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 Gatius
*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 Kurar 2, SA Kayis 2, S Aslan 3, A Semacan 2, S Celik 4, A Guzeloglu 2

1*Dicle University, 2Selcuk University, 3Ankara University, 4AKU, Turkey*
OC1.2 Effect of PGF2α 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 Jankowska³, K Okuda³, DJ Skarzynski¹
¹Institute of Animal Reproduction and Food Research of PAS, Olsztyn, Poland, ²School 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

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 Kruijf¹
¹Faculty of Veterinary Medicine, Ghent University, ²Keros n.v.

Oral Communications 3

OC3.1 Mathematical Model of the Bovine Estrous Cycle. HMT Boer¹,², C Stötzel³, S Röblitz³, P Deuflhard³, RF Veerkamp¹, H Woelders¹
¹Animal Breeding and Genomics Centre, Wageningen UR Livestock Research, Wageningen, The Netherlands; ²Adaptation Physiology Group, Department of Animal Sciences, Wageningen University, Wageningen, The Netherlands; ³Zuse 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 Junkes⁴, S Speck³, K Ruediger¹, M Jung¹, P Mueller⁴, M Dathe², K Mueller
¹Institute for Reproduction of Farm Animals Schönow e.V., D; ²Leibniz Institute of Molecular Pharmacology, D; ³Leibniz Institute for Zoo and Wildlife Research, D; ⁴Humboldt 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
¹Institute of Farm Animal Genetics (FLI), Mariensee, Germany; ²Laser 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
Rossdales 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 Bolarin
*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 Mimms, 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 Kruijf, 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 Hossain¹,³, AP Siqueira¹, A Johannisson³, M Wallgren¹,², 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
²University 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
¹Alfort National Veterinary School, France; ²Intervet Schering-Plough, Beaucouzé, 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
¹Veterinary 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
²Veterinary Faculty, Ankara, Turkey; ³Veterinary Faculty, Erzurum, Turkey; ³Veterinary 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 Peripartu-rient 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 Kruijff, 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 Sieme³, 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
¹Current Conceptions, Inc., Pullman, WA, USA
²Learning 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
¹National Institute of Agrobiological Sciences, Tsukuba, Japan.
²National Institute of Livestock and Grassland Science, Tsukuba, Japan.
³The University of Tokyo, Kasama, Japan

**W8.3** Gene banking in vivo versus in vitro
B Berger¹, I Egerszegi², F Fischerleitner¹, J Rátky²
¹Institute of Organic Farming and Biodiversity of Farm Animal, A – 4601 Thalheim
²Research 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

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Conference Secretariat

ALTAGRA Business Services and Travel Agency Ltd.
Hungary - 2100 GÖDÖLLŐ, Isaszegi út, P.O. Box 417.
Tel: (36)-28-432-985
Fax: (36)-28-419-647
e-mail: office@altagra.hu
homepage: www.altagra.hu

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