



Università di Camerino  
Scuola di Scienze del Farmaco e dei Prodotti della Salute  
Nutrigenomics Lab



# NUGO WEEK 2023

Senigallia, Italy, September 5 - 8, 2023



## IMPACT OF NUTRITION DURING DIFFERENT LIFE STAGES TRACING THE IMPACT OF DIET ON HUMAN HEALTH

### 5 September 2023 - 14.30-1.00

14.45 Welcome

15.00-18.00

Chairs: **Guy Vergeres** and **Yiannis Mavrommatis**

#### 1. Early biomarkers of disease: What is new?

- 15.00 *The importance of adequate nutrition and of the intestinal microbiota in the balance between health and disease early in life: the celiac disease paradigm*, **Alessio Fasano**, Massachusetts General Hospital, Boston, MA, USA
- 15.40 Coffee break
- 16.10 *Early-life markers of health and disease across the life course*, **Trudy Voortman**, Erasmus University Medical Center Rotterdam, NL
- 16.50 *The associations between metabolomic responses to a liquid mixed meal and incidence of type 2 diabetes: are there novel biomarkers beyond glucose and triglyceride response?* **Ruifang Li-Gao**, Department of Clinical Epidemiology, Leiden University Medical Center, Leiden, NL
- 17.10 *A multimodal AI approach to achieve optimal vitamin D status through personalized lifestyle interventions in healthy adults*, **Ion Rezola**, Department of Product, Genomcore-Made of Genes, ES
- 17.30 New NuGO Members
- 18.30 Welcome party and networking at Hotel Raffaello -Terrazza Morandi
- 21.00 Cultural event, Senigallia by night: guided visit of Senigallia

### 6 September 2023

9.00 -12.30

Chairs: **Michael Muller** and **Rosita Gabbianelli**

#### 2. Nutrition along life: learning from the exposome

- 9.00 *The planetary health diet and its impact on the gut-brain axis during aging*, **David Vauzour**, Department of Nutrition, Norwich Medical School, University of East Anglia, Norwich, UK
- 9.40 *Multi-omics responses to nutritional challenges and lifestyle interventions*, **Marian Beekman**, Molecular Epidemiology, Department of Biomedical Data Sciences, Leiden University Medical Center, Leiden, NL
- 10.20 Coffee break
- 10.50 *Impact of plant-based diet indexes on the metabolomic profile*, **Elaine Hilleheim**, UCD Institute of Food and Health, UCD School of Agriculture and Food Science, University College Dublin, IE
- 11.10 **Poster session**
- 12.30 Lunch at Hotel Raffaello
- 14.00 **Poster session**
- 15.00 - 18.00
- Chairs: **Laura Bordini** and **Lydia Afman**
- 3. **Tools to trace the impact of nutrition and lifestyle on health**
- 15.00 *Personalised Nutrition for metabolic health*, **Sarah Berry**, Department of Nutrition, King's College London, London, UK
- 15.40 *Use of transcriptomics and metabolomics to trace the impact of dietary fat on CVD risk*, **Stine Ulven**, Department of Nutrition, Institute of Basic Medical Sciences, University of Oslo, Oslo, NO
- 16.20 Coffee break
- 17.30 ECN Network event

### 7 September 2023

9.00 -12.30

Chairs: **Laura Bordini** and **Lydia Afman**

#### 4. Strategies to "rejuvenate" organs

- 9.00 *Epigenetic clocks - measuring and predicting our (future) health*, **Ferdinand von Meyenn**, Laboratory of Nutrition and Metabolic Epigenetics, Institute for Food, Nutrition and Health, Department of Health Sciences and Technology, ETH Zurich, Zurich, CH
- 9.40 *Regulation of skeletal muscle insulin sensitivity*, **Anna Krook**, Department of Physiology and Pharmacology, Integrative Physiology, Karolinska Institutet, Stockholm, SE
- 10.20 Coffee break
- 10.50 *Altered placental and cord blood DNA methylation patterns associated with Gestational Diabetes Mellitus in marginalized Burman and Karen populations on the Thailand-Myanmar border: Is there a role for diet?* **Fatima Ahmad**, Maternal and Child Health Department, Sidra Medicine, Doha, Q.
- 11.10 *Tissue-specific insulin resistance phenotype-diet interactions in fasting and postprandial metabolite responses to a 12-week high-MUFA or low-fat, high-protein, high-fibre diet: a secondary analysis of the PERSON study*, **Anouk Gijbels**, Division of Human Nutrition and Health, Wageningen University, Wageningen, NL
- 11.30 Group Photo
- 11.45 **Poster session**
- 12.30 Lunch at Hotel Raffaello
- 14.00 **Poster session**
- 15.00-17.00
- Chairs: **Michael Muller** and **Rosita Gabbianelli**
- 5. **Nutrigenomics in the control of low-grade inflammation**
- 15.00 *Nutrigenetic and Nutrimetabolomic Analyses of Proinflammatory Dietary Patterns and Cardiometabolic Health*, **Frank B Hu**, Departments of Nutrition and Epidemiology, Harvard T.H. Chan School of Public Health; Division of Network Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA
- 15.40 *In search of biomarkers: mapping the effects of plant-based proteins on human metabolic profiling*, **Samira Prado**, School of Medical Sciences, Faculty of Medicine and Health, Örebro University, Örebro, SE
- 16.00 *Factors that influence intention to use gene-based personalised diet and physical activity advice in young adults that perceive themselves to be a healthy weight versus overweight or obese*, **Alexandra King**, Faculty of Sport, Allied Health, and Performance Science, St Mary's University, Twickenham, UK
- 16.20 Coffee break
- 17.00 Visit to the Casalfarneto winery and social dinner

### 8 September 2023

9.00 -12.30

Chairs: **Baukje de Roos** and **John Mathers**

#### 6. Social and gender inequalities drive unhealthy outcomes

- 9.00 *External Social Forces That Drive Unhealthy Dietary Choices*, **Alice H Lichtenstein**, Cardiovascular Nutrition Laboratory, Jean Mayer USDA Human Nutrition Research Center, Tufts University, Boston, MA, USA
- 9.40 *AI for precision dementia medicine with special reference to inequalities and nutrition*, **David Llewellyn**, University of Exeter Medical School, Exeter, UK.
- 10.20 Coffee break
- 10.50 *Sex and gender inequalities in cardiovascular risk across ethnic groups*, **Irene G Van Valkengoed**, Department of Public and Occupational Health, Section Ethnicity, Gender and Health, Amsterdam UMC, NL
- 11.30 NuGO Best oral presentation and Best Poster award
- 11.40 ECN promotion
- 11.50 NuGOweek 2024 Announcement
- 12.15 Farewell



Since 1947

AuChem Instruments

CONTRAVE



Info: [www.nugo.org](http://www.nugo.org)