**Human Nutrition, Environment and Health**

Scientific Organizers: Martin Kussmann, Hannelore Daniel and Jacqueline Pontes Monteiro

China World Hotel • Beijing, China • October 14-18, 2015

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**WEDNESDAY, OCTOBER 14**

16:00–20:00  Grand Ballroom Foyer  Arrival and Registration

18:00–20:00  Grand Ballroom Foyer  Welcome Mixer

**THURSDAY, OCTOBER 15**

08:00–09:00  Individual Hotel  Breakfast

09:00–10:00  Conference Hall A  Welcome and Keynote Address

*Martin Kussmann*, Nestlé Institute of Health Sciences, Switzerland

*Jacqueline Pontes Monteiro*, Universidade de São Paulo, Brazil

*Hannelore Daniel*, Technische Universität München, Germany

*José M. Ordovás*, Tufts University, USA

_Human Health, Genes and Diet_

10:00–12:15  Conference Hall A  The Interaction between Human Genome, Diet and Environment

*Martin Kussmann*, Nestlé Institute of Health Sciences, Switzerland

_Claudio Franceschi_, University of Bologna, Italy

_Leroy E. Hood_, Institute for Systems Biology, USA

_Liping Zhao_, Shanghai Jiao Tong University, China

_Dietary Modulation of Gut Microbiota for Obesity Management: From Association to Causation to Translation_

_Alexander M. Vaiserman_, Institute of Gerontology, Ukraine (2021)

_Short Talk: Developmental Nutritional Programming of Type 2 Diabetes: Evidence from the Ukraine Famine of 1932-1933_

10:40–11:00  Conference Hall Foyer  Coffee Break

12:15–13:00  Conference Hall B  Poster Setup

13:00–22:00  Conference Hall B  Poster Viewing

16:30–17:00  Conference Hall Foyer  Coffee Available

17:00–19:00  Conference Hall A  Translational Models for Human Nutrition and Health

*Kendal Hirschi*, Baylor College Medicine, USA

_Vijayalakshmi Varma_, National Center for Toxicological Research, FDA, USA

_Adipocyte Responses to Fructose: A Characterization Using Systems Biology Approaches_

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Aldons J. Lusis, University of California, Los Angeles, USA  
Systems Genetics Analysis of Host-Gut Microbiota Interactions

Patrick J. Stover, Cornell University, USA  
In Search of a Common Pathway for Folic Acid-Responsive Neural Tube Defects, Neurodegeneration and Cancer

Sumei Hu, Institute of Food and Health, University College Dublin, Ireland (1017)  
Short Talk: The Impact of Milk Derived Bioactives on Glycemic Management

19:00–20:00  Conference Hall B  Social Hour with Lite Bites
19:30–22:00  Conference Hall B  Poster Session 1

FRIDAY, OCTOBER 16

08:00–09:00  Individual Hotel  Breakfast
09:00–12:15  Conference Hall A  Human Nutritional and Lifestyle Interventions

*Patrick J. Stover, Cornell University, USA
Hannelore Daniel, Technische Universität München, Germany  
Characterising Normal Human Metabolism

Ben van Ommen, TNO, Netherlands  
Diet, Systems Flexibility and My Optimal Health

Jacqueline Pontes Monteiro, Universidade de São Paulo, Brazil  
The Genomics of Micronutrient Requirements

Robert Zeigler, International Rice Research Institute, Philippines  
Rice as a Tool to Improve Nutrition for the World’s Poor

Marie Pier Scott-Boyer, University of Trento Centre for Computational Biol, Italy (2016)  
Short Talk: Network-Based Analysis of Cofactor-Protein Interactions in Nutrition and Complex Diseases

Namita Parikh Mahalle, Deenanath Mangeshkar Hospital and Research Center, India (2001)  
Short Talk: A Study of Nutritional Factors and its Relation with Insulin Resistance and Inflammatory Markers in Patients with Coronary Artery Disease in Indian Population

10:20–10:40  Conference Hall Foyer  Coffee Break
12:15–17:00  Conference Hall B  Poster Viewing

On Own for Lunch
16:30–17:00  Conference Hall Foyer  Coffee Available
17:00–19:00  Conference Hall A  Capturing and Monitoring Human Individuality

*Chris Evelo, Maastricht University, Netherlands (1027)
Qiang Tian, Institute for Systems Biology, USA  
Wellness, Diseases and P4 Medicine

Rui Chen, Stanford University, USA  
Longitudinal Omics in Humans

Rick Weiss, Viocare, Inc, USA  
Self-Monitoring of Diet and Lifestyle

Karsten Hiller, University of Luxembourg, Luxembourg (1016)  
Short Talk: Combining Dried Blood Spots with Stable-Isotope Tracers to Profile Dynamics of Glucose Metabolism in Human Subjects

19:00–20:00  Conference Hall B  Social Hour with Lite Bites

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SATURDAY, OCTOBER 17

08:00–09:00  Individual Hotel  Breakfast

09:00–12:15  Conference Hall A  
**From Nutrigenomics to Systems Nutrition**

*Jim Kaput*, Nestlé Institute of Health Sciences, Switzerland

Martin Kussmann, Nestlé Institute of Health Sciences, Switzerland

*Omnics-Rooted Systems Studies of Human Phenotypes*

Lorraine Brennan, University College Dublin, Ireland

*Metabotyping in Nutrition Research*

Robert E.W. Hancock, University of British Columbia, Canada

*Novel Insights from Genomic Information and Applications to Nutrition*

Marijana Radonjic, EdgeLeap, Netherlands

*From Disconnected Data to Emerging Insights: Unraveling Complexity of Food-Health Interactions*

Paloma K. Barrera, INMEGEN, Mexico (1008)

*Short Talk: Antioxidant-Related Gene Expression Changes by Cocoa Polyphenols Intake*

Giuseppe Astarita †, Waters, USA (1006)

*Short Talk: Markers of Health: Molecular Phenotyping Unveils the Healthy Biosignature of “Omega-3” Transgenic Mice*

10:20–10:40  Conference Hall Foyer  Coffee Break

13:00–22:00  Conference Hall B  Poster Viewing

On Own for Lunch

16:30–17:00  Conference Hall Foyer  Coffee Available

17:00–19:00  Conference Hall A  
**Nutrition 2.0 - Translation into Solutions for Human Health**

*Jacqueline Pontes Monteiro*, Universidade de São Paulo, Brazil

Juan B. Ochoa, Nestlé Health Science, USA

*Personalized Nutrition in Critical Care*

Xu Lin, Shanghai Institutes for Biological Sciences Chinese Academy of Sciences, China

*Genetic Variants, Nutrient-Related Biomarkers on Metabolic Diseases in Chinese*

Maria-Carolita Dao, Institute of Cardiometabolism and Nutrition, ICAN, France

*Gut Microbiota and Cardiometabolic Risks*

Andreas Pfeiffer †, Charité University Medicine Berlin and German Institute of Human Nutrition, Germany

*Talk Title to be Announced*

Michael Fenech, CSIRO Food and Nutrition, Australia (1011)

*Short Talk: Plasma Micronutrient Levels and Telomere Length in Children*

19:00–20:00  Conference Hall B  Social Hour with Lite Bites

19:30–22:00  Conference Hall B  
**Poster Session 2**

SUNDAY, OCTOBER 18

08:00–09:00  Individual Hotel  Breakfast

09:00–10:10  Conference Hall A  
**Global Nutrition and Sustainability**

*Ben van Ommen*, TNO, Netherlands

Jim Kaput, Nestlé Institute of Health Sciences, Switzerland

*Enabling Nutrient Security and Sustainability through Systems Research*
Nina V. Fedoroff, Pennsylvania State University, USA
The Safety and Nutritional Value of Organically and Conventionally Grown Food

10:10–10:30  Conference Hall Foyer  Coffee Break

10:30–12:00  Conference Hall A  Panel Discussion: Perspectives and Needs for research in the Food, Diet and Health Relationship
*Martin Kussmann, Nestlé Institute of Health Sciences, Switzerland
Jim Kaput, Nestlé Institute of Health Sciences, Switzerland
Ben van Ommen, TNO, Netherlands
Leroy E. Hood, Institute for Systems Biology, USA
Lorraine Brennan, University College Dublin, Ireland
Claudio Franceschi, University of Bologna, Italy

12:00–12:15  Grand Ballroom A  Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

12:15–14:00  Conference Hall B  Lunch

14:00–16:00  Conference Hall A  Workshop
*Jacqueline Pontes Monteiro, Universidade de São Paulo, Brazil
G. Bhanuprakash Reddy, National Institute of Nutrition, India (2027)
Influence of Micronutrients on Biochemical Pathways Involved in Diabetic Complications
Padmapriyadarsini Chandrasekaran, National Institute for Research in Tuberculosis, India (1009)
Dietary Intake, Nutritional Status and Relationship to Serum Lipids among Antiretroviral Naïve HIV-Infected Children in South India
Neil A. Hanchard, Baylor College of Medicine, USA (1014)
Dna Methylation Changes in Severe Childhood Malnutrition
Shuxin Han, Case Western Reserve University, USA (1013)
Circadian Control of Bile Acid Synthesis by a KLF15-Fgfr15 Axis
Efrat Monsonego Ornan, Hebrew University of Jerusalem, Israel (2004)
Nutritional Aspects of Skeletal Development
Abena S. Amoah, Noguchi Memorial Institute for Medical Research, Ghana (1005)
Breastfeeding Duration and Asthma in Urban Schoolchildren in Ghana
Edwin Andres Higuita, Corporación Universitaria Remington, Colombia (1028)
Immunomodulation of T Cells Subpopulations and NK Cells in Elderly Adults during a 12 Weeks Intervention with a Nutritional Complement Enriched with Biotechnologically Ganoderma lucidum Extracted Beta Glucans (ISRCTN 53126301)
Pieter Johan Giesbertz, Technische Universität München, Germany (1032)
Metabolomic Signatures of Obesity and Diabetes Revealed in Corresponding Genetic Mouse Models

16:30–17:00  China World Summit Wing – Summit Ballroom, Level 3  Coffee Available

17:00–19:00  China World Summit Wing – Summit Ballroom, Level 3  Joint Session with Grand Challenges and Keystone Symposia
Godfrey Oakley, Emory University, USA
Epidemic Folic Acid Preventable Spina Bifida and Anencephaly—Important

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Preventable Contribution to Perinatal, Neonatal, Infant and Under 5 Child Mortality

Daniel L. Marks, Oregon Health & Science University, USA
A Comprehensive Approach to Healthy Birth, Growth and Development

19:00–22:00  China World Summit Wing - Kowloon Ballroom, Level 4

Social Hour with Grand Challenges and Keystone Symposia

MONDAY, OCTOBER 19

Departure

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