



Second European Summer School on Nutrigenomics

University of Camerino
5-9 September 2016



The 2nd 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, 5th September

HOW MICROBIOTA CAN BE SHAPED BY DIET

14.00 Registration

15.00 Welcome

Chairs: **Torsten Plösch**,
Stefano Lorenzetti

Keynote Lecture

Omry Koren

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

Keynote Lecture

Michael Müller

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

Round-table

Microbiota and host: Nutrigenomic effects

Chairs: **Torsten Plösch**,
Stefano Lorenzetti

Take home message from the speakers of the day

Tuesday, 6th September

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

Chairs: **Michael Müller**,
Omry Koren

9.00

Keynote Lecture

Harry Flint

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

Stefano Lorenzetti

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

Torsten Plösch

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

Selected from abstracts

Round-table

Career perspectives in nutrition-related fields: some insights from the insiders

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

15.00

Alfredo Martinez

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

Selected from abstracts

Round-table

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

Poster session

Wednesday, 7th September

DIET/MICROBIOTA INTERACTION & THE GASTROINTESTINAL TRACT: BOWEL DISEASES

Chairs: **Alfredo Martinez**,
Harry Flint

9.00

Roberto Berni Canani

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

Simon Carding

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

Christine Casen

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

Selected from abstracts

15.00

Nicola Segata

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

Ram Reifen

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

Round-table

A guide to good gut health
Chair: **Roberto Berni Canani**
Take home message from the speakers of the day

Poster session

Thursday, 8th September

DIET/MICROBIOTA INTERACTION AND THE METABOLIC SYNDROME

Chairs: **Raffaele De Caterina**,
Ram Reifen

9.00

Clarissa Gerhäuser

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

Wim Vanden Berghe

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

Mirko Trajkovski

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

Selected from abstracts

15.00

Filipe De Vadder

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

Mona Mischke

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

Selected from abstracts

Round-table

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

Poster session

Friday, 9th September

DIET-MICROBIOTA INTERACTION AND CNS-RELATED DISEASES

Chairs: **Stefano Lorenzetti**,
Cinzia Nasuti

9.00

Veronica A. Witte

Max Planck Institute for Human Cognitive and Brain Sciences Leipzig, Germany
Components of a Mediterranean diet and their impact on cognitive functions in aging

Filip Scheperjans

Helsinki University Hospital, Helsinki, Finland
Gut microbiota are related to Parkinson's disease and clinical phenotype

Francisco Pan-Montojo

Klinikum der Universität München, Munich Cluster of Systems Neurology SyNergy, Germany
Environmental toxins, microbiota and Parkinson's disease

Maria De Angelis

University of Bari 'Aldo Moro', Bari, Italy
Autism spectrum disorders and intestinal microbiota

Round-table

Your gut may hold the key to better brain health
Chair: **Stefano Lorenzetti and all the speakers of the day**
Take home message from the speakers of the day

13.00

Farewell

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
www.unicam.it/nutrigenomics