



## Program Schedule

### Monday - October 26, 2015

- 9:00 am**      **Welcome:** *Peter Williamson, Faculty of Veterinary Science, University of Sydney, Australia*
- 9:15 am**      **Opening: Milk Genomics: How Lactation Can Teach Us about Lifelong Health**  
*Bruce German, Foods for Health Institute, University of California, Davis, USA*
- 9:45 am**      **Emerging Hot Topics in Milk Science**  
*Danielle Lemay, University of California Davis Genome Center, Davis, USA*
- 10:30 am**      **Break**
- 11:00 am**      **Cow Milk-Derived Extracellular Vesicles Possess Immunoregulatory - and Anti-Inflammatory Activities and Oral Administration Ameliorates Experimental Arthritis**  
*Fons van de Loo, Experimental Rheumatology, Radboud University Medical Center, Nijmegen, The Netherlands*
- 11:40 am**      **Supplementation with *Bifidobacterium Infantis* in Combination with Bioactive Milk Components to Alter Microbial Composition in Children with Autism**  
*Megan Sanctuary, Department of Nutrition, University of California, Davis, USA*  
**Student Travel Award Recipient**
- 12:00 pm**      **Metabolic Programming in Utero - How a Mother's Diet Shapes Her Child's Future**  
*Jennie Brand-Miller, School of Molecular Biosciences and Boden Institute of Obesity, Nutrition and Exercise, University of Sydney, Australia*
- 12:40 pm**      **Lunch**
- 2:00 pm**      **Sensor Derived Health Phenotypes for Improved Dairy Cattle Management and Genetic Selection**  
*Cameron Clark, Dairy Science Group, The University of Sydney, Camden, Australia*
- 2:40 pm**      **Harnessing the Benefit of Functional Genomics Information When Combining Two Unrelated Populations for Genomic Selection**  
*Antonio Reverter, CSIRO Agriculture Flagship, Queensland Bioscience Precinct, St. Lucia, Australia*
- 3:20 pm**      **Collection of Data for the Genetic Improvement of Health Traits in Australian Dairy Cattle**  
*Mary Abdelsayed, Faculty of Veterinary Science, The University of Sydney, Camden, Australia*  
**Student Travel Award Recipient**
- 3:40 pm**      **Break**

- 4:00 pm**      **Human Breast Milk miRNA, Maternal Probiotic Supplementation and Atopic Dermatitis in Offspring**  
*Melanie Rae Simpson, Department of Public Health and General Practice, Norwegian University of Science and Technology (NTNU), Trondheim, Norway*  
**Student Travel Award Recipient**
- 4:20 pm**      **Freed Milk Glycan Monomers Create a Niche for Gut Pathogens in Vivo**  
*Steven Frese, Department of Food Science and Technology, University of California, Davis, USA*
- 5:15 pm – 6:15 pm** **Joint Scientific Advisory Council/Steering Committee Meeting (closed session)**
- 6:00 pm – 8:00 pm** **Poster Reception**
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**Tuesday - October 27, 2015**

- 8:30 am**      **Novel Genetic Makers Affect Rennet-Induced Milk Coagulation**  
*Vivi Gregersen, Department of Molecular Biology and Genetics, Aarhus University, Tjele, Denmark*
- 9:10 am**      **Not Sex but Birth Weight of the Calf Affects Its Mother's Milk Production**  
*Yu Wang, Animal Breeding and Genomics Centre, Wageningen University, The Netherlands*
- 9:50 am**      **An Evaluation of Extended Lactation in the Australian Dairy Industry**  
*Peter Thomson, Faculty of Veterinary Science, The University of Sydney, Camden, Australia*
- 10:30 am**      **Break**
- 10:50 am**      **Characterization of Regulatory Elements Associated With Mammary Gland Function in Mouse and Cow**  
*Monique Rijnkels, College of Veterinary Medicine and Biomedical Sciences, Texas A&M University, USA*
- 11:30 am**      **Maternal Mechanisms of Energy Mobilisation during Lactation in Mouse Models**  
*Peter Williamson, Faculty of Veterinary Science, The University of Sydney, Australia*
- 12:10 pm**      **A Role for Sim2s in Elongation Regulation of Milk Protein Gene Transcription in the Mammary Gland**  
*Jessica Elswood, College of Veterinary Medicine and Biomedical Sciences, Texas A&M University, USA*  
**Student Travel Award Recipient**



- 12:30 pm**      **Lunch**
- 2:00 pm**      **Peptidomics of Human and Bovine Milk Revealing Novel Antimicrobial Peptides**  
*David Dallas, Department of Food Science and Technology, University of California, Davis USA*
- 2:40 pm**      **Survival of New Probiotic Strains with Anti-Inflammatory & Anti-Obesity Effects Used in Non-Fat Yogurt and Low-Fat Cheddar Cheese Making**  
*Véronique Demers-Mathieu, Dairy Science and Technology (STELA), Institute of Nutrition and Functional Foods (INAF), Department of Food Sciences and Nutrition, Laval University, Quebec City, Canada*  
**Student Travel Award Recipient**
- 3:00 pm**      **Molecular Determinants of Milk Lactoferrin as A Bioactive Compound in Early Neurodevelopment and Cognition**  
*Bing Wang, School of Medicine, Xiamen University, China, and School of Animal and Veterinary Sciences, Charles Sturt University, Sydney, Australia*
- 3:40 pm**      **Break**
- 4:00 pm**      **Packaging of Endogenous and Exogenous Milk miRNAs in the Mammary Gland: New Opportunities for Milk as a Therapeutic**  
*Meagan Gillespie, CSIRO, Australian Animal Health Laboratory, Geelong, Victoria, Australia*
- 4:40 pm**      **Comparative Analysis of Milk miRNA**  
*Christophe Lefevre, The Walter and Eliza Hall Institute of Medical Research, and Melbourne University, Australia*
- 7:00 pm**      **Group Dinner: Sydney Harbor Dinner Cruise**
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### Wednesday – October 28, 2015

- 9:00 am**      **Effects of Maternal Periconception Overnutrition on the Adipose Tissue Epigenome of Offspring**  
*Ross Tellam, CSIRO Agriculture, Brisbane, Australia*
- 9:40 am**      **The Nature of Nutrition: An Integrative Framework from Animal Adaptation to Human Obesity**  
*Stephen J. Simpson, Charles Perkins Centre, The University of Sydney, Australia*
- 10:20 am**      **Modulation and Programming of Immunity and Intestinal Microbiota through Early Life Supplementation with Human Milk Oligosaccharides in an Autoimmune Mice Model**  
*Belinda van't Land/Dr. Bernd Stahl, Nutricia Research, Utrecht, The Netherlands*

## 12<sup>th</sup> International Symposium on Milk Genomics & Human Health

October 26-28, 2015

Amora Hotel Jamison, Sydney, Australia

*Translation of Omics into Production and Health*



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| <b>11:00 am</b> | <b>Break</b>  |
| <b>11:20 am</b> | <b>Homeostasis and the Composition of Mammalian Milk</b><br><i>David Raubenheimer, Charles Perkins Centre, The University of Sydney, Australia</i>  |
| <b>12:00 pm</b> | <b>Human Complex Milk Lipids: Concentrations, Benefits and Implications for Human Infant Formula</b><br><i>Alastair MacGibbon, Fonterra Co-operative Group, Palmerston North, New Zealand</i>   |
| <b>12:40 pm</b> | <b>Metabolomic and Proteomic Insights into Milk Biochemistry: Genetic, Seasonal and Feed Induced Changes in Milk</b><br><i>Simone Rochfort, AgriBio, Centre for AgriBioscience, Biosciences Research, DEDJTR, and School of Applied Systems Biology, La Trobe University, Bundoora, Australia</i> |
| <b>1:20 pm</b>  | <b>Closing Remarks</b>  |
| <b>1:30 pm</b>  | <b>Lunch</b>  |
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