"Human Milk: Composition, Clinical Benefits and Future Opportunities"

Chairs: Prof. Sharon DONOVAN | Prof. Bruce GERMAN | Prof. Bo LONNERDAL | Prof. Alan LUCAS

Monday, October 30, 2017

09:00 – 09:15 Opening
Natalia Wagemans

**Session I** State of Breast Feeding in the World
Chair: Alan Lucas

09:15 – 10:15 Historical Perspective
Ruth Lawrence

10:15 – 11:00 Coffee Break & Group Picture

11:00 – 12:00 Biological Perspective
Alan Lucas

12:00 – 13:00 Physiologic Basis/Mechanics of Breastfeeding
Michael Woolridge

13:00 – 14:00 Lunch

14:00 – 15:00 Role of Health Care Providers in Breastfeeding
Joan Meek / José Saavedra

**Session II** Human Milk Composition and Physiological Benefits
Chair: Bo Lonnerdal

15:00 – 16:00 Physiological Effects of Feeding Infants and Young Children a Formula Supplemented with Milk Fat Globule Membranes
Olle Hernell

16:00 – 16:30 Coffee Break

16:30 – 17:30 Human Milk Oligosaccharides: Factors Affecting their Composition and their Physiological Significance
Norbert Sprenger
Tuesday, October 31, 2017

Session II  Human Milk Composition and Physiological Benefits  Chair: Bo Lonnerdal
(continued)

08:30 – 09:00  Fatty Acids and Fat-Soluble Vitamins in Breast Milk: Factors Affecting their Concentrations and their Physiological Significance  Ardythe Morrow

09:00 – 09:30  Water-Soluble Vitamins in Breast Milk: Factors Affecting their Concentrations and their Physiological Significance  Lindsay Allen

09:30 – 10:00  Q&A on Vitamins in Breast Milk

10:00 – 10:30  Coffee Break

10:30 – 11:30  Human Milk MicroRNAs/Exosomes: Composition and Biological Effects  Bo Lonnerdal

11:30 – 12:30  Proteins in Human Milk: Composition and Biological Effects  Sharon Donovan

12:30 – 13:30  Lunch

Session III  Clinical Aspects of Human Milk on Infant Health Outcomes  Chair: Sharon Donovan

13:30 – 14:30  Early Life Nutrition and Growth Trajectories and Metabolic Outcomes  Ferdinand Haschke

14:30 – 15:30  Early Life Nutrition and Cognitive Development  Weili Lin

15:30 – 16:00  Coffee Break

16:00 – 17:00  Early Life Nutrition and Immune Development  Valerie Verhasselt

17:00 – 18:00  Early Life Nutrition and Microbiome Development  Erika Isolauri
"Human Milk: Composition, Clinical Benefits and Future Opportunities"

**Wednesday, November 1, 2017**

**Session III**  
Clinical Aspects of Human Milk on Infant Health Outcomes (continued)  
Chair: Sharon Donovan

08:30 – 09:30  
Human Milk and Clinical Outcomes in Preterm Infants  
Paula Meier

**Session IV**  
Research Gap and Opportunities  
Chair: Bruce German

09:30 – 10:30  
Metabolomics’ Approach in HM Research  
Carolyn Slupsky

10:30 – 11:00  
Coffee Break

11:00 – 12:00  
Next Generation of Milk’s Benefits: Behavioural Outcomes  
Katie Hinde

12:00 – 13:00  
Oligosaccharides: Next Generation Functions  
Lars Bode

13:00 – 14:00  
Lunch

14:00 – 15:00  
Guiding Development – Lessons from Mammalia  
Kevin Nicholas

15:00 – 16:00  
Milk’s Structural Dynamics: Nutrient Delivery System  
Bruce German

16:00 – 16:30  
Closing of the Workshop