

Scientific Programme of ESDAR Conference
20.9.-22.9.2007



Thursday 20.9.07

13:00 - 19:00 ESDAR Board Meeting
17:00 - 23:00 Registration
17:00 - 20:00 Reception

Friday 21.9.07

8:00 - 8:15 Opening Ceremony

8:15 - 8:30 Overview of the Germany Farm Animal Production

8:30 – 9:50 **Plenary Session 1: „Cattle Reproduction“**
(Chair: Solti, Hungary)

8:30 - 9:10 The high yielding cow and its reproductive performance
(Dobson, United Kingdom)

9:10 - 9:50 Application of Doppler ultrasonography in cattle reproduction
(Herzog, Germany)

9:50 - 10:15 Coffee Break

10:15 – 12:15 **Plenary Session 2: „New aspects of male fertility“**
(Chair: Vazquez, Spain)

10:15 – 10:55 Significance of messenger RNA in ejaculated spermatozoa
(Miller, United Kingdom)

10:55 -11:35 The horse genome project – sequence based insights into male
reproductive mechanisms (Leeb, Switzerland)

11:35 – 12:15 Genetic mechanisms for regulation of litter size in pigs
(Distl, Germany)

12:15 - 13:30 **Poster Session 1 and 2**

13:30 - 15:00 Lunch

13:30 - 15:00 Meeting of the Country Representatives

15:00 - 16:30 **Parallel Oral Communication Sessions 1-3**

Oral Communication Session 1

1.A **Lymberopoulos:** Effect of Follicular Fluid on Chromatin
Stability of Bovine Spermatozoa

- 1.B **Fraser:** Comparisons of the neutral Comet assay (NCA) and Sperm-Sus-Halomax[®] kit in relation to DNA integrity of frozen-thawed boar spermatozoa
- 1.C **Trzcinska:** Relationship between boar sperm membrane integrity, mitochondrial activity and motility following storage at 15°C
- 1.D **Janett:** Quality of Frozen Bovine Semen Stored in Vessels of Inseminators
- 1.E **Price:** Effects of temperature and gentamicin on quality of cooled-stored stallion semen
- 1.F **Russo:** Doppler ultrasonography of the alpaca's testis: normal values
- 1.G **Payan-Carreira:** Ultrasonographic characterization of TVT lesions on the canine penis

Oral Communication Session 2

- 2.A **Otzdorff:** Developmental competence of BCB (brilliant cresyl blue) selected bovine oocytes after vitrification
- 2.B **Bage:** Excessive lipid contents in immature oocytes from repeat breeder dairy heifers
- 2.C **Rooke:** Effect of diet and feeding frequency on bovine oocyte quality
- 2.D **Coy:** Chemical induction of zona pellucida hardening improves monospermy in pig IVF
- 2.E **Racedo:** Effects of follicle size and stage of maturation on reprogramming mRNA expression in bovine in vitro matured oocytes
- 2.F **Greenway:** Horse stem cells in development and therapies
- 2.G **Motlik:** Mechanisms of self-renewal and differentiation of adult stem cells isolated from bone marrow, brain and epidermis of the miniature pigs

Oral Communication Session 3

- 3.A **Palm:** Inflammatory response of the mare's endometrium to different semen extenders and seminal plasma

- 3.B **Sosa:** Effect of under-nutrition on the in vitro secretion of prostaglandin F2 α and on the endometrial expression of cyclooxygenase 2 in cyclic and pregnant ewes
- 3.C **Waters:** Effect of dietary polyunsaturated fatty acids on the expression of genes involved in prostaglandin biosynthesis in the bovine uterus
- 3.D **Costello:** Insulin-like growth factor binding proteins in the uterus of the cow during the oestrus cycle
- 3.E **Hirsbrunner:** Spontaneous myometrial contractility in cows suffering from endometritis – influence of localisation, smooth muscle layer and phase of estrous cycle phase
- 3.F **Friedrich:** Pregnancy detection in dairy cows by measuring pregnancy-associated glycoprotein (PAG) in milk
- 3.G **Veronesi:** Peripartal progesterone, cortisol, 17 β - estradiol and 15-ketodihydro-PGF2 α plasma concentration in jennies

16:30 - 16:45

Coffee Break

16:45 - 18:00

Workshops 1-4

Workshop 1: Semen assessment in relation to fertility and standardization of techniques
(Moderator: Pena-Vega, Spain)

W 1.1 Roca et al.:

Sperm penetration assay using homologous immature oocytes as screening test for evaluating boar sperm fertilizing ability

W 1.2 Pena et al.

Semen assessment in mammals: are we doing our best?

Workshop 2: Reproductive immunology of domestic animals
(Moderator: Katila, Finland)

W 2.1 Dalin et al.

Immune cell infiltration in the sow endometrium and endosalpinx at different stages of the oestrus cycle

W 2.2 Schuberth et al.

Inseminate-induced leukocyte immigration into the uterus. Comparative aspects.

Workshop 3: Seminal plasma and fertility
(Moderators: Holt, UK)

W 3.1 Muiño-Blanco et al.

Seminal plasma proteins repair cold-shock membrane damage to ram spermatozoa

W 3.2 Maxwell et al.

Seminal plasma effects on ruminant and Camelid sperm function during processing for storage or sex-sorting

Workshop 4: Selected aspects in Small Animal Andrology

A scientific contribution of EVSSAR

(Moderators: Günzel-Apel, Germany, Rijsselaere, Belgium)

W 4.1 Günzel-Apel et al.

Bacterial status of dog semen with special reference to *Mycoplasma* species

W 4.2 Rijsselaere T, Van Soom A

New techniques for the assessment of canine sperm quality

18:30 - 20:15

Hanoverian Horse parade at the National Horse Stud Celle

20:15

Banquet at the National Horse Stud Celle

Saturday 22.9.07

8:30 – 9:50

Plenary Session 3: „Reproduction in non-farm animals“
(Chair: de Kruif, Belgium)

8:30 - 9:10

Assisted reproduction in rhinoceroses and elephants
(Hermes, Germany)

9:10 - 9:50

Reproduction in water buffaloes
(Presicce, Italy)

9:50 - 10:15

Coffee Break

10:15 – 11:30

Poster Session 3 and 4

11:30 - 13:00

Parallel Oral Communication Session 4-6

Oral Communication 4

4.1

Gosk: Chromatin status of dog spermatozoa with regard to semen quality

4.2

Woelders: Fresh storage and cryopreservation of stallion semen

4.3

Cseh: Testicular function and semen characteristics of rams treated with melatonin out of the breeding season

4.4

Taylor: Influence of spermatozoa, seminal plasma and semen extender on the migration of porcine neutrophils in vivo and in vitro

4.5

Lechner: Chemotaxis of bovine neutrophils is inhibited by seminal plasma in vitro

4.6

Martinez-Pastor: Mitochondrial activity in red deer spermatozoa decreases when using H₂O₂, but not Fe²⁺, to induce oxidative stress

4.7

Garcia-Vazquez: Sperm mediated gene transfer (SMGT): Effect of boar sperm treatment on DNA uptake measured by flow cytometry

Oral Communication Session 5

5.1

Ferreira: Evaluation of Nuclear and Cytoplasmic Maturation of Prepuberal Goat Oocytes

5.2

Varga: Influence of the Vitrification Procedure on Zona Pellucida Solubility in Pig Oocytes

- 5.3 **Paz:** Ultrastructure of Ocelot's (Leopardus Pardalis) Oocytes Aspirated after Hormonal Treatment.
- 5.4 **Goovaerts:** Effect of cumulus cell coculture on developmental competence during group or single bovine embryo culture in vitro
- 5.5 **Ebeling:** Influence of FSH/LH on porcine oocyte cumulus complexes during the first ten hours of in vitro maturation
- 5.6 **Urbankova:** Obtaining High-quality and Viable Embryos for Cryopreservation and Transfer
- 5.7 **Wilsher:** Successful transfer of day 10 horse embryos to asynchronous recipient mares.

Oral Communication Session 6

- 6.1 **Hoedemaker:** Body Condition Loss during the Dry period, Reproductive Performance and Animal Health in Dairy Cows
- 6.2 **Garmo:** Reproductive performance in Norwegian dairy cattle
- 6.3 **Skarzynski:** Stromal cells are the target for lysophosphatidic acid action via LPA1 receptor in the bovine Endometrium
- 6.4 **Säkkinen:** Comparison of ultrasound and hormonal pregnancy detection of reindeer
- 6.5 **Mourier:** Assessment of three ovulation induction protocols in mares (hCG, buserelin and Crude Equine Gonadotropin)
- 6.6 **Peltoniemi:** Deep uterine insemination with standard AI dose in a sow pool system
- 6.7 **McNeil:** Within-litter variation in pig conceptus size and cortisol status on days 20-24

13:00 - 14:30

Lunch

14:30 - 15:45

Workshops 5-7

Workshop 5: Equine cloning: State of the art (Moderator: Palmer, France)

W 5.1 Chavatte-Palmer

Horse cloning : pregnancy and post-natal development

W 5.2 Galli

Nuclear transfer in horses: from cell biopsy to the establishment of pregnancy

Workshop 6: New genetic strategies to identify and preserve biodiversity in production animals
(Moderator: Groeneveld, Germany)

W 6.1 Groeneveld

New Genetic Strategies to Identify and Preserve Biodiversity in Production Animals - Setting the Scene

W 6.2 Sonesson

Optimum Contribution Methods to Manage Genetic Variation

Workshop 7: Comparative aspects of oocyte quality
(Moderator: Lonergan, Ireland)

W 7.1 Tesfaye

Transcriptomics of bovine oocytes with different developmental potential

W 7.2 Torner

Cytoplasmic quality of bovine oocytes from populations with different developmental competence before IVM

W 7.3 Lonergan

Comparative aspects of oocyte quality

15:45 - 16:15

Coffee Break

16:15 - 17:30

Workshops 8 - 10

Workshop 8: Membrane stress during biotechnical procedures
(Moderator: Gadella, The Netherlands)

W 8.1 Gadella

Gamete membrane biology: what is required for mammalian fertilization and how is this challenged during gamete processing?

W 8.2 Arav

The effect of chilling injury and heat stress on gamete's membranes

Workshop 9: Early embryo losses in cattle and pigs
(Moderator: Opsomer, Belgium)

W 9.1 Ashworth

Embryo Mortality in the Pig: New solutions for an old problem?

W 9.2 Opsomer

Early Embryonic Death in Cattle

Workshop 10: Reduction of perinatal losses in cattle
(Moderator: Szenci, Hungary)

W 10.1 Szenci

Does Perinatal Mortality in Dairy Cows Need Any Concern?

W 10.2 Taverne

Approaches to unravel the patho-physiological background of unexplained perinatal mortality in dairy cows

W 10.3 Mee

Important risk factors for perinatal mortality and its prevention in dairy cows

17:30 - 18:30

Closing Ceremony and ESDAR AGM

18:30 - 19:30

ECAR AGM

20:00

Gala Dinner

Poster Sessions

Poster number	First Author	Title
1	Parillo	Glycoconjugate features of the alpaca ductuli efferentes
2	Parillo	Glycohistochemistry of the alpaca epididymis
3	Rubio	Relationship between sperm head dimension of frozen-thawed bull semen and fertility
4	Esser	Diadem/Crater defect in spermatozoa of Brahman bull (<i>Bos indicus</i>) from a tropical region
5	Stradaioli	Welfare condition and semen production of Simmental bulls kept on two different floor systems
6	Alm	Acute Bovine Respiratory Syncytial Virus (BRSV) infection in young AI bulls –effect on sperm quality and fertility
7	Underwood	Pregnancies after artificial insemination of frozen-thawed, sex-sorted, re-frozen-thawed dairy bull sperm
8	Ferre	Bovine Neosporosis: Relationship between presence of infected bulls and intraherd seropositivity
9	Sahin	Role of Fn2-module-containing proteins in bull sperm volume regulation
10	Januskauskas	Estimation of Spermatozoa Quality in Relation to Fertility in Dairy AI Bulls
11	Felipe-Perez	Biochemical characterization of the perinuclear theca (PT) proteins extracted before and after the freezing-thawing protocol of bovine semen
12	Köb	Effects of different extenders on production of reactive oxygen species and lipid peroxidation of cryopreserved bovine sperm
13	Lipke	The ultrastructure of the spermatozoa of <i>Dendrobates auratus</i> (Amphibia, Anura, Dendrobatidae)
14	Gonzalez	Sensitivity and Specificity of Fine Needle Aspiration Cytology in the Diagnosis of Benign Prostatic Hyperplasia and Chronic Prostatitis
15	Michael	Effect of N-acetyl-L-cysteine supplementation in semen extenders on semen quality and reactive oxygen species of chilled canine spermatozoa

16	Michael	Effect of vitamin C supplementation in semen extenders on semen quality and reative oxygen species of chilled canine spermatozoa
17	Prinosilova	Short-term survival test of fresh dog semen for prediction of its freezability
18	Bigliardi	Sertoli Cells Tumors (SCT) of dog testis: gray scale, color and power Doppler ultrasonographic appearance
19	Kowalowka	Enzymatic antioxidant defense system in dog semen
20	Sironi	Analysis of RXFP2 (LGR8) as candidate gene for canine cryptorchidism
21	Martins-Bessa	Addition of taurine and hypotaurine to freezing medium failed to improve the quality of frozen-thawed dog spermatozoa
22	Lucas	Does Exist any Relationship Between the Resistive Index of Testicular Arteries and Semen Quality in the Dog?
23	Sokolowska	Flow cytometric detection of activated caspases in frozen thawed canine sperm with fluorochrome-labeled inhibitor of caspases: correlation with apoptosis and kinematic parameters
24	Motheo	Prostatic omentalization in three dogs with prostatic abscesses
25	Aiudi	Chemical Sterilization in Dogs with Intra-Epididymal Injection of 5% Chlorhexidine Solution
26	Vaquero	Sperm pre-frozen assessment can be useful to estimate the impact of cool and extenders on the epididymal semen quality in cats
27	Lavrentiadou	Effect of dried tomato pulp or green tea catechin extract supplementation on sperm apoptosis in n-3 fatty acid-treated male rabbits
28	Pawlak	Effect of chorionic gonadotropin on sexual maturity in stallions
29	Miro	Morphometric Changes of Stallion Spermatozoa Through Cryopreservation Process
30	Taberner	Comparison of three temperatures for cooled storage of donkey sperm before freezing process

31	Albrizio	Subcellular localization of delta opioid receptors and L-type voltage calcium channels on equine sperm cells by indirect immunofluorescence
32	Morrell	Chromatin integrity in breeding stallions and its relationship to sperm morphology
33	Morrell	Morphology of spermatozoa from warmblood stallions: relation to pregnancy rate
34	Rota	Effect of semen collection in successive days on some seminal and behavioural characteristics of Amiata donkeys
35	Sieme	Effects of alternative cryoprotectants on sperm quality after freezing stallion semen
36	Tejerina	The effect of EGF on the kinematic parameters of bar spermatozoa
37	Mazurova	Bactericidal activity of natural substances on microorganisms contaminating boar semen
38	Flores	Changes in the motile sperm subpopulations structure during freezing/thawing in boar spermatozoa
39	Magdalena	Effect of apoptosis in boar spermatozoa on quality of preimplantation porcine embryos
40	Bucci	Immunolocalization of GLUTs 1-5 in boar spermatozoa
41	Erokhin	Effect of dry soya-lecithin on cryoresistance of boar spermatozoa
42	Jiwakanon	Influence of seminal plasma on the distribution of T-lymphocytes in the pig oviduct
43	Bussalleu	Effects of filtration in columns of Sephadex A-50, Sephadex C-50, glass beads and glass wool in sperm quality of seminal doses from asthenospermic and aasthenoteratospermic boars
44	Garcia-Vazquez	Birth of piglets after deep intrauterine insemination with boar spermatozoa coincubated with exogenous DNA
45	Garcia-Herreros	Effects of cryopreservation on the morphometric dimensions of boar spermatozoa assessed by CASMA system
46	Umesiobi	Action of oral administration of Clomiphene citrate on testicular characteristics and reproductive traits of boars
47	Vasco	Generation of reactive oxygen species (ROS) by frozen-thawed boar spermatozoa

48	Kordan	Use of two-dimensional polyacrylamide gel electrophoresis (2D-PAGE) to assess the secretory activity of boar accessory sex glands
49	Wysocki	Can the phosphorylation status of tyrosine proteins and Heat Shock Protein 70 (HSP-70) be used as a marker for cryo-capacitation of boar spermatozoa?
50	Dziekonska	Energy metabolism in boar spermatozoa stored in different extenders at 5° and 16°C
51	Aparicio	Crosstalk between cAMP/PKA and GSK3 α in the regulation of boar spermatozoa motility
52	Henning	Liquid storage reduces boar sperm response to bicarbonate
53	Frydrychova	Seasonal Changes of Boars Semen Production
54	Tsakmakidis	Toxic effects of zearalanone (zen) and α -zearalenol (α -zen) on chromatin instability of boar spermatozoa
55	Ekwall	Cryo-scanning electron microscopy of boar semen frozen in medium straws and MiniFlatPacks
56	Ramio-Lluch	Changes in oxygen consumption rates associated to the achievement of "in vitro" capacitation and acrosome reaction in boar spermatozoa
57	Perez-Marin	Assessment of porcine semen concentration by near infrared spectroscopy (NIRS)
58	Moran	Sodium nitroprusside induces caspase activity in boar semen
59	Moran	Effect of NO donors and inhibitors on boar sperm motion characteristics
60	O Gutierrez	Chemical decondensation in fresh and frozen-thawed boar spermatozoa
61	De Jesus	Semen quality valuation of celta pig boars, breed in danger of extinction, in order to develop a germoplasma bank
62	Gonzalez-Fernandez	Identification of Protein Tyrosine Phosphatases (PTP) and Dual Specificity Phosphatases (DSP) in boar spermatozoa and their role in sperm motility
63	Gonzalez-Fernandez	Isoform identification and subcellular distribution of PKD in boar sperm

64	Gadea	Porcine sub fertility in boars from a line breed is related to alteration in spermatozoa morphology and DNA fragmentation
65	Hernandez	Oxidative stress and its relationship with membrane instability through the freezing-thawing process of boar spermatozoa
66	Caballero	Effect of PSP-I/PSP-II heterodimer on calcium influx and membrane stability of highly-extended boar spermatozoa
67	Kovalenko	Intrauterine artificial insemination in pigs
68	Erokhin	A Comparison of Two Diluents for the Cryopreservation of Ejaculated Spermatozoa in Spectacled Bear (<i>Tremarctos ornatus</i>)
69	Khalifa	Preservability of goat semen in egg yolk-deficient extenders
70	Velez	Testicular Growth and Testosterone Secretion in Alpine Bucks are Stimulated by Artificial Long Days Followed by Melatonin or Constant Light
71	Gatica	Effect of exogenous melatonin associated with artificial long days on reproductive parameters in Mediterranean goat males
72	Mekasha	Sperm production characteristics of tropically adapted Ogaden bucks in Ethiopia
73	Arrebola	Sperm quality and fertility of buck semen chilled in four different extenders
74	Kridli	Sexual performance of pure and crossbred rams sequentially exposed to short-tailed and fat-tailed ewes
75	Cebrian-Perez	Effect of the cryopreservation process on the activity and immunolocalization of antioxidant enzymes in ram spermatozoa
76	Lymberopoulos	Fertility of Chios Sheep Semen in Commercial Extenders
77	Uysal	Effect of Oxidized Glutathione, Bovine Serum Albumine, Cystein and Lycopene on the freezing of ram semen
78	Rodrigues	Effects of carbetocin on spermatozoa motility of ovine semen cooled at 4°C
79	Beilby	The effect of post-thaw addition of seminal plasma proteins on sex-sorted ram sperm

80	Leahy	The effect of seminal plasma on the functional integrity of sex-sorted ram sperm
81	Aguera	Sexing in Vitro Bovines Embryos, at Several Development Stages, Using Cytogenetic Analysis
82	Akcay	The effect of estradiol 17b on in vitro embryo production in cattle
83	Hegedüsova	Efficiency of selection of the parents'pair for improvement the breeding value in the herd.
84	Parrilla	Integration of Puresperm® gradient centrifugation into a bovine IVF protocol using sex sorted spermatozoa
85	Slezakova	The influence of sires on the results of superovulation and embryo transfer in beef cattle
86	Mai	Allocation of cell descendents from murine and bovine 2-cell blastomeres in the blastocyst
87	Iqbal	Production of transgenic bovine embryos by adeno-associated virus (AAV)
88	Neto	Influence of freezing parameters on the cryopreservation of bovine ovarian tissue
89	Iacono	Effects of addign Naloxone on in vitro survival of vitrified bovine embryos
90	Monaco	Effect of Osteopontin on bovine sperm capacitation
91	Havlicek	Development and freezability of bovine embryos cultured in bovine oviducts for seven days
92	Kandil	Transcriptional Analysis of Buffalo (<i>Bubalus bubalis</i>) Oocytes Using Bovine cDNA Microarray
93	Regassa	Functional analysis of bovine <i>Msx1</i> gene during pre-implantation embryonic development
94	Noseir	Vitrification of in vitro produced bovine embryos from two different culture media
95	Marques	Ovine Doppel gene (<i>Prnd</i>) polymorphisms: effect on sperm capacitation and in vitro fertilizing ability
96	Koblischke	Influence of an anti-inflammatory treatment on results of transcervical embryo transfer in the horse

- 97 **Budik** Expression of oxytocin and vasopressin receptors in preimplantative equine embryos
- 98 **Lange Consiglio** Meiotic suppression with Roscovitine in horse compact cumulus oocytes: effects on nuclear and cytoplasmic maturation
- 99 **Panzani** Low pregnancy rates after embryo transfer in the endangered Pantesca donkey breed
- 100 **Kochan** Developmental capacity of equine oocytes after parthenogenetic activation with ionomycin or calcium ionophore in combination with cycloheximide
- 101 **Kowalczyk** Effect of IGF-I and PGE2 on VEGF release by cultured porcine luteal cells isolated during the mid-and late luteal phase of the estrus cycle
- 102 **Skrzyszowska** Development of Porcine Cloned Embryos Reconstructed with eGFP Transgenic Adult Dermal Fibroblast Cells Cytometrically Analyzed on Cell Cycle and Apoptosis
- 103 **Coy** Effect of DTSP on cow zona pellucida hardening and IVF
- 104 **Samiec** Effect of Simultaneous Fusion and Activation Treatment on the Development of Porcine Cloned Embryos Reconstructed with Fetal Fibroblast Cell Nuclei and Apoptosis Occurrence at the Blastocyst Stage
- 105 **Kaczmarek** Regulation of VEGF-receptor system expression by IGF-1, RLX and OT in porcine endometrial stromal cells in vitro
- 106 **Sanchez-Osorio** Evaluation of the technical procedure for porcine non-surgical deep uterine embryo transfer
- 107 **Alminana** Developmental competence after *in vivo* and *in vitro* culture of embryos obtained from sows inseminated with fresh or frozen/thawed sperm
- 108 **Fabian** Spontaneous and Induced Cell Death During Preimplantation Development of Rabbit and Mouse
- 109 **Chrenek** Allocation of Transgenic Cells in Rabbit Chimeric Embryos
- 110 **Makarevich** A role of Hsp 70 in response of rabbit preimplantation embryos to hyperthermia
- 111 **De los Reyes** Effect of capacitation time on sperm penetration of in vitro matured canine oocytes

112	De los Reyes	Acrosin release during in vitro capacitation of frozen-thawed dog sperm
113	Cseh	Spindle dynamics observed in MII mouse oocytes treated with sub-optimal temperature
114	Cordeiro	Performance of adult and young goats submitted to successive follicular aspirations by laparoscopy with one week interval
115	Leoni	GDF9 during maturation enhances prepubertal and adult ewe oocyte developmental competence
116	Batista	Effect of polyunsaturated fatty acids (PUFA) on bovine oocyte in vitro maturation and subsequent embryo development and freezability.
117	Martin	Training in reproduction within the framework of the "Intensive study munich" - Results of an evaluation by student of veterinary medicine
118	Desantis	Distribution of sialoglycoconjugates in the epithelium of the dromedary oviduct
119	Catone	Laparoscopic folliculocentesis and PGs determination in alpacas (Lama pacos): Preliminary report
120	Saeidabadi	Ultrasonographic of Early Foetal Development in the Dromedary Camel
121	Rodenbusch	Endometrial biopsy – a useful method for diagnosis of endometrial alterations in subfertile cattle?
122	van Engelen	Relationship between cervical diameter and uterine and cervical EMG-activity during the first 48 h after PGF2a - induced calvings.
123	Dolezel	Are Preventive Diagnostics and Early Treatment of Puerperal (Endo)Metritis Beneficial for Reproductive Performance in Cows?
124	Stastna	Lactobacilus spp.in prevention of puerperial inflammation of cows
125	Nakao	Abnormal resumption of postpartum ovarian cycles in high-producing dairy cows; incidence, consequent subfertility, and risk factors
126	Masiulis	Follicular growth in post partum cows after endometritis treatment

- 127 **Rutkauskas** Effect of corpus luteum persistens on follicular growth in ovaries of dairy cows
- 128 **Siemieniuch** Proinflammatory cytokines and nitric oxide induce prostaglandins production in the epithelial cells of bovine mammary gland
- 129 **Woclawek-Potocka** Prostaglandin synthases and lysophosphatidic acid receptor type 1 expression in the bovine endometrium during the estrous cycle and early pregnancy
- 130 **Majewska** Lymphocyte subsets distribution in peripheral blood and endometrium during early pregnancy in cows
- 131 **Korzekwa** Leukotrienes in bovine corpus luteum: mRNA expression and concentration
- 132 **Korzekwa** What cell type is the target for leukotrienes action within the bovine ovary?
- 133 **Fernandez** Effects of two reduced doses of bST during estrus synchronization on milk production and on days to estrus in holstein cows of north Mexico
- 134 **Cech** Acid-base balance of follicular fluid in dairy heifers
- 135 **Richterich** Expression of Insulin-like Growth factor (IGF) system components in bovine placentomes
- 136 **Erdem** Evaluation of the use of GnRH after two-dose PGF₂ α treatment for a timed insemination program in Holstein dairy heifers
- 137 **Bajcsy** The effect of a single oxytocin treatment on peripheral plasma prostaglandin F₂ α -metabolite concentrations on the first day postpartum in dairy cows
- 138 **Lehnert** Proteomics of first trimester bovine allantoic and amniotic fluids
- 139 **Seidel** Reactivity of the pituitary gland of dairy cows on exogenous GnRH within the first ten days post partum
- 140 **Ahmadi** Comparison of bacterial isolates and clinical signs of postpartum endometritis in Holstein dairy cows in Iran
- 141 **Roelofs** Oestrous expression of dairy cows with or without bull exposure
- 142 **Roelofs** The effect of bull contact on LH-profiles in postpartum anoestrus dairy cows

143	Seegers	Economic assessment of selective dry cow treatment options including a teat sealer application in dairy herds
144	Martin	The Reproductive Performance of Hereford Cattle Using Milk Progesterone Analysis
145	Novotny	The effect of serum urea levels on the yield and quality of embryos in lactating dairy cows
146	Dovenski	Efficiency of Beta-Carotene for treatment of ovarian disorders in dairy cows
147	Grimard	Efficiency of oestrus synchronisation treatment combining GnRH analog (busereline), norgestomet implant, prostaglandine analog (luprostiol) and eCG in beef cows
148	Jeanrond	The Sda-glycotope on bovine Pregnancy-associated glycoproteins (PAGs): possible functional implication
149	Manca	Doppler Evaluation of Bovine Follicular Cysts after Epidural Lecirelin Administration
150	Kafi	Evaluation of the reproductive performance of Holstein dairy cows in Fars, southern Iran
151	Taponen	Support of pregnancy with progesterone or bucerelin in Finnish Ayrshire cows
152	Bossaert	Impact of metabolic and endocrine parameters on ovulation in high-yielding dairy cows.
153	Keresztes	Periparturient propylene glycol supplementation in Holstein-Friesian cows
154	Brickell	Influence of plasma IGF-I concentrations and body weight at 6 months on age at first calving in dairy heifers on commercial farms
155	Lobago	Reproductive and lactation performances of smallholder crossbred dairy cattle in Fitcha, central Ethiopia
156	Pazzola	Seasonal-climate effects on reproductive function in dairy cows reared in Sardinia
157	Kose	Characterization of a timed insemination (TAI) program in nonlactating Brown-Swiss cattle
158	Petzl	Endometrial Toll-like receptor (TLR) expression is not regulated by sexual steroids but is affected by uterine bacterial contamination in periparturient cows

159	Ponsart	Oestrus detection characteristics between calving and first insemination in dairy cows
160	Ponsart	Influence of milk parameters on the regularity of post-partum cyclicity in dairy cows
161	Osoro	Bovine Neosporosis: Natural Breeding with experimentally-infected bulls failed to induce seroconversion in heifers
162	Chaparro	Influence of gestation on calcium-sensing receptor expression in the mammary gland of dairy cows
163	Ventriglia	Immunohistochemical Localization of the Mu-opioid Receptor in the Bovine Uterus
164	Gambarini	Evaluation of lesion score and agent in beef heifers with granular vulvovaginitis syndrome (GVS)
165	Viu	Influence of biostimulation on body weight gain and puberty age of Bos indicus heifers
166	Pabon	Neospora caninum: Dynamics of antibodies in dairy cows during pregnancy
167	Bech-Sabat	High milk production increases the risk of early fetal loss in dairy cows
168	Tsousis	Effect of clinical signs of chronic endometritis on days open in dairy cows assessed by survival analysis
169	Gabriel	Will the Administration of PGF2alpha at AI Improve Conception Rates in Cows?
170	Honnens	Effects of an early hormonal induction of ovulation on genital blood flow and endometrial steroid hormone mRNA expression in cattle
171	Cinone	Treatment of ovarian follicular cysts in dairy cows with epidural GnRH and calcium – naloxone administration
172	Jordan	Effect of length diestrus on genital blood flow in cattle
173	Perez-Marin	Estrous cycle features associated with central luteal cavities formation in dairy cattle
174	Rocha	Decreasing reproductive performance of dairy cows, in Portugal
175	Berisha	Expression patterns of VEGF and angiopoietin family members in the bovine periovulatory follicles

- 176 **Freret** Effect of restraint quality during first service on early embryonic death rate in Prim'Holstein dairy herds
- 177 **Gajewski** The effect of a stimulator and blockers of adrenergic receptors treatment on uterine contractility in early postpartum dairy cows
- 178 **Groeger** Effect of intravenous glucose-infusions on the prevulatory LH-concentrations in dairy cows
- 179 **Dabrowski** Usefulness of determinations of selected acute phase reaction coefficients in bitches with pyometra undergoing ovariohysterectomy with postoperative complications
- 180 **Andersson** Seroprevalence of canine herpes virus-1 and Brucella canis in Finnish breeding kennels with and without reproductive problems
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