



## III International Symposium on Animal Biology of Reproduction (ISABR 2010)



### Focus on Epigenetics

October 22-24, 2010, Águas de São Pedro, SP, Brazil

#### Poster Session

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#### General poster information

Posters will be on display on the Salão Nobre from Friday, Oct. 22 to Sunday, Oct. 24.

Posters on Sessions I, II and III should be mounted Oct. 22<sup>nd</sup>, Oct. 23<sup>rd</sup> and Oct. 24<sup>th</sup>, respectively, from 07:30 to 08:30 AM.

All posters should be removed each evening by the end of the last Session.

#### Poster abstracts presentation

**Poster Session I - October 22, Friday, from 10:50 to 11:50 - Abstract 001 to 044**

#### Female reproductive tract

001. **Uranium effect on pregnant female rats** - Santos WA, Arruda Neto JDT, Pinheiro DM, Nogueira GP.
002. **Fixed-time artificial insemination (FTAI) in *Bubalus bubalis* by employing a modified Ovsynch protocol** - Weiss RR, Dalla Costa FP, Frares LF, Muradás PR, Abreu RA; Green KT.
003. **The effect of Leukemia Inhibitory Factor on the activation of goat preantral follicles *in vitro*** - Nóbrega Jr JE, Figueiredo JR, Pereira AM, Pereira GR, Gonçalves PBD, Oliveira JF.
004. **The NADPH oxidase complex in human uterine leiomyomas** - Mesquita FS, Nowak RA.
005. **Effect of flunixin meglumine, recombinant bovine somatotropin and/or human chorionic gonadotropin in reducing embryo mortality in nelore cows (*Bos taurus indicus*)** - Perdigão A, Rosseti RC, Nogueira GP, Sá Filho M, Binelli M, Machado R, Membrive CMB.
006. **Somatic cells proliferation in the sexually mature bullfrog testis (*Lithobates catesbeianus*)** - Assis LHC, Segatelli TM, Mendes AC, França LR.
007. **Masculinization of female gerbil by exposure to testosterone** - Biancardi MF, Perez APS, Falleiros Jr LR, Góes RM, Santos FCA, Vilamaior PSL, Taboga SR.
008. **Angiotensin II profile and mRNA encoding RAS (Renin-Angiotensin System) proteins during bovine follicular wave** - Ferreira R, Gasperin BG, Santos JT, Rovani MT, Oliveira JF, Reis AM, Santos RAS, Gonçalves PBD.

#### Male reproductive tract

009. **High-fat diet impairs the sperm production in rat** - Pinto ME, Reame V, Silva VRR, Scarano WR, Ribeiro DL, Taboga SR, Góes RM.
010. **Sterilization of dogs with intratesticular injection of a zinc-based solution: histopathological evaluation of acute and chronic phase** - Silva FLM, Brito LT, Muller PM, Araújo B, Sá MJC, Silva Júnior VA, Oliveira ECS.
011. **Gene expression of canine prostate specific esterase (CPSE), prostatic acid phosphatase (PAP) and prostate specific antigen (PSA) in dogs** - Gadelha CRF, Catunda AG, Kamimura M, Viana D, Magalhães DO, Tomé A, Cunha GM, Vicente WRR.
012. **Mast cells and ethanol: interactions in the prostate, epididymis and testis of UChB rats (10% ethanol voluntary intake)** - Mendes LO, Amorim JPA, Teixeira GR, Chuffa LGA, Fioruci BA, Pimentel TA, Mello-Júnior W, Padovani CR, Pereira S, Martinez M, Pinheiro PFF, Oliani SM, Martinez FE.



013. **Diet influence on male reproductive system of Morada Nova rams** - Lima ICS, Andrade CR, Oliveira RV, Menezes ESB, van Tilburg MF, Andrade IRA, Cândido MJD, Campos ACN, Martins JAM, Souza CEA, Moura AAA.
014. **The effect of dexamethasone on bull fertility** - Treml TE, Weiss RR, Muradás PR, Kozicki LE, Green KT, Abreu RA.
015. **Effects of electromagnetic field on rat testicular development: histomorphometric analysis** - Tenório BM, Morais RN, Nogueira RA, Silva Junior VA.
016. **Profile SDS-PAGE of seminal plasma in Brangus and Brown-Swiss bulls** - Chacur MGM, Ruiz ACL, Guaberto LM, Sirchia FP.
017. **Testicular degeneration induced by electromagnetic fields in rats: light and electron microscopy study** - Tenório BM, Peixoto CA, Nogueira RA, Silva Junior VA.
018. **Electrophoretic characterization of Morada Nova rams seminal plasma heparin-binding proteins** - Martins JAM, Souza CEA, Silva FDA, Rêgo JPA, Oliveira JTA, Moura AAA.
019. **The collared peccary (*Tayassu tajacu*) as a new experimental model to investigate the spermatogonial stem cells niche** - Campos-Jr PHA, Costa GMJ, Lacerda SMSN, França LR.
020. **LIF affects the kinetics of bovine type A spermatogonia *in vitro*** - Aponte PM, de Rooij DG.
021. **Seasonal effect on semen quality in teratospermic domestic cats in the northern hemisphere** - Martins MIM, Fontaine C, Mir F, Vannier F, Fontaine E, Desbois C, Fontbonne A.
022. **Somatic index of different testicular components in dogs from puberty to senility** - Mascarenhas RM, Lanna LL, Paula TAR, Marques Júnior AP.
023. **Delta-like homolog I (Dlk1) is a novel marker for prepubertal Sertoli cells** - Segatelli TM, Garcia T, França LR, Hofmann MC.
024. **Stereological investigation of the adult nude mice testis** - Oliveira CFA, Avelar GF, França LR.
025. **Obesity increases FGF content and led to stromal hypertrophy and premalignant lesions on the rat ventral prostate** - Ribeiro DL, Pinto ME, Taboga SR, Góes RM.
026. **Effects of Inducible Nitric Oxide Synthase (iNOS) deficiency on postnatal testis development in mice** - Lara NLM, Auharek SA, França LR.
027. **Influence of progesterone and its interactions with estrogen on the Mongolian Gerbil (*Meriones unguiculatus*) male prostate** - Fochi RA, Santos FCA, Vilamaior PSL, Falleiros Jr LR, Taboga SR.

#### **Regulation of reproductive process**

028. **Ovarian function after induction of ovulation and gonadotrophic supplementation of overconditioned Nelore cows (*Bos taurus indicus*)** - Machado R, Bergamaschi MA, Figueiredo RA, Binelli M.
029. **Characterization of MAS receptor and ACE2 expression in granulosa cells of bovine preovulatory follicles** - Santos JT, Gasperin BG, Ferreira R, Barreta MH, Martins LR, Oliveira JFC, Reis AM, Gonçalves PBD.
030. **Expression of Grb10 and Grb14 mRNA in bovine cumulus-oocyte complexes from follicles at different stages of development** - Rosa PRA, Bohrer RC, Ludke CA, Ferreira R, Bordignon V, Oliveira JFC, Gonçalves PBD.
031. **Cat sterilization using a zinc-based solution by intratesticular administration: preliminary results** - Moura MRP, Mascarenhas RM, Lanna LL, Xavier PR, Marques Júnior AP, Oliveira ECS, Melado RWC.
032. **Effect of vitamins A and E administration on oocyte production and early development of bovine embryos** - Evangelista JJF, Souza CEA, Moraes MEA, Moura AAA.



033. **Expression of BMP15 receptors in bovine granulosa cells of dominant and subordinate follicles** - Gasperin BG, Glanzner WG, Ferreira R, Santos JT, Buratini Jr J, Oliveira JF, Gonçalves PBD.
034. **Effects of different temperatures on Leydig cells and spermatogenesis** - Costa GMJ, Rezende-Neto JV, Lacerda SMSN, Campos-Jr PHA, França LR.
035. **Estrogenization of gerbil prostate during development is a predisposing factor to lesions in male and female adult** - Perez APS, Biancardi MF, Santos FCA, Falleiros-Jr LR, Taboga SR.
036. **The expression of Grb10 and Grb14 during antral follicle development in cattle** - Bohrer RC, Andrade Neto O, Rosa PRA, Ferreira R, Bordignon V, Oliveira JFC, Gonçalves PBD.
037. **Concentration of tbars in holstein cattle follicular fluid during the summer and the winter** - Ferreira RM, Nichi M, Ayres H, Ferraz ML, Araújo AB, Chiaratti MR, Rodrigues CA, Meirelles FV, Baruselli PS.
038. **Uterine inflammatory response after artificial insemination with different quality semen evaluated by combinations of fluorescent probes in equines** - Pinaffi FLV, Silva LA, Alonso MA, Andrade AFC, Arruda RP, Zafallon FG, Celeghini ECC.
039. **Evaluation of estrus behavioral and ovulatory dynamics of Toggenburg goats during the reproductive transition season** - Nascimento PMP, Oliveira AP, Brandão FZ, Viana JHM, Bruschi JH, Souza JMG, Fonseca JF.
040. **Reproductive isolation as the key for chromosome speciation in Red Brocket Deer (*Mazama americana*)** - Salviano MB, Cursino MS, Santos EZ, Abril VV, Duarte JMB.
041. **Characterization of serum levels of 17 $\beta$ -estradiol and progesterone in human induced labor with dinoprostone during late gestation** - Konopka CK, Pereira AM, Beltrame PHI, Morais EN, Lovatto MEC, Ferreira R, Oliveira JFC, Mello CF.
042. **COX-2 activates MAPKs which are responsible for the lifespan of corpus luteum in bovine** - Ferreira MR, Machado PA, Murgas LDS, Araújo EG.
043. **Production of GDF9 and BMP15 bovine hormones in homologue culture system** - Paulini F, Ferreira AR, Moura MT, Rua PJS, Franco MM, Melo EO.
044. **Brain pathways that mediate the 'female effect' in sheep** - Jorre de St Jorre T, Machado TMM, Hawken PAR, Esmaili T, Martin GB.

**Poster Session II - October 23, Saturday, from 09:50 to 10:50 - Abstract 045 to 081**

**Embryo, Placenta and Pregnancy**

045. **The presence of splice variants of prostaglandin transporter protein (PGT) in equine endometrium** - Nascimento J, Fukumasu H, Alonso MA, Andrade AFC, Meirelles FV, Membrive CB, Binelli M, Arruda RP.
046. **Embryo-fetal development in agoutis by ultrasound** - Sousa FCA, Alves FR, Bezerra DO, Machado Junior AAN, Conde Junior AM, Carvalho YKP, Carvalho MAM.
047. **Random versus imprinted X-inactivation in human placentas** - Araújo A, Araujo FM, Duarte G, Coelho K, Marcondes CR, Ramos ES.
048. **Phenazine ethosulfate effect in the development and lipid content of *in vitro* produced bovine embryos** - Sudano MJ, Paschoal DM, Rascado TS; Magalhães LCO, Crocomo LF, Lima-Neto JF, Machado R, Landim-Alvarenga FC.
049. **Volumetric proportion of placentome structural components of Nellore cow throughout gestation: preliminary results** - Xavier PR, Leão RAC, Silva PVDO, Marques Junior AP.
050. **New variants in the imprinted CDKN1C gene** - Soares MR, Araujo FM, Duarte G, Kaneto CM, Silva Junior WA, Ramos ES.



051. **Morphology of 50 day postcoitum agouti fetuses** - Forte EAM, Bezerra DO, Ferraz MS, Conde Júnior AM, Cabral RM, Pessoa GT, Assis Neto AC, Carvalho MAM.
052. **Embryo production and GLUT-1 expression in superovulated goats fed with detoxified castor bean meal** - Arruda IJ, Rondina D, Araújo AA, Adrião M, Silva LM, Rodrigues FV, Oliveira CHA, Sousa MWP, Silva AM.
053. **TSPX and SRY expression in bovine preimplantation embryos** - Takeuchi PL, Rios AFL, Araújo A, Galerani MAV, Lôbo RB, Vila RA, Elias FP, Ramos ES.
054. **CDKN1C gene expression in bovine blastocysts and oocytes** - Miranda-Furtado CL, Magalhães HR, Rios AFL, Elias FP, Vila RA, Galerani MAV, Lôbo RB, Ramos ES.
055. **A novel, objective methodology for gross morphological classification of placentomes in the bovine placenta** - Nicolau SS, Rici REG, Facciotti PR, Miglino MA.

### **Sperm and Oocyte**

056. **Effects of different extenders on sperm cryocapacitation in Nelore bulls** - Zaffalon FG, Andrade AFC, Nascimento J, Tarragó OFB, Martins SMMK, Fantinato Neto P, Alonso MA, Gallego AM, Arruda RP.
057. **Preservation of equine preantral follicles in PBS and MEM: preliminary results** - Gomes RG, Andrade ER, Seneda MM.
058. **Viability analysis of sperm mediated gene transfer on bovine sperm cells** - Cavalcanti PV, Milazzotto MP, Simões R, Mendes CM, Marques MG, Barros FRO, Visintin JA, Assumpção MEOA.
059. **Recombinant production of a bioactive form of the bovine acidic Seminal Plasma Fluid Protein (aSFP)** - Bustamante-Filho IC, Salton GD, Munari FM, Schneider MR, Mattos RC, Laurino JP, Cirne-Lima EO, Jobim MIM.
060. **Oocyte meiotic resumption induced by angiotensin II is mediated by progesterone** - Siqueira LC, Barreta MH, Gasperin BG, Drissen AB, Gutierrez K, Oliveira JFC, Gonçalves PBD.
061. **Study of the composition of protein seminal plasma equines during the reproductive period (2004 to 2005)** - Vasconcelos AB, Oliveira JS, Lagares MA, Santoro MM.
062. **Comparison between freezing methods for cryopreservation of stallion spermatozoa** - Maziero RRD, Avanzi BR, Guasti PN, Monteiro GA, Crespilho AM, Papa FO.
063. **Effects of post-thaw addition of seminal plasma on equine semen: CASA and flow cytometry approach** - Andrade AFC, Zaffalon FG, Celeghini ECC, Nascimento J, Tarragó OFB, Martins SMMK, Alonso MA, Arruda RP.
064. **Comparative study of different evaluations of cryopreserved bovine semen imported by Brazil** - Cunha ER, Silva CG, Guimarães CO, Martins CF.
065. **Addition of seminal plasma reduces tyrosine phosphorylation in post-thawed equine sperm** - Arruda RP, Andrade AFC, Zaffalon FG, Celeghini ECC, Nascimento J, Tarragó OFB, Martins SMMK, Alonso MA.
066. **Absence of green fluorescence in *Cumulus oophorus* cells from C57/BL6/EGFP mouse** - Campanha BCS, Souza DM, Godoi CP, Fernandes H, Moço PD, Mihara P, Rocha JC, Nogueira MFG.
067. **Manganese and membrane of spermatozoa in Nelore young bulls** - Reis LSLs, Oba E, Ramos AA, Camargos AS.
068. **Evaluations of the cryopreserved imported bovine semen from three artificial insemination companies** - Silva CG, Cunha ER, Guimarães CO, Martins CF.
069. **Effects of organic selenium supplementation on motility of boar sperm** - Martins SMMK, Andrade AFC, Parazzi LJ, Zaffalon FG, Gallego AM, Afonso ER, Moretti AS, Arruda RP.



070. **Effects of shade availability in the pasture on reproductive traits of Nelore bulls (*Bos indicus*) raised in Southeastern region of Brazil** - Tarragó OFB; Andrade AFC, Zaffalon FG, Nascimento J, Alonso MA, Silva DF, Rodrigues MP, Fantinato Neto P, Arruda RP.
071. **Andrological evaluation on two spinal cord injured dogs: a case report** - Trevizan JT, Carreira JT, Carvalho IR, Souza NC, Koivisto MB.
072. **Evaluation of a Nelore bull with high degree of chromatin damage and protamination deficiency: a case report** - Carreira JT, Rodrigues LH, Trevizan JT, Carvalho IR, Souza NC, Koivisto MB.
073. **Evaluation of the bovine spermatozoa from cauda epididymides stored at 5°C for 24 hours, incubated with and without Sperm Talp** - Papa PM, Papa FO, Oliveira LA, Giometti IC.
074. **DNA integrity and protamination *Bos taurus* and *Bos indicus* bulls: previous note** - Carreira JT, Trevizan JT, Carvalho IR, Souza NC, Koivisto MB.
075. **Ultrastructural evaluation of acrosomal damage after Percoll gradient centrifugation** - Oliveira LZ, Beletti ME, Levenhagen MA, Santos RM, Assumpção TI, Jacomini JO, Andrade AFC, Arruda RP, Hossepian de Lima VFM.
076. **Detection of bovine herpesvirus type 5 in frozen spermatozoa following infection of fresh bull semen** - Souza DG, Martins Jr A, Silva-Frade C, Calegari RS, Caldeira JO, Nobrega BG, Cardoso TC.

#### **Wildlife and Fisheries**

077. **Characteristics of frozen-thawed maned wolf (*Chrysocyon brachyurus*) spermatozoa** - Teodoro LO, Rodrigues V, Souza FF.
078. **Cryopreservation of epididymal sperm of agouti (*Dasyprocta agouti*) using Tris and powder coconut water (ACP®) extenders** - Silva MA, Peixoto GCX, Santos EAA, Bezerra FSB, Castelo TS, Sousa PC, Silva AR.
079. **Spermatogenic efficiency in four different cricetidae rodents species from the Caraça Natural Reserve** - Cordeiro-Jr DA, Costa GMJ, Talamoni SA, França LR.
080. **Spermatogonial transplantation in the Nile-tilapia** - Lacerda SMSN, Batlouni SR, Assis LHC, Resende FM, Campos-Silva SM, França LR.
081. **Characteristics of fresh maned wolf (*Chrysocyon brachyurus*) semen collected by digital manipulation** - Teodoro LO, Rodrigues V, Alvares EM, Camargo LS, Souza FF.

#### **Poster Session III - October 24, Sunday, from 08:30 to 09:30- Abstract 082 to 120**

#### **Reproductive technologies**

082. **Pharmacodynamic of prostaglandin F2 $\alpha$  administered through two different routes in cyclic cows** - Rovani MT, Barreta MH, Ferreira R, Gasperin BG, Antoniazzi AQ, Festugatto R, Oliveira JFC, Gonçalves PBD.
083. **Cloning in goats: comparison of two techniques for oocyte recovery** - Pereira AF, Alcântara Neto AS, Carneiro IS, Sousa FC, Melo CHS, Almeida TM, Teixeira DIA, Melo LM, Bertolini M, Freitas VJF.
084. **Comparative study of different cryoprotectants used for slow freezing of cattle *in vitro* produced embryos** - Prado FRA, Gottardi FP, Rocha NAS, Zoccal LB, Ragozo AMA, Mingoti GZ.
085. **Reproductive response of Nelore cows to short flushing** - Kawamoto TS, Nascimento VA, Torres C, Machado TMM, Dias M, Neves CA.
086. **Kinetic evaluation of goat spermatozoa frozen in media based on powder coconut water (ACP-101®) or TRIS** - Oliveira RV, Nunes JF, Salgueiro CCM, Cavalcante JMM, Brasil OO, Gonzalez VC, Andrade CR, Menezes ESB, Moura AAA.



087. **Thawing temperature influence on the integrity of membranes in dog cryopreserved spermatozoa** - Moura CS, Silva AKS, Silva BS, Silva AR, Peixoto CA, Silva SV, Guerra MMP.
088. **Role of leukemia inhibitory factor associated with the follicle stimulating hormone for *in vitro* development of sheep isolated preantral follicles** - Luz VB, Celestino JJH, Araújo VR, Magalhães-Padilha DM, Brito IR, Chaves RN, Silva TFP, Lima AKF, Almeida AP, Figueiredo JR.
089. **Sperm parameters and biochemical characteristics of goat seminal plasma during dry and wet season in Northeast Brazil and their influence on cooled semen** - Aguiar GV, Catunda AGV, Menezes ESB, van Tilburg MF, Lima ICS, Celes CKS, Campos ACN, Moura AAA, Araújo AA.
090. ***In vitro* meiotic delay of ovine oocytes with cycloheximide** - Crocomo LF, Marques Filho WC, Guastali MD, Sudano MJ, Chavier C, Paschoal DM, Magalhães LCO, Melo CM, Sakashita SM, Landim-Alvarenga FC, Bicudo SD.
091. **Structural characterization of lipids in horse embryo obtained by mass spectrometry** - Gonçalves RF, Saraiva SA, Ferreira CR, Orlandi CMB, Sartori VC, Ferreira HN, Guirao RT, Pilau EJ, Gozzo FC, Eberlin MN.
092. **Effect of addition of caffeine and reduction of the volume of medium for *in vitro* fertilization on the rate of sperm penetration in cattle oocytes** - Curcio AG, Micán GM, Pereira JL, Paes de Carvalho, CS Daher RF, Dias AJB, Fontes RS.
093. **Cryopreservation of stallion epididymal sperm using different freezing rates: preliminary results** - Kievitsbosch T, Melo CM, Papa FO, Magalhães LCO, Martin I, Guasti PN, Rocha AS, Dell'Aqua Jr JA, Monteiro GA.
094. High mitochondrial potential and mtDNA copy number associated with DNA fragmentation in bovine oocytes treated with Butyrolactone I - Mingoti GZ, Vincent P, Filion F, Smith LC.
095. ***In vitro* production of embryos in sheep: a report of pregnancy success after long periods of oocytes and embryos transport** - Melo Sterza FA, Max MC, Santos GMG, Marcantonio TO, Basso AC, Silva KCF, Pontes JHF, Seneda MM.
096. **Influence of a previously refrigerated container on the transport of equine semen** - Guasti PN, Carmo MT, Dell'Aqua Jr JA, Zahn FS, Alvarenga MA, Papa FO.
097. **Isolation, culture and cryopreservation of bovine amniotic cells with Dimethyl sulfoxide, Dimethylformamide or Glycerol** - Cunha ER, Silva CG, Siqueira LGB, Martins CF.
098. **Procedure for the reconstruction of inner cell mass and trophoblast in bovine embryos** - Emanuelli IP, Razza E, Rosa FS, Barros CM, Nogueira MFG.
099. **Morphologic evaluation of apoptotic and viable cells of ovine embryos stored frozen or vitrified with dimethylformamide and ethylene glycol** - Varago FC, Lagares MA, Henry MRJM, Chiarini-Garcia H, Vieira F, Camargo LSA, Serapião RV, Carvalho BC.
100. **Identification of three spermatozoa subpopulations in crossbred bulls (*Bos taurus taurus* x *Bos taurus indicus*)** - Silva TE, Barreto Filho JB, Braga Júnior RA.
101. **Evaluation of MPF and MAPK activities in recipient bovine oocytes produced by chemical enucleation techniques in nuclear transfer** - Saraiva NZ, Oliveira CS, Tetzner TAD, Melo DS, Monteiro FM, Lima MR, Leal CLV, Méo SC, Garcia JM.
102.  **$\alpha$ -6 integrin expression in bovine spermatogonial cells purified by discontinuous Percoll gradient** - Barros FRO, Mendes CM, Saurin GCP, Worst RA, Assumpção MEOA, Visintin JA.
103. ***In vitro* viability of ram sperm frozen with quercetin** - Silva ECB, Cajueiro JFP, Silva SV, Guerra MMP.
104. **Effect of Megalac-E® supplementation on pregnancy rate of embryo recipients submitted to FTET or natural heat** - Sales JNS, Araújo TPB, Crepaldi GA, Cardoso GGC, Grandinetti RR, Oliveira VG, Combi IM, Baruselli PS.



105. Use of medium supplemented with FCS and knockout serum replacement® for derivation of mouse embryonic stem cell from C57BL/6/EGFP - Campanha BCS, Oliveira CS, Souza DM, Godoi CP, Fernandes H, Ribeiro-Paes JT, Garcia JM, Nogueira MFG.
106. Effects of estradiol benzoate or GnRH at the beginning of a FTAI protocol on ovarian follicular diameter and pregnancy rate in postpartum beef cows - Silveira AP, Castro MM, Gabriel Filho LRA, Castilho C.
107. Timed-AI efficiency of a progesterone-based synchronization protocol using GnRH (Co-synch) or estradiol in *Bos indicus* beef heifers - Alvarez RH, Melo AJF, Poncio VAP, Carvalho NAT.
108. Influence of refrigeration of bone marrow on the viability of mesenchymal stem cells - Carmo MT, Alvarenga MA, Lima Neto JF, Roscado TS, Alvarenga ML, Guasti PN, Macedo CC, Araújo GHN, Alvarenga FCL.
109. Effect of addition of the antioxidants superoxide dismutase (SOD) and reduced glutathione (GSH) to the extender for cryopreservation of ram semen - Silva SV, Soares AT, Batista AM, Almeida FC, Monteiro Jr PLJ, Nunes JF, Peixoto CA, Guerra MMP.
110. Cryopreservation of dog semen in 05ml straw and Flat-bag - van Tilburg MF, Santos IP, Straggiotti JF, Cunha ICN.
111. Parameters for eletroporation of bovine oocytes to facilitate the introduction of trehalose in the cytoplasm - Pereira JL, Paes de Carvalho CS, Curcio AG, Daher RF, Dias AJB.
112. Effects of embryonic fluid and serum replacer as protein sources for *in vitro* maturation of bovine oocytes - Tetzner TAD, Saraiva NZ, Perecin F, Oliveira CS, Monteiro FM, Lima MR, Méo SC, Ferreira CR, Garcia JM.

#### Domestic species

113. The role of insulin-like growth factor-I on inhibition of heat-induced apoptosis in bovine oocytes - Ispada J, Lima RS, Risolia PHB, Andrade ES, Assumpção MEOA, Visintin JA, Paula-Lopes FF.
114. Protocol for ovulation induction in prepubertal heifers - Miguel MCV, Cipriano RS, Pavanello LM, Batista EOS, Souza JS, Nogueira GP.
115. Polymorphism of the BMP-15 gene in Santa Inês and Morada Nova ewes - Silva DMF, Rocha SSN, Holanda GML, Adrião M, Wischril A.
116. Bovine dominant follicular fluid promotes the *in vitro* development of caprine preantral follicles - Duarte ABG, Araújo VR, Chaves RN, Magalhães DM, Silva GM, Serafim MKB, Figueiredo JR.
117. A novel protocol achieving synchronized ovulations in Santa Inês ewes - Oliveira CA, Paes de Barros MB, Viau P, Nicolau SS, Sales JNS, Dias LMK.
118. LH secretion in prepubertal Nellore heifers after lecorelin injection - Cipriano RS, Miguel MCV, Pavanello LM, Batista EOS, Souza JS, Oliveira PVLFF, Delfino JLC, Nagata WB, Nogueira GP.
119. *In vitro* culture of bovine preantral follicles in the presence of indol acetic acid - Blaschi W, Andrade ER, Garcia JE, Vilas-Bôas LA, Moreira FB, Barreiros TRR, Alfieri AF, Alfieri AA, Seneda MM.
120. Plasma and urine progesterone concentration in Nellore heifers - Miguel MCV, Cipriano RS, Pavanello LM, Batista EOS, Souza JS, Oliveira PVLFF, Delfino JLC, Nagata WB, Nogueira GP.

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