
Program Schedule

Monday October 6, 2014

Noon - 1:00 pm Lunch

- 1:00 pm** **Welcome:** *T.B.D.*
Opening: *Bruce German, Professor, UC Davis, California, USA*

Milk Genomics – Where It All Starts...

- 1:25 pm** **Genomics and Ruminomics**
John Wallace, Professor, Rowett Institute of Nutrition and Health, University of Aberdeen, Scotland
- 2:00 pm** **Bovine Genomic Selection Today - Possibilities to Improve Novel Milk Traits through Genomic Selection**
Hans Stålhammar, Chief Geneticist, VikingGenetics, Sweden
- 2:35 pm** **Epitope Mapping of α S1-Casein by Microarray Immunoassay Reveals Differences in Ige Binding within Dairy Breeds and Between Water Buffaloes, Sheep, Goats**
Maria Lisson, Department of Animal Breeding and Genetics, Justus-Liebig University, Gießen, Germany
Student Travel Award Recipient
- 2:50 pm** **Break**
- 3:20 pm** **Genetic Analysis of Micro- and Macro-elements in Danish Holstein and Danish Jersey Milk**
A.J. Buitenhuis, Associate Professor, Department of Molecular Biology and Genetics - Center for Quantitative Genetics and Genomics, Aarhus University, Denmark
- 3:40 pm** **Quantification of Individual Milk Fatty Acids by Infrared Spectroscopy and Chemometrics: In the Cage of Covariance with Total Fat Content**
Carl Emil Aae Eskildsen, Department of Food Science, University of Copenhagen, Denmark
- 3:55 pm** **Protein Quality in a Sustainable Context**
Toon van Hooijdonk, Professor, Agrotechnology & Food Sciences, Wageningen University, The Netherlands
- 4:30 pm** **Discussion**
- 5:00 pm - 7 pm** **Poster Reception**

Tuesday October 7, 2014

Lactation Biology

- 9:00 am **Good Morning & Practical info**
- 9:05 am **In-Silico Genomic Approaches to Understanding Lactation, Mammary Development, and Breast Cancer**
Darryl L. Hadsell Associate Professor, Department of Pediatrics, USDA/ARS Children's Nutrition Research Center, Baylor College of Medicine, USA
- 9:25 am **Comparative Genomics of Monotremes, Marsupials, and Pinnipeds: Models to Examine the Function of Milk Proteins**
Julie Sharp, Research Fellow, Centre for Biotechnology and Interdisciplinary Sciences, Deakin University, Australia
- 9:45 am **The Relationship Between Milk Proteins and Extracellular Matrix in Regulating Murine Mammary Gland Involution**
Sugeetha Ramakrishnan, School of Medicine, Deakin University, Victoria, Australia
Student Travel Award Recipient
- 10:00 am **Effect of A 48h Food Deprivation on the Lactating Goat Mammary MiRNome Obtained by Deep Sequencing**
Lenha Mobuchon, INRA, France
Student Travel Award Recipient
- 10:15 am **Break**

Milk and the Neonate

- 10:45 am **Animal Models for Pre and Early Infant Nutrition**
Per Sangild, Professor, Department of Nutrition, Exercise and Sports, University of Copenhagen, Denmark
- 11:25 am **TGF- β 2 Protects Intestinal Epithelial Cells by Regulation of Proteins Associated with Stress and Endotoxin Responses**
Duc Ninh Nguyen, Department of Food Science, University of Copenhagen, Denmark
Student Travel Award Recipient
- 11:40 am **Human Milk: Mother Nature's Prototypical Probiotic Food?**
Michelle McGuire, Associate Professor, School of Biological Sciences, Washington State University, USA
- 12:05 pm **Lunch**
- 12:55 pm **Conference photo**
- 1:10 pm **NMR Metabolomics of Term and Preterm Milk during the First Month of Lactation**
Ann Spevacek, Postdoctoral Researcher, UC Davis, USA



*It will take you on a journey through the stages of mammalian life –
from the umbilical cord to the clinical cohort*

- 1:30 pm** **Comparative Proteomics of Human And Macaque Milks: Humans Get a Helping Hand During Post-Natal Development**
Kristen Beck, Genome Center, University of California Davis, USA
Student Travel Award Recipient

Technological Aspects of Milk

- 1:45 pm** **Milk Genomics from a Technological Perspective**
Lotte Bach Larsen, Professor, Department of Food Science, Aarhus University, Denmark
- 2:15 pm** **Strategies to Improve Milk Coagulation**
Nina Poulsen, Department of Food Science, Aarhus University, Denmark
- 2:35 pm** **Break**
- 3:05 pm** **Milk Phospholipids as Emulsifiers in Infant Formula**
Lars Hellgren, Associate Professor, Department of Systems Biology, Technical University of Denmark, Denmark
- 3:25 pm** **Lipid and Protein Release During In Vitro Digestion of Different Cheese Types**
Sylvie Turgeon, Professor and Acting director, Institute of Nutrition and Functional Foods, Laval University, Canada
- 3:55 pm** **Discussion**
- 4:30 pm** **Practical info**
- 7:00 pm** **Group Dinner: Varna Palæet (Busses to pick up at hotels at 6:30 pm)**

Wednesday October 8, 2014

Obesity and the Metabolic Syndrome

- 9:00 am** **Good Morning & Practical info**
- 9:05 am** **Dairy and Weight Management: A Review of the Evidence**
Arne Astrup, Professor, Department of Nutrition, Exercise and Sports, University of Copenhagen, Denmark
- 9:45 am** **Effect of Milk Protein And Butter with Different Fat Composition on the Observed Metabolites in Human Urine and Blood – Assessed by an Untargeted Metabolomics Approach**
Bashar Amer, PhD student, Department of Food Science, Aarhus University, Denmark
- 10:00 am** **Milk Protein Fractions and Body Weight Regulation – Mechanistic Studies Using Metabolomics in a Mouse Model**
Morten Rahr Clausen, Assistant Professor Department of Food Science, Aarhus University, Denmark
- 10:20 am** **Break**



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Biological Effects of Milk Constituents

- 10:50 am** **Biological Effects of Milk Peptides/Proteins – State of the Art**
Bo Lönnerdal, Professor, University of California Davis, USA
- 11:20 am** **Osteopontin**
Esben Skipper Sørensen, Associate Professor, Department of Molecular Biology and Genetics - Molecular Nutrition, Aarhus University, Denmark
- 11:50 am** **Consumption of Fucosyllactose by Infant Borne Bifidobacteria**
Mina Popovic, Department of Life Science, University of Modena and Reggio Emilia, Modena, Italy
Student Travel Award Recipient
- 12:05 pm** **Lunch**
- 1:05 pm** **Role of Protease Inhibitors in Breast Milk in Protection Against Allergy**
Kasper Hettinga, Assistant Professor, Food Quality and Design, WU Agrotechnology & Food Sciences, Wageningen UR, The Netherlands
- 1:25 pm** **Biotransfer of Milk Mirnas to the Baby: A New Functional Component of Milk?**
Meagan Gillespie, Post-doctoral fellow, Commonwealth Scientific and Industrial Research Organisation, Australian Animal Health Laboratory, Australia
- 1:45 pm** **Early Supplementation of Phospholipids and Gangliosides Affect Brain and Cognitive Development in Neonatal Piglets**
Emily C. Radlowski, Department of Animal Sciences, Division of Nutritional Sciences, University of Illinois at Urbana-Champaign, USA
- 2:15 pm** **Discussion**
- 2:45 pm** **Break**
- 3:15 pm** **“New Technology” – To Be Announced**
- 3:45 pm** **Presentation of Award for 2013 IMGCC Symposium MVP (Most Valuable Presentation)**
- 4:10 pm** **Emerging Hot Topics in Milk Science: A Behind-The-Scenes Tour of “SPLASH! milk science update”**
Danielle G. Lemay, Research Professor, UC Davis Genome Center, UC Davis, USA
- 4:30 pm** **Closing Remarks**