



# Second European Summer School on Nutrigenomics

University of Camerino 5-9 September 2016  
Camerino, Italy - Palazzo Ducale, Sala della Muta



The 2<sup>nd</sup> European Summer School on Nutrigenomics intends to respond to the following question:  
*How does diet shape microbiota to promote health?*

To reach this goal, researchers with expertise on microbiota, transcriptomics, metabolomics, proteomics and epigenetics will discuss topics related to the nutritional approaches for the prevention of metabolic, bowel and neurodegenerative diseases.

## How nutrition/diet promotes human health: interplay between nutrigenomics and microbiota

### Monday, 5<sup>th</sup> September

#### HOW MICROBIOTA CAN BE SHAPED BY DIET

14.00 Registration

15.00 Welcome

Chairs: **Torsten Plösch**,  
**Stefano Lorenzetti**

15.30 Keynote Lecture  
**Omyr Koren**

Bar-Ilan University, Israel  
*The Gut Microbiota in Health and Disease*

16.15 Keynote Lecture

**Michael Müller**  
University of East Anglia, Norwich, U.K.  
*How microbiota can be shaped by diet?*

17.00 Coffee break

17.30 Round-table

*Microbiota and host: Nutrigenomic effects*  
Chairs: **Torsten Plösch**,  
**Stefano Lorenzetti**  
*Take home message from the speakers of the day*

18.00 Poster session

20.00 Social dinner  
at Relais Villa Fornari, Camerino

### Tuesday, 6<sup>th</sup> September

#### A NOVEL CROSS-TALKING STORY: NUTRIGENOMICS-(NON) NUTRIENTS BIOAVAILABILITY-MICROBIOTA

Chairs: **Alfredo Martinez**,  
**Omyr Koren**

9.00 Keynote Lecture

**Harry Flint**  
University of Aberdeen, U.K.  
*Metabolic consequences of plant-based food fermentation in the human colon*

9.45 **Stefano Lorenzetti**

ISS Rome, Italy  
*Food as source of Endocrine Disruptors: plant bioactives and environmental contaminants*

10.30 Coffee break

11.00 **Wim Vanden Berghe**

University of Antwerp, Belgium  
*From inflammaging to healthy aging by epigenetic reprogramming through diet-gut microbiome metabolites*

11.45 *Effects of yerba mate on mitochondrial biogenesis*

**Marcelo L. Ribeiro**, Sao Francisco University, Bragança Paulista, SP, Brazil

12.00 *Induction of phase II detoxification enzymes by fruit extracts rich in anthocyanins*

**Izabela Koss-Mikołajczyk**, Gdańsk University of Technology, Gdańsk, Poland

12.15 Round-table

*Career perspectives in nutrition-related fields: some insights from the insiders*  
Chairs: **Annemarie Baars**,  
**Stefano Lorenzetti**,  
**Torsten Plösch**

13.00 Lunch

15.00 **Alfredo Martinez**

University of Navarra, Center for Nutrition Research, Pamplona, España  
*The role of polyphenols on gut microbiota adaptation*

15.45 **Laura Bordoni**

University of Camerino, Italy  
*A systematic review on the "Paleo diet" and its effects on health: Keyson for an applied evidence-based nutrition*

16.05 **Massimiliano Bearzot**  
Customer Consultant South Europe and Israel, Research Solutions, Elsevier B.V. Mendeley: *your research, anywhere*

16.45 Coffee break

17.15 Round-table

*Practical aspects related to diet*  
Chair: **Michael Müller**  
*Take home message from the speakers of the day*

17.45 Poster session

20.00 Medieval Dinner at 'Muralto' Tavern, Camerino

### Wednesday, 7<sup>th</sup> September

#### DIET/MICROBIOTA INTERACTION AND THE GASTROINTESTINAL TRACT: BOWEL DISEASES

Chairs: **Ram Raifen**,  
**Raffaele de Caterina**

9.00 **Roberto Berni Canani**

University of Naples 'Federico II', Italy  
*Gut microbiota as target for food allergy treatment*

9.45 **Simon Carding**

Institute of Food Research and Norwich Medical School, Norwich, UK  
*Strategies to promote a healthy gut*

10.30 Coffee break

11.00 **Christine Casen**

Genetic Analysis AS, Oslo, Norway  
*Diagnostic methods to facilitate microbiome profiling in IBS and IBD*

11.45 *Investigating the effects of short-term probiotic intake on the saliva microbiome by 16S rRNA sequencing in a two stage study design*

**Francesco Asnicar**, University of Trento, Italy

12.00 *Antioxidant activity and gut epithelial regenerative effect of probiotics*  
**Stefania De Marco**, University of Perugia, Perugia, Italy

12.30 *Protection with electrolyzed reduced water on gut microbiota in rats exposed to permethrin during postnatal development*

**Cinzia Nasuti**, University of Camerino, Camerino, Italy

13.00 Lunch

15.00 **Nicola Segata**

University of Trento, Italy  
*Strain-level population metagenomics: personalization, transmission and biogeography of the human microbiome*

15.45 **Ram Reifen**

The Hebrew University of Jerusalem, Israel  
*Nutrition in the fight against inflammation*

16.30 **Carlos Rodriguez Del Rio**

Elsevier, Oxford, U.K.  
*Don't put your research on a diet - find comprehensive nutrition information with Embase!*

17.00 Coffee break

17.30 Round-table

*A guide to good gut health*  
Chair: **Raffaele De Caterina**  
*Take home message from the speakers of the day*

18.00 Poster session

20.00 Dinner  
at 'Santacchi Palace', Camerino

21.30 THE LADDERS in concert:  
A Tribute to the Beatles

### Thursday, 8<sup>th</sup> September

#### DIET/MICROBIOTA INTERACTION AND THE METABOLIC SYNDROME

Chairs: **Harry Flint**,  
**Michael Muller**

9.00 **Clarissa Gerhäuser**

German Cancer Research Center (DKFZ) Heidelberg, Germany  
*Impact of gut microbiota and microbial metabolites on the epigenome*

9.45 **Torsten Plösch**

University Medical Center Groningen, The Netherlands  
*How the mother influences the offspring: the role of microbiota*

10.30 Coffee break

11.00 **Mirko Trajkovski**, Centre Médical

Universitaire, University of Geneva Genève, Switzerland  
*Microbiota depletion promotes browning of white adipose tissue and reduces obesity*

11.45 *Long-term supplementation of dietary inulin and short-chain fatty acids (SCFAs) suppress high-fat diet-induced obesity in C57BL/6J mice*

**Karolin Weitkunat**1, German Institute of Human Nutrition Potsdam-Rehbruecke, Nuthetal, Germany

12.00 *The inherited microbiome: towards a map of microbial strains and functions vertically transmitted from mother to infant*

**Serena Manara**, University of Trento, Italy

12.15 *In Vitro Conjugal Transfer of Erythromycin Resistance from Enterococci Isolated from Omnivore and Vegetarian Subjects*

**Litta-Mulondo Alice**, Department of Life and Environmental Sciences, Polytechnic University of Marche, Ancona, Italy

13.00 Lunch

14.45 **Filipe De Vadder**

Wallenberg Laboratory, University of Gothenburg, Göteborg, Sweden  
*Microbiota dietary fibers and glucose metabolism*

15.30 **Annemarie Baars**

Early Life Nutrition, Developmental Physiology, Nutricia Research, Utrecht, The Netherlands  
*How early life nutrition promotes metabolic health in adulthood*

16.15 Round-table

*Nutritional recommendations to prevent metabolic diseases through microbiota modulation*  
Chair: **Massimiliano Petrelli**  
*Take home message from the speakers of the day*

16.45 Coffee break

Poster session

17.00 Visit and dinner  
at the 'Pallotta Castle', Caldarola

Selected presentations from participants

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Selected presentations from participants

### Scientific Committee

**De Caterina Raffaele**, 'G. d'Annunzio' University, Chieti, Italy  
**Gabbianelli Rosita**, University of Camerino, Italy  
**Lorenzetti Stefano**, Istituto Superiore di Sanità, ISS, Roma, Italy  
**Martinez Alfredo**, Universidad de Navarra, Pamplona, Spain  
**Müller Michael**, University of East Anglia, Norwich Research Park, Norwich, United Kingdom  
**Nasuti Cinzia**, University of Camerino, Italy  
**Plösch Torsten**, University Medical Center Groningen, The Netherlands  
**Reifen Ram**, University of Jerusalem, Israel  
**Teller Inga**, Utrecht, The Netherlands

### Local Organizing Committee

**Bordoni Laura**  
**Fedeli Donatella**  
**Gabbianelli Rosita**  
**Nasuti Cinzia**  
University of Camerino, Camerino, Italy  
**Cartechini Maria Giulia**  
ASUR Marche, Italy

All participants will acquire 6 CFU/ECTS

### Further information

[nutrigenomics@unicam.it](mailto:nutrigenomics@unicam.it)  
[www.unicam.it/nutrigenomics](http://www.unicam.it/nutrigenomics)