



**nutriGenomics**  
summer school  
UNICAM

## **4<sup>th</sup> European Summer School on Nutrigenomics**

June 21-25, 2021

VIRTUAL EVENT

**Central Europe Time**

12:00 open section (check your connection)

**13:00 Welcome**

Monday: **Exposome and early nutritional programming of the epigenome**

13:15 **“One minute for you”** (each participant has to provide one slide with her/his photo, affiliation and subject of research/interest RECORDED)

**Chairs: Rosita Gabbianelli, Stefano Lorenzetti**

13:30 **Michael Müller**, Norwich Medical School, University of East Anglia, Norwich, United Kingdom, *We are what we eat and have eaten – Nutrigenomics of the exposome (an introduction)*

14:00 Coffee break

14:15 **Torsten Plosch**, Dept. Obstetrics and Gynaecology, University Medical Center Groningen, The Netherlands, *Fetal and early life programming of health*

14:45 **Louise Harvey**, Nutritional Programming Early Life Nutrition, Danone Nutricia Research, Utrecht, Netherlands, *Windows of opportunity in the first 1000 days for nutritional programming of metabolic health*

15:15 **Inga C Teller**, Institute NaturScience, Bremen, Germany. *Lasting effects of early feeding and angles of breastfeeding support.*

15:45 Discussion with the speakers

16:15 Interactive test

16:30 Close

**Tuesday: Genetics versus epigenetics**

12:45 “*One minute for you*” (each participant has to provide one slide with her/his photo, affiliation and subject of research/interest-RECORDED)

**Chairs: Michael Muller, Baukje De Roos**

13:00 **John Mathers**, Human Nutrition Research Centre, Population Health Sciences Institute, Newcastle University. U.K. *Scientific basis of human variability and potential for translation in personalised nutrition*

13:30 **Marianne Rots**, Department of Pathology and Medical Biology, University Medical Center Groningen, The Netherlands, *Mitochondrial DNA methylation: is it or is it not? (what is the true question?)*”

14:00 Coffee break

14:15 **Wim Vanden Berghe**, Laboratory of Protein chemistry, Proteomics and Epigenetic Signaling University, Antwerp (Wilrijk), Belgium, *GWAS and EWAS: the Jekyll and Hyde sides of metabolic health and disease*

14:45 **Tomasz Jurkowski**, University of Cardiff, United Kingdom, *Diet, environmental factors and epigenetic machinery.*

15:15 **Valerio Napolioni**, University of Camerino, Italy, *Polygenic Risk Scores: an effective tool for genomic-based medicine in human complex traits*

15:45 Presentations/poster from young participants

16:15 Coffee break

16:30 Technical talk **Marianne Rots**, Department of Pathology and Medical Biology, University Medical Center Groningen, The Netherlands *Detecting mitochondrial DNA modification differences in clinical samples*

16:45 Technical talk **Wim Vanden Berghe** Laboratory of Protein chemistry, Proteomics and Epigenetic Signaling University, Antwerp (Wilrijk), Belgium, *Resolving epigenetic flavours by genomic and proteomic approaches.*

17:00 Research talk **John Mathers**, Human Nutrition Research Centre, Population Health Sciences Institute, Newcastle University. U.K. *Using personalised nutrition to improve public health: lessons from the Food4Me Study*

17:15 Coffee break

17:30 Research talk **Louise Harvey**, Nutritional Programming Early Life Nutrition, Danone Nutricia Research, Utrecht, Netherlands, *Optimising preclinical models of nutritional programming for markers of metabolic health*

17:45 Research talk **Tomasz Jurkowski**, University of Cardiff, United Kingdom, *Probing epigenetic stability with synthetic approaches*

18:00 Discussion with the speakers

18:30 Interactive test

18:45 Close

Wednesday: **Nutrigenomics supports health and wellbeing: how to do prevention?**

12:45 “**One minute for you**” (each participant has to provide one slide with her/his photo, affiliation and subject of research/interest-RECORDED)

**Chairs: Marianne Rots, Wim Vanden Berghe**

13.00 **Susan Duthie**, The Robert Gordon University, Aberdeen, U.K., *Let food be thy medicine & medicine by thy food” Did Hippocrates get it right & is this still relevant for the 21<sup>st</sup> Century?*

13.30 **Gerhauser Clarissa**, Division Cancer Epigenomics, German Cancer Research Center (DKFZ), Heidelberg, Germany, *Multi-layered epigenomic regulation of adipogenesis and its involvement in the pathogenesis of obesity and metabolic syndrome*

14.00 Coffee break

14:15 **Raffaele De Caterina**, University of Pisa, Italy, *The ups, downs, and ups again of omega-3 fatty acids as cardioprotective agents.*

14:45 **Saverio Cinti**, Marche Polytechnic University, Italy, *White, brown and pink adipocytes: the rainbow of the nutritional system.*

15.15 Presentations/poster from young participants

16:00 Coffee break

16:15 Research talk **Baukje De Roos**, Deputy Director Rowett Institutet, University of Aberdeen, U.K *Fish, fish oil and health – nutrigenomic approaches to identify effects and responsiveness*

16:30 Research talk **Gerhauser Clarissa**, Division Cancer Epigenomics, German Cancer Research Center (DKFZ), Heidelberg, Germany, *Modulation of the epigenome during human adipocyte differentiation by docosahexaenoic acid and selected flavanone derivatives.*

16:45 Coffee break

17:00 Research talk **Stefano Lorenzetti**, Istituto Superiore di Sanità – ISS, Roma, Italy, *A short lifestyle intervention study (4-mo RCT) is already sufficient to improve seminal plasma biomarkers in healthy young males living in highly polluted Italian areas ?*

17:15 Technical talk **Susan Duthie**, The Robert Gordon University, Aberdeen, U.K., *Using proteomics to study the impact of folate on human health and disease: a fishing exercise or big game hunting!?*

17:30 Discussion with the speakers

18:00 Interactive test

18:15 Close

Thursday: **Food/environment and microbiota: the choices for wellness**

12:45 **“One minute for you”** (each participant has to provide one slide with her/his photo, affiliation and subject of research/interest-RECORDED)

**Chairs: Susan Duthie, Torsten Plosch**

13:00 **Omry Koren**, Bar Ilan University, Safed, Israel. *The microbiome in the first 1000 days*

13:30 **Marco Ventura**, University of Parma, Italy *The First Microbial Colonizers of the Human Gut: Composition, Activities, and Health Implications of the Infant Gut Microbiota*

14:00 Coffee break

14:15 Presentations/poster from young participants

15:00 Coffee break

15:15 Technical talk **Christian Milani**, University of Parma, Italy *Novel cutting edge metagenomics approaches for the analysis of the microbiota*

15:30 Technical talk **Omry Koren**, Bar Ilan University, Safed, Israel. *Fecal transplants: past, present, future*

15:45 Research talk **Michael Müller**, Norwich Medical School, University of East Anglia, Norwich, United Kingdom, *“A calorie is not a calorie” - The impact of diets for the gut-liver axis*

16:00 Discussion with speakers

16:30 Poster discussion with the speaker ( separated rooms: poster evaluation)

17:00 Face to face with the speakers (participants can meet speakers in individual rooms: 4 rooms one for each topic of the week)

17:30 Interactive test

17:45 Close

**Friday: Nutri-epigenomics for healthy aging: evidence from longitudinal studies**

**Chairs: Gerhauser Clarissa, Omry Koren**

13:00 **Baukje De Roos**, Deputy Director Rowett Institutet, University of Aberdeen, U.K. *Precision nutrition, personalised dietary strategies and improvement of population and individual health – how can we make this work?*

13:30 **Fabio Virgili**, Council for Agricultural Research and Economics - CREA. Rome , Italy. *Are we ready to personalize our diet by DNA-based dietary advices?*

14.00 Coffee break

14:15 **Augustin Scalbert**, International Agency for Research on Cancer, World Health Organisation, Lyon, France. *Dietary polyphenols and cancer risk in the EPIC cohort*

14:45 Round table: M.Muller, De Roos B., M. M., J.Mathers, etc. (Science Communicator and science writer ect) *How to promote health through social interventions?*

15:15 Interactive test

15:30 Best poster award

15:40 **Final evaluation of the summer school**

15:45 Farewell