Second European Summer School on Nutrigenomics

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

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
15.30 Keynote Lecture
Omyr Koren
Bar-Ilan University, Israel
Keynote: 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, 6th 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, UK
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 Vandam Berghes
University of Gent, Belgium
From inflammmaging to healthy aging by epigenetic reprogramming through diet-gut microbiome metabolites
11.45 Effects of early mate on mitochondrial biogenesis
Marcelo L. Ribeiro
San Francisco University, Brazil
12.00 Induction of phase II detoxification enzymes by fruit extracts rich in anthocyanins
Izabela Ross-Miklojczyk
Uniwersytet Poznanski, Poland
12.15 Round-table
Career perspectives in nutrition related fields: some insights from the insiders
Chairs: Annemaria Baars, Stefano Lorenzetti, Torsten Plösch
13.00 Lunch
15.00 Alfredo Martinez
University of Navarra, Center for Nutrition Research, Pamplona, Spain
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: a keyon for an applied evidence-based nutrition
16.05 Massimiliano Bearzot
Customer Consultant South Europe and Israel, Research Solutions, Elsevier B.V.
Mendy: 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 'Murasali' Tavern, Camerino

Wednesday, 7th September
DIET/MICROBIOTA INTERACTION AND THE GASTROINTESTINAL TRACT: BOWEL DISEASES
Chairs: Ram Raifan, Raffaele De Caterina
9.00 Roberto Barni 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 Aucocci, 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
Cimzia 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
Elavire, Oxford, UK
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, 8th 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 gut microbiota influences the offspring: the role of microbiota
10.30 Coffee break
11.00 Mirko Trajkovski, Centre Médical Universitaire, University of Geneva Geneva, 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 (SCFA) suppress high-fat diet-induced obesity in C57Bl/6j mice
Karolin Weikumkat, German Institute of Human Nutrition Potsdam-Rehbrueck, Nuthetal, Germany
12.00 The inherent microbiome towards a map of microbial strains and functions vertically transmitted from mother to offspring
Serena Manara, University of Trento, Italy
12.15 In Vitro Conjugal Transfer of Erythromycin-Resistance from Enterococcus Isolated from Dinivomus and Vegetarian Subjects
Lita-Mulondo Alice, Department of Life and Environmental Sciences, Politechnic University of Marche, Ancona, Italy
13.00 Lunch
14.45 Filip De Vadder
Wallenberg Laboratory, University of Gothenburg, Gothenburg, Sweden
Microbiota dietary fibers and glucose metabolism
15.30 Annemaria 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’, Caldaro

Friday, 9th September
DIET-MICROBIOTA INTERACTION AND CNS-RELATED DISEASES
Chairs: Stefano Lorenzetti, Cinzia Nasuti
8.30 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
9.15 Filip Scheipers
Helios University Hospital, Genk, Belgium
Gut microbiota are related to Parkinson’s disease and clinical phenotype
10.00 Francesco Pan-Montoyo
Klinikum der Universität München, Munich Cluster of Systems Neurology, Germany
Environmental toxins, microbiota and Parkinson’s disease
10.45 Coffee break
11.15 Maria De Angelis
University Bari/’Vito Manzi’, Italy
Autism spectrum disorders and intestinal microbiota
12.00 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
12.45 Announcement of the Best Poster
13.00 Farewell