



ESDAR

THE EUROPEAN SOCIETY FOR DOMESTIC ANIMAL REPRODUCTION



13th Conference
of the European Society of Domestic Animal Production (ESDAR)
and
Annual Meeting of EU AI-VETS



9-12 September 2009, Ghent – Belgium

PROGRAMME

Thursday, September 10th 2009

- 12.00-19.30 Registration
- 18.15-19.45 **Welcome Reception** (Conference venue "Het Pand")
Included in registration fee

FRIDAY, September 11th 2009

- From 07.30 Registration
- 08.00-08.15 **Opening ceremony** (President of the ESDAR, president of the LOC,
Rector Ghent University)
- 08.15-08.35 Piet Vanthemsche – Animal production in Belgium
- 08.35-09.55 **Plenary Session I:** Subclinical endometritis
(*Chair: Marc Crowe*)
Speaker 1: M. Sheldon (UK)
Mechanisms of infertility associated with clinical and
subclinical endometritis in high producing dairy cattle
Speaker 2: M. Leblanc (USA)
Subclinical endometritis in mares: a threat for future fertility?
- 09.55-10.20 Coffee break and exhibition

- 10.20-11.40 **Plenary Session II:** The effect of coincidence in reproductive data
(Chair: Hilary Dobson)
Speaker 1: J. Dewulf (BE)
How to evaluate and quantify the influence of coincidence on fertility and herd health parameters?
Speaker 2: B. Holt (UK)
Is semen analysis useful to predict the odds that the sperm will meet the egg?

11.45-12.45 **Three Parallel Oral communications** (15 min. incl. discussion)

| Oral Communication 1: Embryo transfer and in vitro production in cattle | | | |
|--|------------------|----------|---|
| OC1-1 | Eghbalsaied S | Iran | Bovine blastocysts produced by sperm-mediated gene transfer (SMGT) and IVF |
| OC1-2 | Beltman ME | Ireland | Hormonal and metabolic characteristics of beef heifers do not explain embryo viability on Day 7 |
| OC1-3 | Smits K | Belgium | Identification of differentially expressed genes in in vivo versus in vitro equine blastocysts by suppression subtractive hybridization (SSH) |
| OC1-4 | Vandaele L | Belgium | Effect of sublethal hydrogen peroxide supplementation on developmental kinetics in bovine in vitro produced embryos |
| Oral Communication 2: Reproduction in dogs | | | |
| OC2-1 | Artl S | Germany | Endoscopic resection of a vaginal septum in a dog |
| OC2-2 | Goericke-Pesch S | Germany | Expression of endocrine regulatory factors during recrudescence of spermatogenesis in the dog |
| OC2-3 | Payan-Carreira R | Portugal | Endometrial expression of Integrin α V β 3 in the bitch |
| OC2-4 | Aralla M | Italy | The significance of aquaporins in placenta and fetal membranes: the regulation of amniotic fluid production and composition during canine pregnancy |
| Oral Communication 3: Spermatology | | | |
| OC3-1 | Lopez A | Belgium | Effect of a diet supplemented with organic Selenium on sperm quality of boars |
| OC3-2 | Lymberopoulos AG | Greece | Liquid storage of ovine semen in a new chemically defined medium |
| OC3-3 | Khalifa TAA | Greece | Towards a better understanding of equine semen metabolism |
| OC3-4 | Soares L | Portugal | Extender, but not chilling for 24 hours affected freezability of bovine epididymal spermatozoa |

12.45-14.00 Lunch and Exhibition

14.00-15.30 **Parallel sessions**
During these sessions the participants can either choose to attend one of the parallel workshop sessions (Science line-species related) or, if they are not interested in the workshops, they can attend the poster session. Posters which are interesting for practitioners will be identified with a GREEN tag, posters which are interesting for scientists will receive a RED tag. During this session the sponsors can make short presentations in a nearby room, especially intended for practitioners (INDUSTRY MEETS PRACTICE).

Exhibition: INDUSTRY MEETS PRACTICE

Poster session I (odd numbered posters; Student competition)

| No. | First author | Title |
|-----|---------------------|--|
| P1 | Aardema H | Developmental competence and lipid droplet features of maturing bovine oocytes are affected by saturated and not by unsaturated fatty acids |
| P3 | Abavisani A | Leptin mRNA is present in bovine ejaculated spermatozoa |
| P5 | Anglada O | DNA fragmentation evaluation in fresh and frozen-thawed stallion spermatozoa |
| P7 | Aviles-Lopez K | Effect of porcine oviductal fluid on spermatozoa-zona pellucida binding |
| P9 | Balogh OG | Relationship between NEFA plasma concentrations and fertility in synchronized dairy cows |
| P11 | Beilby KH | Improving the use of sex-sorted ram spermatozoa for in vitro fertilisation (IVF) |
| P13 | Bossaert P | Immuno-histochemical insulin receptor staining in bovine follicles |
| P15 | Bucci D | Detection and localization of GLUTs 1, 2, 3 and 5 in donkey spermatozoa |
| P17 | Canovas S | Effect of heparin on pig in vitro fertilization |
| P19 | Casas I | Freezability of Piétrain boar ejaculates evaluated by sperm kinematics |
| P21 | Fabrega A | Pro/acrosin expression in epididymal spermatozoa from fertile boars |
| P23 | Falchi L | The effect of the local administration of FSH and/or misoprostol on cervical penetration in the ewe during the peri-ovulatory period |
| P25 | Falchi L | The expression of oxytocin receptor, cPhospholipase A ₂ and Cyclooxygenase 2 in the cervix of ewes during the oestrous cycle |
| P27 | Galvao A | TNF α and IFN γ receptors presence in the equine corpus luteum and their ligands effect on luteal cells viability |
| P29 | Galvao A | The Effect of cytokines on equine luteal production of nitric oxide and angiogenic activity and luteal cells viability |
| P31 | Galvao A | Expression of cytokines and their receptors in the equine endometrium during the estrous cycle |
| P33 | Garcia-Bonavila E | Dynamics of boar sperm morphology during co-incubation with epididymal explants |
| P35 | Garrels W | Modulation of telomerase activity in bovine embryos using cytoplasmatic plasmid injection |
| P37 | Gibb Z | Hoechst 33342 staining conditions affect the efficiency of sex-sorting stallion sperm |
| P39 | Henning H | Impact of storage on bicarbonate-induced motility stimulation in liquid-preserved boar semen |
| P41 | Hostens M | The effect of age at first calving on subsequent production in dairy cattle |
| P43 | Hostens M | The effect of marine algae supplementation in high yielding dairy cows during transition on metabolic parameters in the serum and follicular fluid early post partum |
| P45 | Izquiero-Rico MJ | Origin of ZP1 and ZP4 in golden hamster (<i>Mesocricetus auratus</i>) ovary |
| P47 | Janowski D | Developmental competence of bovine oocytes in subject to their follicular environment |
| P49 | Juarez JD | Fast cooling rates from 17 to 5°C do not impair frozen-thawed boar sperm quality |
| P51 | Karakaya E | Comparing of response to ovsynch protocol in ovular and anovular lactating dairy cows |
| P53 | Kermani moakhar H | Follicular responses of the right versus left ovaries to eCG treatment in Shall Iranian ewes |
| P55 | Kolkman I | Factors influencing dystocia in the double muscled Belgian Blue breed |
| P57 | Lapa M | Trans-10 cis-12 conjugated linoleic acid (CLA) reduces fatty acid (FA) content of bovine matured oocytes |
| P59 | Lopes BV | Use of ascorbic acid for freezing of canine semen and sub-fertile dogs |
| P61 | Moretti P | Integrin receptors on canine peripheral and endometrial lymphocytes |
| P63 | Nava-Trujillo H | Sperm chromatin fragmentation in cryopreserved semen of Brahman bulls measured with toluidine blue stain |
| P65 | Ortega Ferrusola C | Lipid peroxidation, assessed with BODIPY-C11, increases after cryopreservation of stallion spermatozoa, is stallion-dependent and is related to apoptotic-like changes |
| P67 | Ortega Ferrusola C | Inhibition of the mitochondrial permeability transition pore reduces "apoptosis like" changes during cryopreservation of stallion spermatozoa |
| P69 | Ortega-Ferrusola C | Susceptibility of ejaculated stallion spermatozoa to induced oxidative stress |
| P71 | Ramio-Lluch L | Mitofusin2 and Actin determination and localization in boar spermatozoa during "in vitro capacitation" and further acrosome reaction |
| P73 | Romaguera R | Relationship between follicle size and factors secreted by porcine oocytes and cumulus cells during maturation in vitro |
| P75 | Roman ER | Follicular dynamics in Creole and Rideau ewes in Mexico |
| P77 | Sattari A | Gastrointestinal helminthes of Iranian red foxes (<i>vulpes vulpes</i>) |
| P79 | Sharafi M | Ram semen in vitro fertility after cryopreservation using soybean lecithin and egg yolk based extenders |
| P81 | Shehab-El-Deen MAMM | Insulin like growth factor-1 rescues heat stressed bovine oocyte through improved cumulus cell viability |
| P83 | Sica A | Quality of extended chilled canine semen after recombinant Manganese Superoxide dismutase (rMn SOD) supplementation |
| P85 | Tas A | Effects of cell type and cell synchronization on embryo development following bovine nuclear transfer |
| P87 | Thilmant P | The use of B-mode ultrasonography to investigate uterine involution in lactating sows |
| P89 | Tramontano A | Role of Leptin and Ghrelin in nitric oxide production and angiogenic activity in the corpus luteum of the mare |
| P91 | Valente L | Equine endometrial cells: cytokine and hormones action on angiogenic activity |

Workshop session Science line I

Workshop 1: Bovine - Corpus Luteum Function

Moderator: G. Opsomer (BE)

Speaker 1: G.E. Mann (UK)

The use of *in vitro* analysis to study function in the bovine corpus luteum

Speaker 2: S. Cools (BE)

Is taking a biopsy a relevant technique to monitor bovine luteal function *in vivo*?

Workshop 2: Equine - ICSI-embryos in horses: state of the ART

Moderator: K. Hinrichs (USA)

Speaker 1: K. Hinrichs (USA)

Equine ICSI: history and current status

Speaker 2: S. Colleoni (I)

Practical applications of OPU, ICSI and IVC in equine reproduction

Workshop 3: Porcine - Lipid metabolism and reproduction in sows

Moderator: G.P. Martineau (F)

Speaker 1: C. Oliviero (FIN)

Factors affecting duration of farrowing

Speaker 2: B. Kemp (NL)

Lipids or carbohydrates as nutritional energy source for sows?

Workshop 4: Small Animal in conjunction with EVSSAR

Moderator: Wojtek Nizanski (PL)

Speaker 1: T. Rijsselaere (BE)

Use of cryopreserved semen for artificial insemination in dogs

Speaker 2: S. Schäfer-Somi (A)

Use of chilled semen in dogs

Workshop 5: Biotechnology - In vitro models for in vivo research

Moderator: P. Bols (BE)

Speaker 1: R. Cortvrindt (BE)

Gaining more and advanced knowledge for better risk assessment – Integration of in vivo and in vitro testing

Speaker 2: B.K. Campbell (UK)

The use of large domestic ruminants as models for the control of ovarian follicle development in monovulatory species

15.30-16.00 Coffee break and exhibition

16.00-17.30 **Parallel sessions**

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Poster session I (continued – odd numbered posters)

| No. | First author | Title |
|-------------|---------------------|--|
| P93 | Ahmadi MR | Comparison of milk production and reproductive performance of healthy cows and postpartum endometritis affected in Holstein dairy farm |
| P95 | Akcaay E | The effect of different dilution rates with Bioxcell [®] extender on frozen-thawed ram semen quality |
| P97 | Aloé S | Interactions of inseminate components with bovine uterine epithelial cells in an in-vitro model stimulating subclinical endometritis |
| P99 | Alvarez-Rodriguez M | Comparison of three extenders in the cryopreservation of electroejaculated semen of fighting bull |
| P101 | Ammar Bin Talib, A | Effect of vitamine E and selenium on body weight, spermatogenesis, and hematology in growing Awassi rams during the hot season |
| P103 | Anel L | Preliminary approach to salvage urospermic ejaculates of brown bear (<i>Ursus arctos</i>) |
| P105 | Arat S | Effect of growth factors on development of nuclear transfer embryos from cartilage cell of an Anatolian native cow |
| P107 | Arias-Alvarez M | Effect of a high-lignin rearing diet on follicular apoptosis and oocyte competence of primiparous lactating rabbits |
| P109 | Arrebola FA | Seasonality effect on semen production and sexual behaviour in male goats under controlled light regime |
| P111 | Arrighi S | Undernutrition during fetal to prepubertal life affects Aquaporin expression in the male genital tract of adult rats |
| P113 | Artl S | Use of a GnRH analogue implant in a male rabbit to suppress reproductive function – a case report |
| P115 | Atallah SA | Some data on the physico-chemical properties of oestral cervical mucus and fertility in buffaloes |
| P117 | Atallah SA | The serum progesterone and estradiol-17 β concentration in Egyptian buffaloes with peripartum vaginal or uterine prolapse |
| P119 | Atli MO | Expression of Wnt genes in equine endometrium at different stages of estrous cycle |
| P121 | Baranski W | Cytological and bacteriological findings in postpartum uterus of cows |
| P123 | Barrabes S | Study of the adaptation of technicians and boars to a new boar semen collection system |
| P125 | Beek J | Head-to-head agglutination of frozen-thawed boar spermatozoa in modified Tris-buffered medium |
| P127 | Bergqvist AS | Single layer centrifugation on a colloid of does not affect stallion sperm capacitation |
| P129 | Bhojwani S | Changes in mitochondrial activity and chromatin status in bovine oocytes and nuclear transfer embryos |
| P131 | Blanch E | Cholesterol and amides in the freezing extender influence in vitro fertilizing ability of frozen-thawed boar sperm |
| P133 | Blitek A | HoxA10 expression in the porcine endometrium – effect of reproductive status and in vitro treatment with estradiol and progesterone |
| P135 | Budik S | Comparison of the protein pattern of uterine lavage fluid from pregnant and non pregnant mares at different time points after ovulation |
| P137 | Buranaamnuay K | Use of glycerol or amides, along with antioxidants fails to improve quality of frozen-thawed boar sperm |
| P139 | Bussalleu E | A PCR technique to detect the PRRSV virus in blood and semen samples in boar |
| P141 | Caluwaerts T | The relationship between the increasing ratio of milk yield in the first part of lactation and the moment of first recorded heat in dairy cows |
| P143 | Cardinali R | Role of seminal fractions of rabbit semen in intra-tubular insemination |
| P145 | Carmo AS | Assessment of efficiency of a short protocol based on ovulation rate, ovulation per animal, and diameter of corpus luteum in Santa Inês and Ile de France anestrous ewes |
| P147 | Caspari K | Life born piglets after superovulation and embryo transfer (ET) in a nucleus pig farm in Switzerland |
| P149 | Catone G | Presence and enzymatic activity of COX1, COX2 and NOS in bovine corpora lutea during luteal phase |
| P151 | Cech S | Progesterone treatment of ovarian dysfunctions in dairy cows |
| P153 | Cinar B | Effects of different extenders and cryopreservation/thawing process on subcellular changes in bovine sperm determined by flow cytometry |
| P155 | Cocchia N | Cryopreservation of immature cat oocytes by vitrification in open-pulled straws (OPS) |
| P157 | Contreras-Solis I | Effectiveness of oestrus synchronization in cyclic hair ewes based on the combined use of a short-term cloprostenol protocol and the “ram effect” |
| P159 | Daskin A | The effect of sperm concentration on motility, plasma and acrosomal membranes of frozen Angora goat sperm |
| P161 | De Ambrogi M | Effect of infusion of glucose and hemi-ovariectomy on ovarian follicles and hormonal levels in sheep |
| P163 | De Schauwer C | Comparison of different methods to isolate and culture multipotent mesenchymal stromal cells from equine umbilical cord blood |

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|-------------|------------------------|--|
| P165 | Dirandeh E | Follicular responses of the right versus left ovaries to GnRH injection in Iranian Holstein cows |
| P167 | Dominguez Rebolledo AE | Comparison of three extenders for the cryopreservation of epididymal spermatozoa in red deer (<i>Cervus elaphus hispanicus</i>) |
| P169 | Dorado J | Effect of egg yolk and centrifugation on sperm motility of canine chilled semen |
| P171 | Drillich M | Comparison of bacteriological and cytological findings in dairy cows with clinical endometritis |
| P173 | Dzieciol M | Preliminary researches of using a Holter monitor to analyse animal sexual behaviour on the example of the dog (<i>Canis familiaris</i>) |
| P175 | Feitsma H | Comparing the results of fresh and frozen semen used for international linkage of nucleus herds for pig breeding |
| P177 | Feliciano MAR | Ultrasonographic detection of fetal ovary in <i>Chrysocyon brachyurus</i> (Maned Wolf) – case report |
| P179 | Filla J | Quality of estrus induced by progesterone in mares during transition period |
| P181 | Findik M | Pseudohermaphroditism in a Saanen goat |
| P183 | Fjerdingsby N | Reproductive performance of heifers submitted to rectal palpation by inexperienced veterinary students |
| P185 | Flores JA | The reduction in the male/female ratio does not reduce the ability of sexually active males to induce the sexual activity in anovulatory female goats |
| P187 | Gabor G | The effect of calving procession for the occurrence and frequency of metritis and irregular luteal forms (ILF) on ovaries in the postpartum dairy cows |
| P189 | Galeati G | Daidzein affects progesterone secretion by cumulus cells but not IVM-IVF of pig oocytes |
| P191 | Gamez MTD | Characterization of follicular dynamics in Charolais cows |
| P193 | García-García RM | Influence of a lignified rearing diet on ovulation rate and embryo survival of primiparous rabbit does |
| P195 | García-Marin LJ | Platelet activating factor in porcine spermatozoa: receptor expression and regulation of the acrosome reaction |
| P197 | García-Vazquez F | Two cases of chromosomal translocation in piglets produced by ICSI |
| P199 | Gil MC | Effects of the storage and commercial semen extenders on the characteristics of sperm motility in semen doses of Duroc and Iberian pigs |
| P201 | Govaere J | Placental characteristics in Belgian Draught and Warmblood horses |
| P203 | Gumen A | Effects of reducing interval from GnRH to PGF2 α in ovsynch protocol on conception rate in cyclic lactating dairy cows |
| P205 | Guzeloglu A | Estrogen receptor (ER) α , ER β and progesterone receptor (PR) expression in equine endometrium during estrous cycle and early pregnancy |

Workshop session Practitioners line I

Workshop 6: Bovine – Herd health and fertility management

Moderator: A. de Kruif (BE)

Speaker 1: T. Caluwaerts (BE)

Monitoring reproduction in modern dairy herds

Speaker 2: C. Hudson (UK)

Herd health and production monitoring in UK dairy herds

Workshop 7: Equine – Post-breeding endometritis: local antibiotics vs. systemic treatment with ecbolic hormones

Moderator: M. LeBlanc (USA)

Speaker 1: C. Aurich (A)

Antiphlogistic treatment of mares with post-breeding endometritis for the improvement of fertility

Speaker 2: M.M. LeBlanc (USA)

Does administration of dexamethazone or N-acetylcysteine improve pregnancy rates in mares with persistent mating induced endometritis?

Workshop 8: Porcine – Hyperprolific sows: physiological or pathological

Moderator: S. Boulot (FR)

Speaker 1: O. Peltoniemi (FIN)

Reproductive problems in hyperprolific sows

Speaker 2: N. Buys (BE)

Genetic approaches to improve reproduction traits of hyperprolific sows

Workshop 9: Small Animal in conjunction with EVSSAR

Moderator: A.R. Günzel-Apel (GER)

Speaker 1: A.R. Günzel-Apel (GER)

Diagnostic value of ultrasonography and radiography in canine pregnancy and parturition

Speaker 2: A. Fontbonne (F)

Indications for vaginal endoscopy in the bitch

18:30 Departure for reception and buffet dinner Veterinary school - demonstration of Belgian cattle and horses

SATURDAY, 12th September 2009

9.15-10.35 **Plenary Session III**: Aspects of embryo development

(Chair: Juan Vazquez)

Speaker 1: P. Maddox-Hyttel (DK)

From zygote to implantation: morphological dynamics during embryo development in the pig

Speaker 2: H. Leese (UK)

The quiet embryo hypothesis

10.35-11.00: Coffee break and exhibition

11.00-12.30: **Parallel sessions**

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Exhibition INDUSTRY MEETS SCIENCE

Poster session II (even numbered posters)

| NO. | First author | Title |
|-----|-------------------|--|
| P2 | Hajurka J | Alteration of pregnant uterine horn in two subsequent pregnancies in the cows |
| P4 | Hälli O | The prevalence of porcine parvovirus antibodies in wild boars in Finland |
| P6 | Hegedusova Z | Content of acetone and urea in cervical mucus in cows |
| P8 | Hernandez H | Exposing lactating subtropical goats to artificial long days during autumn prolongs postpartum anovulation period and reduces milk protein content |
| P10 | Hernandez H | Maize supplementation in goats during the last 12 days of pregnancy improve some factors associated with kid's survival |
| P12 | Hidalgo M | Assessment of different sperm categories in canine ejaculates |
| P14 | Hoedemaker M | Factors of perinatal mortality in dairy cattle - a survey in Thuringia/Germany |
| P16 | Honnens A | Doppler sonography of luteal blood flow in recipient cows of an embryo transfer program |
| P18 | Hoogewijs M | Effect of egg yolk in skimmed milk extender on cooled preservation of equine semen |
| P20 | Jezkova A | Comparison of estrus induction in bitches |
| P22 | Jimenez E | Comparative study between sperm and morphological features in feline testes |
| P24 | Jiwakanon J | Effect of seminal plasma, spermatozoa and extender on TGF- β 1 mRNA expression in the gilt oviduct |
| P26 | Jiwakanon J | The cytokines TGF- β 1, IL-10 and IL-6 in boar seminal plasma |
| P28 | Kaczmarek MM | Seminal plasma affects angiogenesis in the porcine endometrium |
| P30 | Kafi M | Ovarian responses following the use of ovsynch program in the presence or absence of the dominant follicle in dairy heifers |
| P32 | Kareskoski AM | SDS-PAGE of seminal proteins in fractionated stallion ejaculates |
| P34 | Kausch M | Risk factors for stillbirths in Holstein Friesian heifers and cows |
| P36 | Keskin A | Effect of hCG vs. GnRH at the beginning of the ovsynch protocol on ovulation and conception rate in cyclic lactating dairy cows |
| P38 | Khalifa TAA | Glutathione peroxidase activity in buffalo seminal plasma |
| P40 | Klewitz J | Effect of semen storage on sperm chromatin integrity and its relation to fertility of stallions |
| P42 | Klewitz J | Flow cytometric evaluation of capacitation and acrosome reaction of stallion spermatozoa |
| P44 | Kohram H | The effect of GnRH injection on plasma progesterone and estradiol concentrations in Water Buffalo |
| P46 | Köllmann M | Luteal and genital blood flow in mares in a superovulation program |
| P48 | Kubesova M | The effect of body condition level and its change on reproduction in Czech Fleckvieh cows |
| P50 | Kubesova M | Body weight change after parturition of Holstein and Czech Fleckvieh cows and their reproduction efficiency |
| P52 | Kulaksiz R | Some andrological evaluations in Karayaka rams localized in Anatolia |
| P54 | Kumar D | Comparison of source material for isolation of Buffalo embryonic stem cells |
| P56 | Lange Consiglio A | Morphometric characteristics and chromatin integrity of male gametes in three Italian dog breeds |
| P58 | Lopatarova M | The effect of BIO, GSK3 inhibitor, on meiotic maturation of cattle oocytes |
| P60 | Lopes G | How worried should one get when bull frozen semen is accidentally exposed to room temperatures? |
| P62 | Lourenco L | Histochemical study of dog cryptorchid testes |
| P64 | Lymberopoulos AG | Effect of antioxidants on freezability of goat semen |
| P66 | Mällo GK | Analysis of insemination results compared to activity alarms and progesterone measurements in dairy cows |
| P68 | Martins A Jr | The presence of BoHV-5 in the culture medium affects the in vitro bovine embryo development |
| P70 | Michailidis G | Effects of age and salmonella infection on the expression of avian beta-defensin 12 in the ovary and oviduct of laying hens |
| P72 | Michailidis G | Expression analysis of zygote arrest 1 (ZAR1) and ZAR1-like genes in the chicken reproductive tract and embryos |
| P74 | Minoia R | Naloxon's effects on nitric oxide production and capacitation in post-thawed buffalo (<i>Bubalus bubalis</i>) sperm |
| P76 | Mirzaei A | Interrelationships among ovarian activity and metabolites in dairy cows |
| P78 | Mirzaei A | Cold stress adversely affects the accuracy of oestrous detection in dairy cows |
| P80 | Morrell J | The chromatin integrity of stallion spermatozoa is maintained better in INRA96 than in Kenney's extender during cool storage |
| P82 | Muino R | Effects of cryopreservation on the motile sperm subpopulations determined in semen from Asturiana de los Valles bulls |
| P84 | Najjar A | Semen evaluation of Tunisian arabian stallions |
| P86 | Nilsson M | The calf extractor - a helping hand? |
| P88 | Novotny F | Effects of glucogenic feeding supplement on metabolic condition in dairy cows during transition period |
| P90 | Oliveira MEF | Evaluation of the ovulation time and estrus submitted to short protocol in Santa Inês and Ile de France anoestrus ewes |

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| P92 | Pancarci SM | Nitric oxide levels in follicular fluid with respect to follicular blood flow and deviation in cows |
| P94 | Parillo F | Glucidic determinants in the seminal vesicles of the stallion and castrated horse |
| P96 | Parillo F | Expression of nitric oxide synthase (NOS) in the ductuli efferentes and epididymis of prepubertal and adult alpaca (Lama pacos) |
| P98 | Parillo F | Immunolocalization of cyclooxygenases in the ductuli efferentes and epididymis of prepubertal and adult alpaca (Lama pacos) |
| P100 | Parlevliet JM | Cefquinome as a treatment for <i>Taylorella equigenitalis</i> in the stallion |
| P102 | Parlevliet JM | Intrauterine cefquinome concentrations in the mare after intravenous administration of Cobactan 4.5%® |
| P104 | Pascal C | Research regarding the influence of natural factors on activity and reproductive behaviour rams |

Workshop session Practitioners line II

Workshop 10: Bovine - Heifer and CNS mastitis

Moderator: S. De Vliegher (BE)

Speaker 1: S. Piepers (BE)

Heifer mastitis: it is all about a good start!

Speaker 2: K. Supré (BE)

Coagulase-negative staphylococci – friends or foes?

Workshop 11: Equine - Embryo transfer in mares

Moderator: P. Daels (BE)

Speaker 1: D. Necchi (I)

Different methodologies for embryo collection, embryo transport and transplantation

Workshop 12: Porcine - Mycotoxins and germ cell quality

Moderator: J. Kauffold (GER/USA)

Speaker 1: I.A. Tsakmakidis (GR)

Effects of mycotoxins on boar spermatozoa quality

Speaker 2: H. Alm (GER)

Effects of mycotoxins on oocyte maturation *in vivo* and *in vitro* in pigs

Workshop 13: Small Animal in conjunction with EVSSAR

Moderator: J. De Gier (NL)

Speaker 1: M. Reichler (CH)

The role of gonadotropins in the pathophysiology of spay-induced urinary incontinence in the bitch

Speaker 2: A.C. Schaeffers-Okkens (NL)

Oestrus prevention in the dog: ovariectomy always the best choice?

12.30-14.00 Lunch and exhibition

14.00 -15.00 **Three parallel oral communications (15 min. incl. discussion)**

| Oral Communication 4: Reproduction in cows | | | |
|---|--------------|-------------|---|
| OC4-1 | Kucukaslan I | Turkey | Use of echo-texture parameters for the determination of different degree endometritis in cows and evaluation of the recovery period after treatment |
| OC4-2 | Garmo RT | Norway | Characterization of progesterone profiles in norwegian red cows |
| OC4-3 | Keller C | Switzerland | The use of dominant frequency analysis in time series of myometrial contractility in the organ bath in cattle: a methodic approach |
| OC4-4 | Pfiser T | Germany | Influence of oestrus cycle on somatic cell count in dairy cows |
| Oral communication 5: Pregnancy in Mares | | | |
| OC5-1 | Khalifa TAA | Greece | Does Buserelin decrease pregnancy losses in broodmares? |
| OC5-2 | Govaere J | Belgium | The Foalinmare: insights inside the foaling mare |
| OC5-3 | Palm F | Austria | Gene expression of steroid and oxytocin receptors, pro-inflammatory cytokines and aquaporins in the endometrium of postpartum mares |
| OC5-4 | Willmann C | Austria | Effects of altrenogest treatment of early pregnant mares on pregnancy rate, conceptus development and plasma progesterone concentration |
| Oral communication 6: Pregnancy in Cows | | | |
| OC6-1 | Brickell JS | U.K. | Polymorphisms in the leptin gene associated with perinatal mortality in dairy heifers |
| OC6-2 | Raddatz S | Germany | Selectively decreased gene expression of the chemokine CCL5 and tumour necrosis factor- α during early pregnancy in the bovine corpus luteum |
| OC6-3 | Dinc DA | Turkey | Pregnancy rates (PR) after different ovulation synchronization and resynchronization methods in dairy heifers |
| OC6-4 | Polat B | Turkey | Interrelationships among subclinical mastitis indices and their relevance to udder skin temperature |

15.00-15.30 Coffee break and exhibition

15.30-17.00 **Parallel sessions**

During these sessions the participants can either choose to attend one of the parallel workshop sessions (Science line-species related) or, if they are not interested in the workshops, they can attend the poster session. Posters which are interesting for practitioners will be identified with a GREEN tag, posters which are interesting for scientists will receive a RED tag.

Poster session II (continued - even numbered posters)

| No. | First author | Title |
|-------------|---------------------|--|
| P106 | Paulo PS | Study of cytoskeletal proteins and alkaline phosphatase in dog cryptorchid testes |
| P108 | Payan-Carreira R | E-cadherin expression in canine endometria |
| P110 | Petrovicova I | Nuclear and nucleolar remodelling during the first cell cycle in bovine somatic cell nuclear transfer (SCNT) and tetraploid embryos (TP) |
| P112 | Pieroni JSP | Histological study of uterine horn from heifers simulating bovine embryos recipients |
| P114 | Pires-Buttler EA | Effect of progesterone and hCG supplementation on nuclear maturation of bitch oocytes obtained during different stages of oestrus cycle: pilot study |
| P116 | Price SB | Physiological and pathological secretion of prostaglandins by bovine endometrial cells |
| P118 | Prinosilova P | Effect of hyaluronan supplementation on dog sperm motility and membrane integrity after cryopreservation |
| P120 | Prvanovic N | Application of fetometry in following fetal growth and predicting birth weight in Charolais cows |
| P122 | Quaresma M | Bilateral ovarian cystadenoma in jennets |
| P124 | Rehak D | Association between negative energy balance during pregnancy in lactating Holstein and Czech Fleckvieh cows and birth weight of their calves |
| P126 | Risvanli A | The use of Kisspeptin antibodies on delayed estrus in rats |
| P128 | Rivera del Alamo MM | Interleukin-1 β , Interleukin-6 and Tumour Necrosis Factor- α expression on equine endometrium determined by immunohistochemistry |
| P130 | Ruiz S | Early fertilization events in bovine IVF employing OPU-oocytes and sex-sorted frozen/thawed sperm |

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|-------------|-------------------|---|
| P132 | Samartzi F | Effect of eCG on steroid hormone concentrations and plasminogen activator activity in the genital tract of ewes |
| P134 | Samartzi F | Effect of eCG on the activity of Glucosidases in the genital tract of ewes |
| P136 | Samiec M | The use of flow cytometrics for simultaneous measurement of cell cycle and late apoptosis in lipofected porcine fetal fibroblasts prior to somatic cell cloning |
| P138 | Sanchez-Berna C | Follicular growth pattern in Andalusian jennies (<i>Equus asinus</i>) |
| P140 | Santiago-Moreno J | High levels of parasitism do not negatively affect gametogenic function in Spanish ibex (<i>Capra pyrenaica</i>) males |
| P142 | Santos Filho AS | Effect of treatment time whit acetate of medroxyprogesteron in ovulation number in sheep Santa Inês |
| P144 | Santos MRC | Application of equine follicular fluid (EFF) to creole synchronized ewes |
| P146 | Sattari A | Determination of morphologic characters of intestinal helminthes in dog |
| P148 | Silva E | Biofilm formation by <i>Escherichia coli</i> isolates recovered from the uterus of dairy cows |
| P150 | Silva E | Genomic characterization of <i>Escherichia coli</i> isolates recovered throughout the puerperium of dairy cows with or without clinical metritis |
| P152 | Silva E | Bovine embryo development after in vitro fertilization of oocytes with sperm infected with BoHV-5 |
| P154 | Singh KP | Expression of Rex-1 gene in parthenogenetically derived buffalo embryos and generated embryonic stem cells |
| P156 | Skrzyzowska M | Development of porcine cloned embryos following the novel method of pseudophysiological activation |
| P158 | Spinaci M | Seminal plasma associated with either EGCG or SOD increases viability of sorted boar spermatozoa after 24 h storage |
| P160 | Stadnik L | The relationships among recovery of ovarian functions after calving, level of progesterone in milk, and reproduction results in dairy cows |
| P162 | Stadnik L | Qualitative traits of rams' semen in the Czech autochthonous breeds Sumava and Wallachia sheep |
| P164 | Stadnik L | Sperm quality of postpubescent bulls in chosen breeding groups introduced to artificial insemination |
| P166 | Sturmey RG | Prospective non-invasive metabolic selection of bovine zygotes with high developmental potential |
| P168 | Swangchan-Uthai T | Effects of lipopolysaccharide (LPS) on gene expression in bovine endometrium |
| P170 | Taylor U | In situ hybridisation of telomere sequences in condensed and decondensed bovine spermatozoa before and after sex sorting |
| P172 | Tomas C | Exposure fresh sperm to cholesterol-loaded cyclodextrins improves in vitro fertilizing ability of frozen-thawed boar sperm |
| P174 | Towhidi A | In vitro comparison of two egg yolk-free extenders for cryopreservation of Iranian Holstein bull semen |
| P176 | Tsakmakidis IA | Field-fertility of porcine semen |
| P178 | Tsakmakidis IA | In vitro effect of zearalenone and α -zearalenol on the plasminogen activator activity (PAA) of boar sperm after induced acrosome reaction (AR) |
| P180 | Tsiligianni T | Effects of progesterone and estradiol 17- β on ovulation and cervical mucus characteristics in superovulated cows |
| P182 | Usturoi MG | Improvement of reproduction activity at the Ross hybrid breeders through the optimization of the lighting schedule |
| P184 | Vaclavkova E | Influence of backfat thickness on reproduction parameters in Czech landrace gilts |
| P186 | Vahedi V | Retinoic acid effects on nuclear in vitro maturation of bovine oocytes |
| P188 | van Wienen MFP | Improvement in boar sperm morphology by single layer centrifugation using Androcoll™-P |
| P190 | Vanderhaeghe C | Effect of altrenogest on prevention of early parturition and reproductive performance in sows |
| P192 | Veronesi MC | Lysozime concentrations in serum and mammary secretions of jennies and in serum of donkey foals: preliminary results |
| P194 | Vullers A | Monozygotic equine twins after transfer of a single embryo |
| P196 | Westermann S | Elimination rate for <i>A. pyogenes</i> in dairy cows with clinical endometritis treated systemically with Ceftiofur or Cloprostenol |
| P198 | Williams EJ | Live weight at calving as a predictor of postpartum energy status and uterine infection in dairy cows |
| P200 | Witte TS | Ceftiofur derivates in serum and endometrial tissue after intramuscular administration to healthy mares |
| P202 | Yeste M | Boar spermatozoa do not induce changes in Heat shock protein gene expression without direct contact with oviductal epithelial cells |
| P204 | Yilmazbas G | Effects of GnRH, PGF2 α and oxytocin treatments on conception rate at the time of artificial insemination in lactating dairy cows |
| P206 | Zhandi M | Insulin like growth factor-1 failed to increase developmental competence of in vitro maturing bovine oocyte under the heat shock |

Workshop session Science line II

Workshop 14: Bovine - Fatty Acids in bovine reproduction

Moderator: J. Leroy (BE)

Speaker 1: A.A. Fouladi-Nashta (UK)

Diverse effects of polyunsaturated fatty acids on oocyte maturation and development in vitro

Speaker 2: S.T. Butler (IRL)

The effect of dietary lipids on energy balance and bovine fertility

Workshop 15: Equine - Pathogen transmission through breeding

Moderator: J. Govaere (BE)

Speaker 1: J.F. Bruyas (F)

Risk of pathogen transmission through breeding in horses

Speaker 2: J.M. Morell (SE)

Prevention of pathogen transmission through breeding in horses

Workshop 16: Porcine - Embryonic survival in pigs

Moderator: D. Maes (BE)

Speaker 1: H.-J. Schuberth (GER)

Current immunological concepts explaining the survival and rejection of embryos/foetuses in the pregnant sow

Speaker 2: M.A. Gil (E)

Effect of sperm technologies on preimplantation development of porcine embryos

Workshop 17: Small Animal in conjunction with EVSSAR

Moderator: T. Rijsselaere (BE)

Speaker 1: E. Axné (SE)

Semen collection and cryopreservation of semen in cats

Speaker 2: G.C. Luvoni (I)

Slow freezing vs. vitrification of oocytes and embryo cryopreservation in the cat

Workshop 18: Biotechnology - Stem cells in veterinary research

Moderator: A. Van Soom (BE)

Speaker 1: T. Koch (DK)

Isolation and identification of equine cord blood stem cells

Speaker 2: B.A.J. Roelen (NL)

From embryos to stem cells and back

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| 17.15-17.25 | Closure ESDAR 2009/AI Vets Annual conference |
| 17.25-17.50 | Annual business meeting ESDAR |
| 17.50-18.15 | Annual Business Meeting ECAR |
| 20.15-24.00 | Conference Gala Dinner (Castle of the Counts) |

SUNDAY, 13th September 2009

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| 10.00-12.00 | Guided visit of Ghent |
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