

6th 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, metabolimics 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