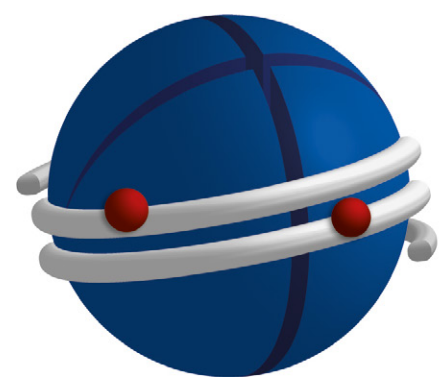




Scuola di Scienze del Farmaco e dei Prodotti della Salute



nutriGenomics
summer school
UNICAM



Città di Fabriano

FABRIANO
City of Crafts and Folk Art
Designated UNESCO
Creative City in 2013

6th European Summer School on Nutrigenomics

OMICS APPROACHES TO EARLY LIFE PROGRAMMING OF ADULT HEALTH

Fabriano (AN) 16-19 June 2026
Paper and Watermark Museum

<p>16 June 2026</p> <p>14:00 Registration</p> <p>14:45 Welcome</p> <p>15:00 Transcriptomics in Brain Development Chairs: Torsten Plosch and Omry Koren</p> <p>15:00 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</p> <p>15:45 Ina Bergheim, Department of Nutritional Sciences, University of Vienna Alcohol consumption during adolescence and early adulthood as trigger of old age cognitive decline</p> <p>16:30 Coffee break</p> <p>Selected oral talk</p> <p>17:00 Chiara Galli, Characterization of the leptin-oxytocin crosstalk during early postnatal development and after early life stress</p> <p>Flash Talks</p> <p>17:20 Shalendra Kumar Gangwar, EARLYMAP: Multi-Omics Integration for Early Prediction of Cognitive Impairment using a Machine Learning Approach</p> <p>17:25 Nerea Diéguez-Martín, Nutritional modulation of miRNAs in cognitive decline and dementia: a systematic review of preclinical and clinical studies</p> <p>17:30 Laura Panisello, Nutrigenomic modulation of brain function by nut consumption through cross-tissue microRNA regulation in Alzheimer's disease</p> <p>17:35 Joanna Ratajczak, Time-Dependent Cognitive and Neurotrophic Effects of Resistance Training and Dance-Based Exercise Programs: A Pilot Study</p> <p>17:40 Questions and Discussion</p> <p>18:00 Welcome party networking</p> <p>18:45 Cultural event: Visit Museum of Paper and Watermark</p> <p>17 June 2026</p> <p>09:00 Epigenomics in Developmental Origins of Health and Disease Chairs: Ina Bergheim and Lior Lobel</p> <p>09:00 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.</p> <p>09:45 Rob Waterland, Baylor college, Baylor College of Medicine/USDA/ARS Children's Nutrition Research Center An Opportunity to Accelerate Progress in Epigenetic Epidemiology of DOHaD</p> <p>10:30 Coffee break</p>	<p>Selected oral talks</p> <p>11:00 Chloe Chauvel, Early-life programming of overweight: new insights into the effects of maternal overweight and neonatal colostrum intake from a longitudinal canine cohort</p> <p>11:20 Diana André, Nutrigenomic Regulation of Male Fertility: The Role of SIRT6 and Acetyl-lysine Profiles in Response to Caloric Restriction and GLP-1</p> <p>Flash Talks</p> <p>11:40 Ranjini Ghosh Dastidar, Dynamic System Identification from Longitudinal Vitamin D Perturbations Reveals Regulatory Control Architecture of Interindividual Responsiveness</p> <p>11:45 Seyedalireza Kasaiyan, Effect of the use of cooked chickpea as partial meat replacer and banana pseudostem as fibre source on the composition and microbial changes of vacuum packaged cooked sausages</p> <p>11:50 Tanya Tripathi, Vitamin D supplementation induces regimen-specific immune programs in multiple sclerosis: a multi-omics study</p> <p>11:55 Alba Ciattaglia, Impact of Vitamin D Supplementation on Aromatase Inhibitor-Induced Musculoskeletal Symptoms: A Systematic Review and Meta-Analysis Incorporating the DOHaD Perspective</p> <p>12:00 Mary Agwai, The impact of single nucleotide polymorphism (rs9939609) on BMI: a systematic review with meta-analysis</p> <p>12:05 Georgiana Ioana Benche, From Nutrient Signals to Epigenetic Memory: Early-Life Metabolic Programming of Adult Disease</p> <p>12:10 Ewa Bryl, Effects of a 6-Month Exercise Program on Incretin and Appetite-Regulating Hormones in Women Aged >50: A Pilot Study</p> <p>12:15 Anindhita Syahbi Syagata, Association of Childhood Stunting with Obesity and Stunting in Adolescence in Yogyakarta, Indonesia</p> <p>12:20 Questions and Discussion</p> <p>12:40 Lunch</p> <p>Chairs: Carla Ferreri and Nissan Yissachar</p> <p>14:30 Raffaele Teperino, Institute of Experimental Genetics - Helmholtz Diabetes Center The intergenerational impact of paternal preconceptional health</p> <p>15:15 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</p> <p>16:00 Coffee Break</p> <p>Selected oral talks</p> <p>16:30 Xiang Yuyao, The impact of gestational diabetes mellitus on pancreatic development in mice</p> <p>16:50 Alice Ricco, Association of plant-based protein intake with epigenetic age deceleration in the Netherlands Twins Register</p> <p>17:10 Agnieszka Bartoszek, Digestion and absorption of dietary nucleic acids; the understudied area concerning an abundant food component with a variety of nutritional effects</p>	<p>Flash Talks</p> <p>17:30 Asmita Mukundrao Acharya, Hesperetin from Mediterranean Diet Citrus Fruits Modulates Metabolic Activity in an In Vitro Hepatic Cell Model under Inflammatory, Hormonal and Oxidative Stress</p> <p>17:35 Zuzanna Margas, Fasting modifies changes in TMAO and Tryptophan metabolites levels.</p> <p>17:40 Karen Fransen, The interplay between plant-forward diets, maternal micronutrient status, and infant immune development: study design of an innovative cohort</p> <p>17:45 Martin Horní, MASLD progression alterations of glutathione peroxidase 7 expression</p> <p>17:50 Pieter De Clercq, The Function of Bile Salts in Host-Microbe Crosstalk</p> <p>17:55 Questions and Discussion</p> <p>18 June 2026</p> <p>09:00 Microbiomics and Gut Health Chairs: Liza Konnikova and Rob Waterland</p> <p>09:00 Omry Koren, Azrieli Faculty of Medicine, Bar-Ilan University How the gut microbiome in pregnancy and infancy influences lifelong health</p> <p>09:45 Nicola Segata, Department of Cellular, Computational and Integrative Biology - CIBIO University of Trento Baby-to-baby strain transmission shape the developing gut microbiome</p> <p>10:30 Coffee break</p> <p>10:50 Group Photo</p> <p>Selected oral talks</p> <p>11:00 Lucia Occhigrossi, Modelling Early-Life Gut-Brain Interactions Using iPSC-Derived Neural Systems</p> <p>11:20 Fatemeh Mansouri, Bifidogenic Effects of Supplemented Infant Formulas: Evidence from a Systematic Review and Network Meta-Analysis of Randomized Controlled Trials</p> <p>11:40 Christian Giommi, Multi-Omics Insights into Probiotic Mitigation of Bisphenol A-Induced Liver and Gut Alterations</p> <p>Flash Talks</p> <p>12:00 Rucci Chiara, Nutrigenomic insights into matcha tea and probiotic interactions</p> <p>12:05 Feliziani Giulia, Processing strategies to enhance the nutritional quality and intestinal response of pigmented wheat porridges for early-life nutrition</p> <p>12:10 Junior Carlone, Beyond the Season Effect: Individual Microbiome Identity and a Novel Performance Metric in Elite Volleyball Athletes</p> <p>12:15 Ellie Foster, Elucidating the mechanisms underlying the gut healing potential of gut-derived bacterial isolates</p> <p>12:20 Questions and Discussion</p> <p>12:40 Lunch</p>	<p>Chairs: Baukje de Roos and Raffaele Teperino</p> <p>14:30 Nissan Yissachar, Bar-Ilan University Modeling Host-Microbiome Cross-Talks On-a-Chip: Molecular Insights into Early-Life Gut Programming</p> <p>15:15 Lior Lobel, Bar-Ilan University Metaproteomic Investigations into Diet-Host-Microbe Interactions</p> <p>16:00 Coffee break</p> <p>16:30 Cultural event: Visit to the Fondazione Fedrigoni, the Oratorio della Carità and the Teatro Gentile</p> <p>19:30 Gala dinner - Chostro San Benedetto</p> <p>19 June 2026</p> <p>09:00 Metabolomics and Lipidomics in Neonatal Nutrition Chairs: Wim Van der Berghe and Nicola Segata</p> <p>09:00 Liza Konnikova, Yale University School of Medicine Development of placental immunity, metabolomics and immunopeptidomics</p> <p>09:45 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</p> <p>10:30 Coffee break</p> <p>11:00 Carla Ferreri, CNR Precision Nutrition in Action: How PUFAs, Nutrigenomics, and Membrane Lipidomics Orchestrate Neonatal Health</p> <p>11:45 Best Oral and Best short talk awards and Zanichelli Awards</p> <p>12:00 Farewell</p>
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