

## 6<sup>th</sup> European Summer School on Nutrigenomics

### OMICS APPROACHES TO EARLY LIFE PROGRAMMING OF ADULT HEALTH

Fabriano, Paper and Watermark Museum, Fabriano (AN)

16-19 June 2026

(Tuesday afternoon, Wednesday and Thursday all day, Friday morning)

#### 1. Transcriptomics in Brain Development

14:45: Welcome

**15:00-15:45 Katharina Gapp**, Department of Health Sciences and Technology, Lab of Epigenetics and Neuroendocrinology, ETH Zurich

*Stress and its sequel: shaping brain health across the lifespan and beyond*

**15:45-16:30 Ina Bergheim**, Department of Nutritional Sciences, University of Vienna

*Alcohol consumption during adolescence and early adulthood as trigger of old age cognitive decline*

**16:30-17:00 Coffee break**

**Short Talks**

**17:00-17:20**

**17:20-17:40**

**17:40-18:00**

**18:00 Welcome party + visit Museum of Paper and Watermark**

#### 2. Epigenomics in Developmental Origins of Health and Disease

**9:00-9:45 Torsten Plosch**, Department of Human Medicine, Division of Perinatal Neurobiology, School of Medicine and Health Science, Carl von Ossietzky Universität Oldenburg

*Epigenomic discoveries in a pediatric population – lessons from the first 1000 days and beyond.*

**09:45-10:30 Rob Waterland**, Baylor college, Baylor College of MedicineUSDA/ARS Children's Nutrition Research Center

*An Opportunity to Accelerate Progress in Epigenetic Epidemiology of DOHaD*

**10:30-11:00 Coffee break**

**Short Talks**

**11:00-11:20**

**11:20-11:40**

**11:40-12:00**

**12:00-12:20**

**12:20-12:40**

**12:40-13:00**

***13:00-15:00 Lunch and poster session***

**15:00-15:45 Raffaele Teperino, Institute of Experimental Genetics - Helmholtz Diabetes Center**  
***The intergenerational impact of paternal preconceptional health***

**15:45- 16:30 Wim Van der Berghe, Department Biomedical Sciences - University Antwerp**  
***Chicken or egg: unveiling diet related transcription factor drivers and passengers in epigenetic age acceleration in Metabolic dysfunction associated liver disease (MASLD) and Alzheimer's disease***

***16:30- 17:00 Coffee Break***

***Short Talks***

***17:00-18:00***

***17:00-17:20***

***17:20-17:40***

***17:40-18:00***

### **3. Microbiomics and Gut Health**

**9:00-9:45 Omry Koren, Azrieli Faculty of Medicine, Bar-Ilan University**  
***How the gut microbiome in pregnancy and infancy influences lifelong health***

**9:45-10:30 Nicola Segata, Department of Cellular, Computational and Integrative Biology - CIBIO University of Trento**  
***Baby-to-baby strain transmission shape the developing gut microbiome***

***10:30-11:00 Coffee break***

***11:00 Group Photo***

***Short Talks***

***11:10-11:30***

***11:30-11:50***

***11:50-12:10***

***12:10-12:30***

***12:30-12:50***

***12:50-15:00 Lunch and poster session***

**15:00 – 15:45 Nissan Yissachar, Bar-Ilan University**  
***Modeling Host–Microbiome Cross-Talks On-a-Chip: Molecular Insights into Early-Life Gut Programming***

**15:45- 16:30 Lior Lobel, Bar-Ilan University**  
***Metaproteomic Investigations into Diet-Host-Microbe Interactions***

***16:45 Cultural event in Fabriano***

*19:30 Gala dinner*

#### **4. Metabolomics and lipidomics in Neonatal Nutrition**

**9:00-9:45 Liza Konnikova**, Yale University School of Medicine

*Development of placental immunity, metabolomics and immunopeptidomics.*

**9:45-10:30 Baukje de Roos**, Human Nutrition, The Rowett Institute, University of Aberdeen

*Using metabolomic and lipidomic tools to assess the role of early diets on neurodevelopmental and cardiometabolic outcomes in later life.*

**10:30-11:00 Coffee break**

**11:00-11:45 Carla Ferreri**, CNR

*Precision Nutrition in Action: How PUFAs, Nutrigenomics, and Membrane Lipidomics Orchestrate Neonatal Health*

**11:45-12:00 Best Oral and Best short talk awards**

**12:00 Farewell**