

ESDAR Scientific Programme

14th ESDAR Annual Conference 17-18 September 2010, Eger

THURSDAY, 16th September

19:00-21:00 **Welcome Party**

FRIDAY, 17th SEPTEMBER

Plenary Session 1 Reproduction in Dairy Cattle

08:30-09:10 Factors Influencing Fertility in Cows
William Thatcher
University of Florida, Gainesville, USA

09:10-09:50 Late Embryonic Loss
Fernando Lopez Gatus
University of Lleida, Spain

09:50-10:10 Coffee Break and Industry Exhibition

Plenary Session 2 New Aspects of Stem Cell Research

10:10-10:50 Culture of Pluripotent Embryonic Germ Cells from Porcine Primordial
Germ Cells: Challenges and Perspectives
Stoyan G. Petkov,
University of Copenhagen, Denmark

10:50-11:30 Long Term Culture of Embryonic Stem Cells
Wilfried Kues
Institute of Farm Animal Genetics, Mariensee Germany

11:45-12:30 **Oral Communications 1-3**

Oral Communication 1

OC1.1 Expression of Toll-like Receptors (TLRs) in the Equine
Endometrium during the Estrous Cycle
MO Atli^{1,2}, E Kurar², SA Kayis², S Aslan³, A Semacan², S Celik⁴, A
Guzeloglu²
¹Dicle University, ²Selcuk University, ³Ankara University, ⁴AKU, Turkey

OC1.2 Effect of PGF2a Administration on Days 3, 3.5 and 4 of the Oestrous Cycle in Cattle on Corpus Luteum (CL) Bloodflow, Endometrial Density and Conceptus Elongation Following Multiple Embryo Transfer.
ME Beltman, N Forde, P Duffy, JF Roche, P Lonergan, MA Crowe
School of Agriculture, Food Science and Veterinary Medicine, UCD, Ireland

OC1.3 Oxytocin Produced Locally in Corpus Luteum may be Involved in Prostaglandin Secretion in the Feline Endometrium
MJ Siemieniuch¹, JJ Mlynarczuk¹, K Jankowska¹, K Okuda², DJ Skarzynski¹
¹*Institute of Animal Reproduction and Food Research of PAS, Olsztyn, Poland,* ²*School of Natural Science and Technology Okayama University, Japan*

Oral Communications 2

OC2.1 Investigations on Uterine Contractility in Dairy Cows after Stillbirth during Puerperium
ÁCs Bajcsy¹, K Szabó-Ari¹, J Tibold², I Mádl², R Kovács¹, O Szenci¹
¹*Szent István Univ., Fac. Vet. Sci., Üllő, Hungary;* ²*Agroprodukt Ltd., Pápa, Hungary*

OC2.2 Oestrous Behaviour and Luteinising Hormone Profiles of Intact Ewes Treated with Insulin or endotoxin.
C Fergani, AK Saifullizam, JE Routly, RF Smith, H Dobson
School of Veterinary Science, University of Liverpool, UK

OC2.3 Twisting of Mummified Remains around the Umbilical Cord as a Potential Risk of Delayed Twin Reduction in the Mare.
J Govaere¹, M Hoogewijs¹, C De Schauwer¹, K Smits¹, H Vandaele², G Van Loon¹, A de Kruijff¹
¹*Faculty of Veterinary Medicine, Ghent University,* ²*Keros n.v.*

Oral Communications 3

OC3.1 Mathematical Model of the Bovine Estrous Cycle
HMT Boer^{1,2}, C Stötzel³, S Röblitz³, P Deuflhard³, RF Veerkamp¹, H Woelders¹
¹*Animal Breeding and Genomics Centre, Wageningen UR Livestock Research, Wageningen, The Netherlands;* ²*Adaptation Physiology Group, Department of Animal Sciences, Wageningen University, Wageningen, The Netherlands;* ³*Zuse Institute Berlin, Department of Numerical Analysis and Modeling, Research Group Computational Drug Design, Berlin, Germany*

OC3.2 Use of Antimicrobial Peptides for Boar Sperm Preservation
M Schulze¹, C Junkes², S Speck³, K Ruediger¹, M Jung¹, P Mueller⁴, M
Dathe², K Mueller

¹*Institute for Reproduction of Farm Animals Schönnow e.V., D;* ²*Leibniz
Institute of Molecular Pharmacology, D;* ³*Leibniz Institute for Zoo and
Wildlife Research, D;* ⁴*Humboldt University Berlin, D*

OC3.3 Influence of Gold Nanoparticles on Vitality Parameters of Bovine
Spermatozoa

U Taylor¹, S Petersen², A Barchanski², A Mittag¹, S Barcikowski², D Rath¹
¹*Institute of Farm Animal Genetics (FLI), Mariensee, Germany* ²*Laser
Zentrum Hannover e.V., Germany*

12:30-14:00 Lunch Break (Meeting of Country Representatives)

14:00-15:30 **Poster Session I** (Posters 1- 100)

15:30 15:50 Coffee Break and Industry Exhibition

15:50-17:30 **Parallel Workshops 1-4**

**Workshop 1 The Premature Neonatal Foal: Advances in Diagnosis and
Critical Care**

Moderator: J. Ousey

W1.1 The Premature Neonatal Foal: Advances in Diagnosis and Critical
Care

J Ousey

Rossdale & Partners, Newmarket, Suffolk, UK

W1.2 Pre-term Delivery in the Mare – Diagnosis, Assessment and
Management

A McGladdery

Rosdales Equine Hospital, Newmarket, Suffolk, UK. CB8 9NN

W1.3 The Premature Foal

N Collins

*MVB MSc Cert EM (Int. Med.), Scone Equine Hospital, 106 Liverpool
Street, Scone, New South Wales 2337, Australia*

**Workshop 2 Reproductive Problems, Semen Quality and Handling in
Old and New World Camelids**

Moderator P. Nagy

W2.1 Reproductive Problems, Semen Quality and Handling in Old and
New World Camelids

P Nagy

E.I.C.M.P., Dubai, UAE - Budapest, Hungary

W2.2 Reproductive Disorders in Alpacas and Llamas at a Referral Center
A Tibary, JS Rodriguez, LK Pearson
College of Veterinary Medicine, Washington State University, USA

W2.3 Comparative Aspects of Semen Quality and Preservation in New
and Old World Camelids
KM Morton, JA Skidmore
Camel Reproduction Centre, Dubai, UAE

Workshop 3 Gamete Cryopreservation and Biosecurity

Moderator: J. Roca

W3.1 Gamete Cryopreservation: Is there a Bio-hazard Potential Risk?
J Roca
University of Murcia, Spain

W3.2 Regulation, Rules and Advises Concerning Biosecurity of Gamete
Cryopreservation in the European Union.
A Bolarín
Artificial Insemination Management Ibérica S.A., Spain.

W3.3 Practical Manipulation Procedures in Order to Guarantee the
Biosecurity of Cryopreserved Gametes
M Wallgren, H Rodriguez-Martinez, J Morrell
Division of Reproduction, SLU, Uppsala, Sweden

Workshop 4 Genomic Selection

Moderator: R.F. Verkamp

W4.1 Genomic Selection, a Revolution in Dairy Cattle Breeding?
RF Veerkamp
*Animal Breeding and Genomics Centre, Wageningen UR Livestock
Research, Wageningen, The Netherlands*

W4.2 Scientific Innovations that Bring About Genomic Selection
MPL Calus
*Animal Breeding and Genomics Centre, Wageningen UR Livestock
Research, Wageningen, The Netherlands*

W4.3 Genomic Selection: Changing AI Studs Today and in the Future
H te Plate, K Heikes
Cooperative Resources International, Shawano, Wisconsin, USA

17:40-18:30 ESDAR Annual Business Meeting

19:00-22.00 Social Programme (Get together Party, optional)

Saturday, 18th September

Plenary Session 3 Small Ruminant Reproduction

08:30-09:10

Nutrition and Reproduction in Sheep
Rex J. Scaramuzzi,
Royal Veterinary College, North Mymms, UK

09:10-09:50

Seasonality of Reproduction in Small Ruminants: Physiology, breed-related and genetic differences
Philippe Chemineau
INRA, Paris, France

09:50-10:10

Coffee Break and Industry Exhibition

10.10-10:55

Oral Communications 4-6

Oral Communications 4

OC4.1 Fertility After Osaterone Acetate Treatment in Breeding Dogs Suffering from Prostatic Diseases.

E Fontaine¹, F Mir¹, F Vannier¹, A Fontbonne¹
¹CERCA, Alfort Veterinary College, Paris, France

OC4.2 Influence of Extender on the Storage of Equine Semen at Different Temperatures

M Hoogewijs, S Piepers, J Govaere, C De Schauwer, K Smits, A de Kruif, A Van Soom
Faculty of Veterinary Medicine, Ghent University

OC4.3 Post-thaw Sperm Ca²⁺-ionophore A23187 Challenge Suggests Differences between Portions of the Boar Sperm-rich Fraction: Preliminary Results.

MS Hossain^{1,3}, AP Siqueira¹, A Johannisson³, M Wallgren^{1,2}, H Rodríguez-Martínez¹
¹Division of Reproduction, SLU, ²Quality Genetics, ³Dept of Anatomy, Physiology and Biochemistry, SLU, Sweden

Oral Communications 5

OC5.1 Systemic versus Local Utero-Ovarian Progesterone in Gilts (Sus scrofa)

RZ Athorn¹, P Stott¹, EG Bouwman², P Langendijk²
¹University of Adelaide, South Australia, ²South Australian R&D Institute

OC5.2 Influence of the Oestrous Cycle Stage on Post-Partum Endometrial Inflammation in the Cow
L Deguillaume¹, C. Pineau¹, H Choukroun¹, R Fournier², S Chastant-Maillard¹

¹*Alfort National Veterinary School, France;* ²*Intervet Schering-Plough, Beaucauzé, France*

OC5.3 Isolation and Culture of Equine Endometrial Epithelial and Stromal Cells: A new Scaffold for the Study of Endometrial Disorders?
T Theuß, D Böttcher, A Kappe, C Ellenberger, HA Schoon
Institute of Pathology, Faculty of Veterinary Medicine, Leipzig, Germany

Oral Communications 6

OC6.1 Evaluation of Nitric Oxide Concentration in Heifer Mastitis Before and After Calving

A Bastan¹, M Cengiz¹, T Sel¹, S Cengiz¹, M Akan¹, I Darbaz¹
¹*Veterinary Faculty, Ankara, Turkey*

OC6.2 Effects of Precalving Antibiotic Treatment on Mastitis and Individual Somatic Cell Count in Heifers

A Bastan¹, M Cengiz¹, S Cengiz¹, B Polat², A Colak², M Akan¹, I Darbaz¹, DB Acar³
¹*Veterinary Faculty, Ankara, Turkey;* ²*Veterinary Faculty, Erzurum, Turkey;* ³*Veterinary Faculty, Afyon Kocatepe, Turkey*

OC6.3 Hyperprolactinemia as a Cause of Ovulation Failure in Mares
A Zagrajczuk, A Okólski

Department of Animal Reproduction and Anatomy, Agricultural University in Krakow

10:55-12:30 **Poster Session II** (Posters 101-205)

12.30-14:00 Lunch Break

14:00-15:40 **Parallel Workshops 5-8**

Workshop 5 Focus on Parturition and the Neonatal Piglet

Moderator: O.A.T. Peltoniemi

W5.1 Focus on Parturition and the Neonatal Piglet

OAT Peltoniemi

Department of Production Animal Medicine, University of Helsinki, Finland

W5.2 Housing and Management of the Periparturient Sow: Effects on Sow Behaviour and Piglet Performance

A Valros

Department of Production Animal Medicine, University of Helsinki, Finland

W5.3 Alternatives for Surgical Castration without Anesthesia in Piglets

D Maes, A de Kruif, A Van Soom

Department of Reproduction, Obstetrics and Herd Health, Faculty of Veterinary Medicine, Ghent University

W5.4 Piglet Uniformity and Survival: Effects of Pre-ovulatory Sow Nutrition

JGM Wientjes, NM Soede, H van den Brand, B Kemp

Adaptation Physiology Group, Wageningen University, Wageningen, The Netherlands

Workshop 6 Practical Application of Doppler Ultrasonography in Equine and Bovine Reproduction

Moderator: H. Bollwein

W6.1 Practical Application of Doppler Ultrasonography in Equine and Bovine Reproduction

H Bollwein¹, H Sieme¹, A Miyamoto²

University of Veterinary Medicine, Hannover, Germany; University of Agriculture and Veterinary Medicine, Obihiro, Japan

W6.2 Evaluation of Ovarian Blood Flow by Colour Doppler Ultrasound: Practical Use for Reproductive Management in the Cow

A Miyamoto, M Matsui

Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan

W6.3 Variability of Testicular Blood Flow in the Stallion and its Relation to Sperm Quality and Fertility

H Sieme¹, H Bollwein²

¹Clinic for Horses, ²Clinic for Cattle, University of Veterinary Medicine, Hannover, Germany

Workshop 7 E-Learning in Veterinary Reproduction

Moderator: B.W: Christensen

W7.1 Audience Response Systems

BW Christensen

Iowa State University, USA

W7.2 Time Compressed Animated Delivery: A Multimedia Approach for Enhanced Learning Among University Students in Reproductive Science
AC Oki¹, MS Trevisan², PL Senger¹

¹*Current Conceptions, Inc., Pullman, WA, USA*

²*Learning and Performance Research Center, Washington State University, Pullman, WA, USA*

W7.3 E-Learning Strategy in Practice

R Sinka

Szent István University, Kosáry Domokos Library and Archives, Gödöllő, Hungary

Workshop 8 Gene Banking

Moderator: J. Ratky

W8.1 Germ Plasm Cryobanking in Poultry

E Blesbois,

INRA, UMR-PRC, France

W8.2 NIAS Gene Bank Project for Conservation and Management of Animal Genetic Resources in Japan

K Kikuchi¹, T Nagai², N Manabe³, M Minezawa¹

¹*National Institute of Agrobiological Sciences, Tsukuba, Japan.*

²*National Institute of Livestock and Grassland Science, Tsukuba, Japan.*

³*The University of Tokyo, Kasama, Japan*

W8.3 Gene banking in vivo versus in vitro

B Berger¹, I Egerszegi², F Fischerleitner¹, J Rátky²

¹*Institute of Organic Farming and Biodiversity of Farm Animal, A – 4601 Thalheim*

²*Research Institute for Animal Breeding and Nutrition, H- 2053 Herceghalom*

15:40-16:00 Coffee Break and Industry Exhibition

16:00-17:30 **Workshops 9-11**

Workshop 9 Poultry Reproduction

Moderator: M. Hess

W9.1 Poultry Reproduction

Messages of the Workshop: Poultry Reproduction

M Hess

Clinic for Avian, Reptile and Fish Medicine, University of Veterinary Medicine, Vienna, Austria

W9.2 Genetic Improvement of Reproduction in Meat Type Chickens
J McAdam
Aviagen Limited, Newbridge, Midlothian, EH28 8SZ, Scotland.

W9.3 Infectious Diseases Influencing Reproduction in Chickens
M Hess
*Clinic for Avian, Reptile and Fish Medicine, University of Veterinary
Medicine, Vienna, Austria*

Workshop 10 Ovulation Failure in the Mare
Moderator T. Katila

W10.1 Ovulation Failure in the Mare
T Katila (Finland)
*Department of Production Animal Medicine, Faculty of Veterinary
Medicine, University of Helsinki, Saarentaus, Finland*

W10.2 Haemorrhagic Anovulatory Follicles: Diagnosis and management
in equine practice
John Newcombe
Newcombe and East, West Midlands, UK

W10.3 Equine Anovulatory Haemorrhagic Follicles – Pathogenesis and
Possible Reasons
C Ellenberger¹, K Müller¹, H-A Schoon¹, S Wilsher², WR Allen²
*¹University of Leipzig, Faculty of Veterinary Medicine, Institute of
Pathology, Germany; ²University of Cambridge, The Paul Mellon
Laboratory of Equine Reproduction, Newmarket, U.K.*

Workshop 11 Nutritional Effects in Dairy Cow Reproduction
Moderator: Hedvig Fébel

W11.1 The Effects of Nutrition on Reproduction in Dairy Cows
JF Roche
Vet Sciences Centre, UCD, Belfield, Dublin, Ireland

W11.2 The Effect of Glucogenic and Lipogenic Diets on Reproduction of
Dairy Cows
ATM van Knegsel, B Kemp
*Adaptation Physiology Group, Wageningen University, Wageningen, The
Netherlands*

17:30-17:40 Closure Session

19:30-22:00 Gala Dinner

SUNDAY, 19th SEPTEMBER

Departure

Conference Secretariat

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