

Tuesday September 26, 2017

Overview

- 8:00 am **Registration**
- 9:00 am **Welcome**
- 9:15 am **The Collaborative Effect of Scientific Meetings: A Study of the International Milk Genomics Consortium**
Danielle Lemay, Western Human Nutrition Research Center, USDA, Davis, CA, USA
- 9:35 am **A Brief History of the IMGCC**
Gerrit Jan Hiddink, Emeritus Professor, Wageningen University, The Netherlands

Milk Genetics and Genomics

- 9:50 am **Invited Speaker: Opportunities to Genetically Improve the Nutritional Value of Milk**
Filippo Miglior, Research and Strategic Development, Canadian Dairy Network, Canada
- 10:30 am **Coffee Break**
- 11:00 am **Annotating the Lactation Genome**
Monique Rijnkels, Texas A&M University, USA
- 11:25 am **Genetic Parameter Estimation for Bovine Milk Oligosaccharides in Danish Dairy Breeds**
Nina Aagaard Poulsen, Aarhus University, Denmark
- 11:50 am **Dairy Goats: Gene Discovery and Herd Development in the Time of Genome Sequencing**
Klaus Lehnert, University of Auckland, New Zealand
- 12:15 pm **Lunch**
- 1:30 pm **Invited Speaker: Milk Odd- And Branched-Chain Fatty Acids - An Overview of Current Research**
Rachel Gervais, Université Laval, Québec, Canada
- 2:10 pm **In-Silico Genome-Wide Association Mapping of Loci Associated with Milk Triglyceride, Protein, and Lactose in The Mouse Diversity Panel**
Darryl Hadsell, Baylor College of Medicine, Houston, Texas, USA
- 2:35 pm **Characterization and Valorization of the Genetic Pool of the Canadienne Breed**
Alexandra Carrier, Université Laval, Québec, Canada
- 3:00 pm **Coffee Break**
- 3:30 pm **Student Travel Award Recipient: Next-Generation Sequencing of Bovine Milk-Derived Exosomal MicroRNA to Determine Transcriptome Expression for Efficient Recovery from Mastitis Infection**
Andrea Zukowski, University of Ottawa, Ontario, Canada
- 3:45 pm **The Human Milk Metabolome - Effect of Gestational and Lactational Age**
Ulrik Kræmer Sundekilde, Aarhus University, Denmark
- 4:20 pm **Quantitative Variation in The Proteome of Individual Healthy Cows**
Kasper Hettinga, Wageningen University, The Netherlands
- 4:45 pm **Student Travel Award Recipient: Alternative splicing, a fortuitous or genetically programmed event to expand molecular diversity of milk proteins: Camel CSN1S2, a relevant model to try to provide some response elements**
Ryskaliyeva Alma, INRA, UMR GABI, AgroParisTech, Université Paris-Saclay, France

Evening Sessions

- 5:30-6:30 pm **Joint Scientific Advisory Council/Steering Committee Meeting (Closed Session)**
- 6:00-8:00 pm **Poster Reception**

Wednesday September 27, 2017

Health Impact of the Gut Microbiota

- 9:00 am **Keynote Speaker: Impact of Dairy Products on the Gut Microbiota of Animal Models of Cardio-Metabolic Diseases**
André Marette, INAF, Université Laval, Québec, Canada
- 9:40 am **Bifidobacterial Dominance Correlates with Reduced Infant Gut Antibiotic Resistance**
Diana H. Taft, University of California, Davis, USA
- 10:05 am **Coffee Break**
- 10:35 am **Rescuing The Infant Gut Microbiome Over the First Year of Life in Breastfed Infants with Bifidobacterium Longum Subsp. Infantis EVC001**
Steve Frese, Evolve Biosystems, Inc., Davis, CA, USA
- 11:00 am **Milk Secretory Immunoglobulin A Protects Lactobacillus Reuteri from Digestion and Aids in Colonization in Vitro**
Vanessa Dunne-Castagna, University of California, Davis, USA

Milk and Dairy Products Impact on Health - Protein-Peptides, Oligosaccharides

- 11:25 am **Milk Protein Digestion in Premature Infants and Bioactive Peptide Discovery**
David Dallas, Oregon State University, USA
- 11:50 am **Milk Bioactive Peptide Database: A Comprehensive Milk Bioactive Peptide Database and Novel Visualization**
Søren D. Nielsen, Aarhus University, Denmark
- 12:15 pm **Lunch**
- 1:30 pm **Osteopontin and Its Relation to Transcription of the Major Milk Proteins**
Vivi R. Gregersen, Aarhus University, Denmark
- 1:55 pm **Analysis of Milk Phosphor-Peptides in a Processed Whey Stream**
Peter Williamson, University of Sydney, Australia
- 2:20 pm **Raw Cow's Milk Prevents the Development of Airway Inflammation in a Murine House Dust Mite-Induced Asthma Model**
Betty van Esch, Utrecht University, The Netherlands
- 2:55 pm **Student Travel Award Recipient: Comparative Analysis of Bioactive Oligosaccharide Production in Dairy Cows Using Novel Analytical Techniques**
Randall Robinson, University of California, Davis, USA
- 3:10 pm **Coffee Break**

Milk and Dairy Products Impact on Health - Lipids

- 3:40 pm **Keynote Speaker: How Has Saturated Fat Become So Controversial?**
Benoit Lamarche, Université Laval, Québec, Canada
- 4:20 pm **Differential Impact of Cheese Matrix on Postprandial Lipid Response: A Randomized, Crossover, Controlled Trial**
Jean-Philippe Drouin-Chartier, Université Laval, Québec, Canada
- 4:35 pm **Student Travel Award Recipient: Identification of Parameters Involved in Disintegration of Commercial Cheese Matrix and Lipid Digestion by Using an In Vitro Static Digestion Model**
Léa Guinot, Université Laval, Québec, Canada
- 4:50 pm **Milk Fat Globule: New Insights into an Unappreciated Complex Lipid System**
Bruce German, University of California, Davis, USA

Evening Event

- 6:30-11 pm **Group Dinner**

Thursday September 28, 2017

Human Milk

- 9:00 am **Human Milk for Populations at Risk**
Deborah O'Connor, University of Toronto, Canada
- 9:40 am **A Role for Human Milk Bioactivity in Improved Health Outcomes for Premature and Low Birth Weight Babies: Lessons from the Evolution of Lactation**
Kevin Nicholas, Monash University, Victoria, Australia
- 10:05 am **Maternal Programming of Lung Development During Lactation in the Marsupial Neonate**
Christophe Lefevre, Walter and Eliza Hall Medical Research Institute, Melbourne, Australia
- 10:30 am **Coffee Break**
- 10:45 am **Lactational Concentration Changes of Individual Human Milk Oligosaccharides in Breast Milk from Chinese and Malaysian Women**
Paul McJarrow, Fonterra Research and Development Centre, Palmerston North, New Zealand
- 11:10 am **Beyond the Bench: The Future of Human Milk Stem Cells for Preterm Infants**
Carrie-Ellen Briere, University of Massachusetts Amherst, USA
- 11:35 am **Student Travel Award Recipient: Milk as a Protein-Protease Delivery System: Collaborative Approaches Inspire Inquiry into the Dynamics and Complexities of Human Milk**
Junai Gan, University of California, Davis, USA
- 11:50 pm **CLOSING REMARKS**
- 12:00 pm **LUNCH**