Science</i> , 2011, 129, 50-55.	0.5	28
105	Assessment of luteal function in goats by ultrasonographic image attribute analysis. <i>Small Ruminant Research</i> , 2010, 94, 176-179.	0.6	13
106	Luteal dynamics in goats: morphological and endocrine features. <i>Revista Brasileira De Zootecnia</i> , 2010, 39, 1937-1942.	0.3	11
107	Peso e condiªªo corporal, contagem de OPG e perfil metab³lico sanguªneo de ovelhas da raªa Santa Inªs no periparto, criadas na regiªo da Baixada Litorªnea do Estado do Rio de Janeiro. <i>Revista Brasileira De Ciªncia Veterinªria</i> , 2010, 17, 77-82.	0.0	10
108	Prevalence and antimicrobial susceptibility of vaginal bacteria from ewes treated with progestin-impregnated intravaginal sponges. <i>Small Ruminant Research</i> , 2009, 81, 182-184.	0.6	33

#	ARTICLE	IF	CITATIONS
109	Comparaç�o de diferentes t�cnicas de sincronizaç�o da emerg�ncia da onda folicular visando a superovulaç�o em bovinos. Revista Brasileira De Ci�ncia Veterin�ria, 2009, 16, 119-123.	0.0	1
110	Desempenho de bezerros filhos de vacas F1 Holand�s Zebu submetidas a diferentes sistemas de alimentaç�o e manejo. Revista Brasileira De Ci�ncia Veterin�ria, 2009, 16, 68-72.	0.0	0
111	Detection of Leptospira spp. in semen and vaginal fluids of goats and sheep by polymerase chain reaction. Theriogenology, 2008, 69, 837-842.	0.9	80
112	Influ�ncia da presen�a do bezerro no momento da ordenha sobre o desempenho reprodutivo de vacas mesti�as Holand�s-Zebu. Arquivo Brasileiro De Medicina Veterin�ria E Zootecnia, 2006, 58, 530-536.	0.1	1
113	Influ�ncia da freq�ncia de ordenhas di�rias sobre a efici�ncia produtiva de vacas mesti�as Holand�s-Zebu e o desempenho dos seus bezerros. Revista Brasileira De Zootecnia, 2006, 35, 428-434.	0.3	4
114	Indu�o do estro no p�s-parto em vacas prim�paras Holand�s-Zebu. Arquivo Brasileiro De Medicina Veterin�ria E Zootecnia, 2005, 57, 476-484.	0.1	1
115	Efeito da concentraç�o esperm�tica e do n�mero de insemina�es artificiais sobre a fertilidade de �guas inseminadas com s�men fresco dilu�do. Arquivo Brasileiro De Medicina Veterin�ria E Zootecnia, 2003, 55, 61-67.	0.1	2
116	Efeito do intervalo das duas �ltimas insemina�es sobre a fertilidade de �guas inseminadas com s�men fresco dilu�do. Revista Brasileira De Zootecnia, 2002, 31, 1143-1149.	0.3	3
117	Reproductive performance and luteal function of Santa Ines ewes inseminated by cervical retraction with fresh or frozen semen. Revista Brasileira De Saude E Producao Animal, 0, 21, .	0.3	1