



October 8-10, 2012- Wageningen, The Netherlands

Monday, October 8, 2012

7:30 am- 8:30 am **Registration**

8:30 am- 12:15 pm **Session Topic: Dairy cow/goat/sheep genomics and milk composition**

Serial translocation via circular intermediates underlies color-sidedness in cattle

Michel Georges (keynote), University of Liège, Belgium

Genetic and isoform variability in relation to milk coagulation properties

Hanne Bak Jensen, Dept. of Food Science, Science and Technology, Aarhus University, Denmark

Genomic regions associated with both summer and winter bovine milk fatty acids

Aniek Bouwman, Wageningen University, The Netherlands (Student Travel Award Recipient)

Genetic relation between composition of bovine milk fat in winter and summer

Sandrine Duchemin, Wageningen University, The Netherlands

Genetic parameters for fatty acids in Danish Holstein cattle based on SNP markers using a Bayesian approach

Kristian Krag, Department of Molecular Biology and Genetics, Aarhus University, Denmark

DNA methylation and ncRNA transcription at a CSN1S1 regulatory region in the bovine mammary gland

Eve Devinoy, INRA, France

12:15 pm-1:15 pm **Lunch**

1:30 pm - 5:30 pm **Session Topic: Milk composition and human health**

The co-evolution of lactase persistence and dairying

Mark Thomas (keynote), University College London, UK

Milk miRNA information and lactation

Christophe Lefèvre, Deakin University, Australia

Opportunities for improving vitamin B12 content in bovine milk

Marleen Visker, Animal Breeding and Genomics Centre, Wageningen University, The Netherlands

Protection from childhood asthma and allergies by consumption of unprocessed cow's milk

Ericka von Mutius (keynote), Dr. Von Hauner Children's Hospital of the University of Munich, Germany

Growing a mammary gland: it's all about hormones

Anke Schennink, Department of Animal Science, University of California Davis, USA

Maternal obesity in the agouti viable yellow (Avy) mouse produces defective secretory activation that is associated with mammary inflammation and activation of adrenocorticosteroid-dependent gene expression.

Darryl Hadsell, Children's Nutrition Research Center, Baylor College of Medicine, USA

5:30 pm- 7:30

Poster Reception

Tuesday, October 9, 2012

8:30 am- 12:15 pm

Session Topic: Host-microbe interactions in the gastrointestinal tract

Post-genomic deciphering of host-microbe communication in the human intestine

Michiel Kleerebezem (keynote), NIZO food research & Wageningen University, Netherlands

Session Topic: Nutrigenomics: genomics in nutrition research

Nutrigenomics: The smart combination of genomics and molecular nutrition research to study metabolic health

Michael Müller (keynote), Wageningen University, Netherlands

Session Topic: Dairy cow/goat/sheep genomics and milk composition

Understanding the regulation of milk lipid synthesis and secretion

Jim McManaman (keynote), University of Colorado School of Medicine, USA

The extracellular matrix modulates asynchronous concurrent lactation in tammar wallaby (*Macropus eugenii*)

Stephen Wanyonyi, Deakin University, Australia (Student Travel Award Recipient)

Identification and functional characterization of a novel monotreme-specific antibacterial protein expressed during lactation

Swathi Bisana, Deakin University, Australia (Student Travel Award Recipient)

12:15 pm-1:15 pm

Lunch

1:30 pm- 5:30 pm

Session Topic: Dairy cow/goat/sheep genomics and milk composition (continuation of morning session)

Identification and quantification of milk synthesis and secretion related proteins in bovine milk using a proteomics approach

Jing Lu, Wageningen University, The Netherlands

Transcriptional modulation by abundant milk protein genes in the bovine mammary gland

Kristen Beck, University of California, Davis, USA (Student Travel Award Recipient)

Milk metabolite composition and its relation to nutritional and technological quality – A NMR metabolomic approach

Ulrik Sundekilde, Aarhus University, Denmark (Student Travel Award Recipient)

Session Topic: The rumen: a feed-deconstructing reactor fueling milk production and superintending its composition

Diego Morgavi (keynote), INRA, France

Session Topic: The Future Opportunities for Global Research Initiatives in Milk

Bruce German (keynote), University of California, Davis, USA

6:30 pm Busses to conference dinner at Castle Doorwerth (Sponsored by FrieslandCampina, STW, and CRV)

Wednesday, October 10, 2012

8:30 am- 12:15 pm

Session Topic: Human milk

Increasing our understanding on the role of Human milk on child development

Hans van Goudoever(keynote), VU University Medical Center, Amsterdam, Netherlands

RNA sequencing of the human milk fat globule transcriptome at three stages of lactation

Danielle Lemay, Genome Center, University of California Davis, USA

Digestomics of human milk proteins in term and premature infants: towards improved infant feeding

David Dallas, University of California, Davis, USA

Prediction of phenotypic milk parameters using FT-IR spectroscopy, variable selection and PLS regression – the overfitting issue

Carl Emil Eskildsen, Department of Food Science, University of Copenhagen, Denmark

Session Topic: Updates- milk genomics research

Overview and results of PhenoFinlait, a large scale project for milk fat and protein composition analysis

Didier Boichard, INRA, France

The Swedish-Danish Milk Genomics Initiative: Variation in milk phenotypes, effect on milk properties and underlying genetic influence in three Scandinavian breeds

Lotte Bach Larsen, Department of Food Science, Aarhus University, Denmark

12:15 pm- 1:15 pm

Lunch

12:15 pm

Poster Removal

1:30 pm

Adjourn