Tuesday September 26, 2017

### Overview

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Registration</td>
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<tr>
<td>9:00 am</td>
<td>Welcome</td>
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| 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 IMGC  
Gerrit Jan Hiddink, Emeritus Professor, Wageningen University, The Netherlands |

### Milk Genetics and Genomics

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| 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 Hadseell, 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

<table>
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<tr>
<th>Time</th>
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<tr>
<td>5:30-6:30 pm</td>
<td>Joint Scientific Advisory Council/Steering Committee Meeting (Closed Session)</td>
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<tr>
<td>6:00-8:00 pm</td>
<td>Poster Reception</td>
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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**
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<tr>
<td>9:00 am</td>
<td><strong>Human Milk for Populations at Risk</strong>&lt;br&gt;Deborah O'Connor, University of Toronto, Canada</td>
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<td>9:40 am</td>
<td><strong>A Role for Human Milk Bioactivity in Improved Health Outcomes for Premature and Low Birth Weight Babies: Lessons from the Evolution of Lactation</strong>&lt;br&gt;Kevin Nicholas, Monash University, Victoria, Australia</td>
</tr>
<tr>
<td>10:05 am</td>
<td><strong>Maternal Programming of Lung Development During Lactation in the Marsupial Neonate</strong>&lt;br&gt;Christophe Lefevre, Walter and Eliza Hall Medical Research Institute, Melbourne, Australia</td>
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<tr>
<td>10:30 am</td>
<td><strong>Coffee Break</strong></td>
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<td>10:45 am</td>
<td><strong>Lactational Concentration Changes of Individual Human Milk Oligosaccharides in Breast Milk from Chinese and Malaysian Women</strong>&lt;br&gt;Paul McJarrow, Fonterra Research and Development Centre, Palmerston North, New Zealand</td>
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<td>11:10 am</td>
<td><strong>Beyond the Bench: The Future of Human Milk Stem Cells for Preterm Infants</strong>&lt;br&gt;Carrie-Ellen Briere, University of Massachusetts Amherst, USA</td>
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<td>11:35 am</td>
<td><strong>Student Travel Award Recipient: Milk as a Protein-Protease Delivery System: Collaborative Approaches Inspire Inquiry into the Dynamics and Complexities of Human Milk</strong>&lt;br&gt;Junai Gan, University of California, Davis, USA</td>
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<tr>
<td>11:50 pm</td>
<td><strong>CLOSING REMARKS</strong></td>
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<tr>
<td>12:00 pm</td>
<td><strong>LUNCH</strong></td>
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