

ESDAR Conference 2017

Scientific Programme

Thursday 24th August 2017

14:00-17:30 ESDAR Board meeting – Vetsuisse Faculty, University of Bern

18:00-19:30 Welcome Reception of ESDAR,
Pädagogische Hochschule Bern, Hochschulzentrum von Roll,
Fabrikstrasse 6, CH – 3012 Bern

Friday 25th August 2017

08:15-10:50 Opening and plenary session I. Chair – Gaby Hirsbrunner / Mark Crowe /
Barbara Knutti

08:15-08:30 Opening Session
Mark Crowe, President of ESDAR
Gaby Hirsbrunner, Chair of the Local Organizing Committee

08:30-09:10 Keynote lecture 1:
Mastitis – reduction of antibiotics
(**Volker Krömker**; University of Applied Sciences and Arts, Hannover,
Germany).

09:10-09:50 Keynote lecture 2:
Puberty
(**Geert Opsomer**; Ghent University, Belgium).

09:50-10:20 *Coffee break*

10:20-11:00 Keynote lecture 3:
Inflammation and fertility in the mare
(**Mette Christoffersen**; University of Copenhagen, Denmark).

11:05-12:45 **Oral communications YSC (Young scientist competition)** Chair - Mark Crowe
5 Min presentation , 1 Min discussion

Y1 Insulin supplementation during in vitro maturation induces changes in
morphology and molecular signature in bovine Day 8 blastocysts
(D. **Laskowski** 27)

Y2 Do we need antibiotics in stallion semen extenders? (Z. **Al-Kass** 66)

- Y3 Fine-tuning sperm DNA fragmentation dynamics over seasons
(C. **Quiñones Pérez** 192)
- Y4 The presence and localization of resistin in the sheep uterus: impact of diets characterized by different chemical composition. (C. **Pirino** 231)
- Y5 Associations between progesterone level on the day of prostaglandin F2 α administration, increased activity around timed AI and pregnancy rate in Ovsync treated Holstein cows (H. **Kiiver** 256)
- Y6 Nitric oxide in boar seminal plasma (I. **Barranco** 264)
- Y7 Pregnancy effect on echocardiographic parameters in Great Dane bitches (S. **Alonge** 268)
- Y8 Immunohistochemical localization of interleukin 10 in genital tract of fertile boars (L. **Padilla** 344)
- Y9 Editing MC1R gene in Chinese Luchuan pig using CRISPR/Cas9 (X. **Shi** 339)
- Y10 Involvement of cytoskeleton in mobilization of calcium from intracellular stores of porcine oocytes stimulated by prolactin (Y. **Ussenbekov** 72)
- Y11 Cryotolerance of fractionally collected canine spermatozoa (D. **Gradinarska** 98)
- Y12 Trans-Rectal Semen Collection and Artificial Insemination in Angora Goat (K. **Tekin** 139)
- Y13 The dynamic expression patterns and correlation of Tet1 and WNT pathway genes in early fetal tissues of goat (Y. **Zhao** 235)
- Y14 Sperm morphology differences associated with pig fertility (A. **Mandawala** 69)
- Y15 Variability of equine fetal volume during early pregnancy measured by three-dimensional transrectal ultrasonography (N. **Tzanidakis** 226)

12:45-14:00 *Lunch break*

13:10-14:00 Lunch meeting of the ESDAR Country Representatives

14:00-15:30 **Poster session I (odd numbers)**

15:30-16:00 *Coffee break*

16:00-17:30 **Parallel workshops 1-5** (WS1 starts 15:45!)

**WS 1. Innovations for a better learning in animal reproduction -
Christian Hanzen (Université de Liège, Belgium)**

- An E-learning teaching module supports active learning and improves understanding of the regulation of oestrous cycles of domestic species – Herman **Jonker** (Utrecht University, The Netherlands)
- Reproductive endocrinology wet lab – Andres **Waldmann** (Estonian University of Life Sciences)
- Using formative assessments when teaching theriogenology in the veterinary curriculum in Nottingham, UK – Wendela **Wapenaar** (University of Nottingham, Great Britain)

WS 2. Mastitis - Michèle Bodmer

- Reduction of antimicrobial use in the field of mastitis: the Swiss approach – Michèle **Bodmer** (University of Bern, Switzerland).
- Successful reduction of antibiotics, the Norwegian way – Olav **Østerås** (TINE SA, Norway)

WS 3. Swine reproduction – Johannes Kauffold

- The modern production sow - Challenges ahead! – Johannes **Kauffold** (University of Leipzig, Germany)
- Use of real time ultrasound to monitor reproductive health of the hyper prolific sow around farrowing – Olli **Peltoniemi** (University of Helsinki, Finland)

WS 4. Assisted reproductive techniques in mares – Carolina Herrera

- Assisted reproduction in the mare: Setting up a successful program – Carolina **Herrera** (University of Zurich, Switzerland)
- Success rates in a commercial equine in-vitro embryo production program – Anthony **Claes** (Utrecht University , The Netherlands)
- Collection of oocytes from ovaries from deceased mares – Elise **Jeannerat** (University of Bern, Switzerland)

WS 5. Immunocontraception in cattle and horses – Gaby Hirsbrunner

- Indications of immunization against GnRH in cattle – Gaby **Hirsbrunner** (University of Bern, Switzerland)
- Immunocontraception of horses with the porcine zona pellucida vaccine: effects and possible mechanisms – Henk **Bertschinger** (University of Pretoria, South Africa)

17:35-18.15 **ESDAR annual business meeting**

19:45 **BBQ and dancing** (Inforama Rütli, Zollikofen)

Saturday 26th August 2017

08:30-09:50 **Plenary Session II.** Chair - Geert Opsomer

08:30-09:10 Keynote lecture 4:
Gene editing (Björn Petersen; Friedrich-Loeffler-Institut, Germany).

09:10-09:50 Keynote lecture 5:
Molecular aspects in canine pyometra (Ragnvi Hagman; Swedish University of Agricultural Sciences).

09:50-10:15 *Coffee break*

10.15-11:15 **Oral communications 1-4**

Oral communications session 1 (obstetrics): chaired by Ulrich Bleul

- 1.1 Are pre-partum plasma progesterone concentrations a valid tool to predict the onset of parturition in HF dairy cows? (J. **Parlevliet** et al. -112 - The Netherlands).
- 1.2 Treatment efficacy for experimentally induced ascending placentitis in mares (I. **Canisso** et al - 26 - US).
- 1.3 Season effects on equine foetal and neonatal development (E. **Beythien** et al – 68 - Germany).
- 1.4 Dose finding of intravaginal Prostaglandin E2 application in farrowing sows during parturition (R. **Bill** et al - 60 - Switzerland).

Oral communications session 2 (andrology): chaired by Primoz Klinc

- 2.1 Functional status and miRNA profile of cryopreserved bovine sperm (E. **Malama** et al. - 278 - Switzerland).
- 2.2 Anti-Müllerian Hormone profiling in prepubertal stallions with abnormal testicular development (D. **Scarlet** et al. -248 - Austria).
- 2.3 In vivo imaging of horse sperm transit and mobility in the mare genital tract (E. **Caldas** et al. - 227 - France).
- 2.4 Diffusion weighted imaging in canine prostate gland diagnosis with magnetic resonance imaging (K. **Lorenc** et al. - 299 - Poland).

Oral communications session 3 (miscellaneous): chaired by Carlo Tamanini

- 3.1 Cortisol claws concentrations in dogs from birth to 60 days of age (J. **Fusi** et al. - 92 - Italy).

- 3.2 Cell type-specific analysis of the endometrial transcriptome during the period of recognition of pregnancy in the pig (St. **Bauersachs** et al. -58 - Switzerland).
- 3.3 In vitro culture of equine endometrial biopsies as a model for the development of new uterine treatments (M. **Rossi** et al. - 15 – Italy).
- 3.4 Effects of luteotropic factors on nuclear maturation of bovine oocytes during two-step in vitro culture (I. **Lebedeva** et al. - 216 – Russia).

Oral communications session 4 (herd health): chaired by Michèle Bodmer

- 4.1 Inferior quality of follicular fluid of ovulatory follicles: a possible cause of repeat breeding syndrome in dairy heifers (M. **Kafi** et al. - 82 - Iran).
- 4.2 Coagulase-negative staphylococci in the teat canal and in milk in four commercial Swiss dairy herds (J. **Traversari** et al. -109 - Switzerland).
- 4.3 Associations between the calving to first artificial insemination interval and reproductive performance in Norwegian Red Cattle (N. **Fjeringby** et al. - 111 – Norway).
- 4.4 Comparison of thyroid hormones secretion in cyclic cows and cows with cystic ovarian follicles (A. **Zagrajczuk** et al. - 237 – Poland).

11:20-12:50

Parallel Workshops 6-9

WS 6. Eradication of BVD – where are the cruxes? Renée Båge

- The eradication of bovine viral diarrhoea in Sweden – Renée **Båge** (Swedish University of Agricultural Sciences)
- Swiss BVD eradication program - Christoph **Keller** (Veterinary Service Canton Bern, Switzerland)

WS 7. Regulation/maintenance of canine and feline pregnancy - Sabine Schäfer-Somi

- Regulation/maintenance of canine and feline pregnancy – Sabine **Schäfer-Somi** (University of Vienna, Austria).
- Establishment and maintenance of canine pregnancy – Mariusz **Kowalewski** (University of Zurich, Switzerland)

WS 8. Assisted biotechnology in females – Sylvie Chastant

- Assisted biotechnology in females: a comparative overview – Sylvie **Chastant** (Toulouse National Vet School, France) & Marie **Saint-Dizier** (Centre INRA, France)

WS 9. Omics technologies – Andrzej Ciereszko

- Proteomic insights into the mechanism of sperm quality – Andrzej **Cierieszko** (Polish Academy of Science)
- Metabolome profiling and its relationship to sperm quality - Sean **Fair** (University of Limerick, Ireland)

12:50-14:00 *Lunch break*

14:00-15:30 **Poster session II (even numbers)**

15:30-15:50 *Coffee break*

15:50-16:50 Oral communications 5-8

Oral communications session 5 (spermatology): chaired by Ulrich Witschi

- 5.1 Effects of increasing equilibration time of diluted bovine semen up to 72 hours before freezing on in vitro and in vivo fertility (E. **Murphy** et al. -59 - Ireland).
- 5.2 Agglutination of equine spermatozoa during in vitro capacitation is a cation-mediated phenomenon (G. **Podico** et al. - 75 - Italy).
- 5.3 Post-thaw bull sperm quality in different seasons in Thailand (T. **Nongbua** et al. – 128 - Sweden).
- 5.4 Short-term preservation (4°C) of epididymal spermatozoa obtained through retrograde flushing in dromedary camel (*Camelus dromedarius*) (M. **Batista-Arteaga** et al - 131 - Spain).

Oral communications session 6 (gynaecology): chaired by Graça Ferreira-Dias

- 6.1 Vaginal discharge following artificial insemination of sows in a multisite sow pool system (A. **Grahofer** et al. - 38 - Switzerland).
- 6.2 Periparturient clinical performance differs between genetically selected cows (M. **Meyerholz** et al. -177 – Germany).
- 6.3 Antibiotic treatment of metritis in dairy cows – a meta-analysis. (P. **Haimerl** et al. - 292 - Germany).
- 6.4 Molecular interactions between 2,3,7,8-tetrachlorodibenzo-P-dioxin (TCDD) and porcine estrogen receptors (A. **Nynca** et al. - 133 - Poland).

Oral communications session 7 (behaviour): chaired by Geert Opsomer

- 7.1 Preovulatory progesterone plays a role for estrus length but not ovulation and estrus behavior (T. **Janowski** et al. - 281 - Poland).
- 7.2 Advancement of puberty in autumn-born goat kids by exposure to sexually active bucks (M. **Chasles** et al. -211 - France).

- 7.3 Transport related stress response in pregnant and postpartum mares (Ch. **Nagel** - 209 - Austria).
- 7.4 Evaluation of steroid concentrations in the saliva of pre-pubertal gilts for the identification of biomarkers of the pubertal stage of maturity (G. **Goudet** et al. - 17 – France).

Oral communications session 8 (embryology): chaired by Heinrich Bollwein

- 8.1 Introducing karyomapping to the cattle breeding industry: Use of a comprehensive preimplantation genetic test to optimise the delivery of superior genetics (K. **Turner** et al. - 178 - Great Britain).
- 8.2 On-farm ovum pick-up in Holstein cows and in vitro production of embryos in Estonia (A. **Kavak** et al. -210 - Estonia).
- 8.3 Embryo recovery and quality of embryos produced with sex-sorted semen from superovulated dairy heifers (J. **Taponen** et al. - 166 - Finland).
- 8.4 Influence of vitrification of zygotes on the morphokinetic parameters of rabbit embryos: A time-lapse monitoring (TLM) study. (S. **Gizinski** et al. - 315 - Poland).

17:00-17:30

**Award for best scientific presentation / best poster
Closure of ESDAR**