

# 4th European Summer School on Nutrigenomics

June 21-25, 2021 - Virtual event





12:00 open session (check your connection) Central Europe Tim

Monday: Exposome and early nutritional progra Chairs: Rosita Gabbianelli, Stefano Lorenzetti

13:45 Torsten Plosch, Dept. Obstetrics and Gynaecology, University Medical Center Groningen, The Netherlands, Fetal and early life progra

14:15 Louise Harvey, Nutritional Programming Early Life Nutrition, Danone Nutricia Research, Utrecht, The Netherlands, Windows of opportunity in the first 1000 days for nutritional programming of metabolic health

15:00 Inga C Teller, Institute NaturScience, Bremen, Germany. Lasting effects of early feeding and angles of breastfeeding support

16:00 Getachew Arage, Department of Nutrition and Dietetics, College of Health Sciences, DebreTabor University, Debre Tabor, Ethiopia, Iy Life Exposure to Famine on Adulthood Metabolic and Cognitive outcomes: A Historical Cohort Study from 1983 - 1985 Ethiopian Gre 16:15 Marion Lecorguillé, School of Public Health, Physiotherapy, and Sports Science, University College Dublin, Dublin, Republic of Ireland, Mater and paternal dietary quality, dietary inflammation status, and offspring DNA methylation

16:30 Poster session (poster 11-25, 2 min/person)

13:00 **John Mathers**, Human Nutrition Research Centre, Population Health Sciences Institute, N *bility 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 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 epige* 

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

Selected presentations from participants (10 min + questions): 15:45 Przemyslaw Czajkowski, Clinical Research Centre, Medical University of Bialystok, Poland Dietary fiber intake may inf between FTO genetic variants and obesity-related parameters.
16:00 Lara Coppi, DiSFeB – Università degli Studi di Milano, Italy Role of histone deacetylase 3 (HD)

16:30 Coffee break

16:45 Technical talk Marianne Rots, Department of Pathology and Medical Biology, University Medical Center Groningen, The Netherlands Detecting mitochondrial DNA modification differences in clinical samples

17:00 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.

17:30 Coffee break

17:45 Research talk Louise Harvey, Nutritional Programming Early Life Nutrition, Danone Nutricia Research, Utrecht, The Netherlands, Optimising pre clinical models of nutritional programming for markers of metabolic health

18:00 Research talk **Tomasz Jurkowski**, University of Cardiff, United Kingdom, *Probing epigenetic stability with synt* 

Wednesday: Nutrigenomics supports health 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 Hip**, **this still relevant for the 21st Century?** 

13.30 **Clarissa Gerhauser**, Division Cancer Epigenomics, German Cancer Research Center (DKFZ), Heidelberg, Ge *ulation of adipogenesis and its involvement in the pathogenesis of obesity and metabolic syndrome* 

14:00 Raffaele De Caterina, University of Pisa, Italy, The ups, downs, and ups again of omega-3 fatty acids as card

14:45 Saverio Cinti, Marche Polytechnic University, Italy, White, brown and pink adipocytes: the rainbow of the nutri

15.15 **Alexandra King,** Faculty of Sport, Allied Health and Performance Science, St Mary's University, Twickenham, TW1 45X, UK. **A longit** determine the effect of gene-based personalised diet and physical activity advice on healthy eating motivation in university students 15:30 Kathleen Wijnant, Department of Public Health and Primary Care, Ghent University, Ghent, Belgium, Adolescents' stress reactivity and emotion al eating during a lab stressor: differences depending on chronic stress and overweight

16:00 Research talk Baukje De Roos, Deputy Director Rowett Institutet, University of Aberdeen, U.K Fish, fish oil and health – nutrige es to identify effects and reconnectionness

16:15 Research talk Clarissa Gerhauser, Division Cancer Epigenomics, German Cancer Research Center (DKFZ), Heidelberg, Ge epigenome during human adipocyte differentiation by docosahexaenoic acid and selected flavanone derivatives.

16:30 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?

16:45 Technical talk **Susan Duthie**, The Robert Gordon University, Aberdeen, U.K., **Using proteomics to study the im**, disease:a fishing exercise or big game hunting!?

17:15 Discussion with the speaker

17:45 Interactive test - closing

Thursday: Food/environment and mid Chairs: Susan Duthie, Torsten Plosch

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

Selected presentations from participants (10 min + questions)
14:15 Giulia Gaudioso, Department of Food Quality and Nutrition, Research and Innovation Centre, Fondazione Edmund Mach, San Mitchele all'Adige,
Trento, Italy, In vitro fecal fermentation of Broccolo di Torbole ecotype (Brassica oleracea var. botrytis): analysis of gut microbiota composition
14:30 Federico Bernuzzi, Quadram Institute of Biosciences, Department of Food Health and Innovation, Norwich Research Park NR4 7UA, United Kingdom, The regulation of central metabolism by the food derived bioactive Sulforaphane
14:45 Duygu Dede Sener, Department of Bioinformatics, Maastricht University, The Netherlands, Digestive tract diseases and the microbiome: How to functionally integrate host transcriptomics and metabolomics

15.00 Coffee break

15.15 Technical talk Christian Milani, University of Parma, Italy Novel cutting edge metagenomics approaches for the analysis of the micro

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

16:00 Discussion with speakers

16:30 Poster session (poster 26-40, 2 min/person)

17:15 Poster discussion with the speakers (separated 6 rooms; poster evaluation)

18:00 Face to face with the speakers (participants can meet speakers in individual rooms: 4 rooms one for each topic of the week)

18:30 Interactive test - closing

Friday: Nutri-epigenomics for healtny ac Chairs: Gerhauser Clarissa, Omry Koren

14.00 Coffee break

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

14:45 Round table: Michael Muller, Baukje De Roos, John Mathers, Melita Vidakovic (Science Communicator and science writer ect) How to pro mote health through social interventions?

15:30 Photo with all participants (Screenshot)

15:40 Best poster award

15:45 Farewell



