



Programme



NuGO week 2017: Molecular nutrition – understanding how food influences health

Monday, 28th August

- 16.00 Registration
- 18.00 **Opening NuGOweek 2017**
Diana Ivanova
Welcome and opening
- 18.20 **Session 1a: Precision medicine**
Chair: Diana Ivanova
Yves A. Lussier, University of Arizona, US
Dynamic changes of RNA-sequencing expression for precision medicine: the n=1 pathways approach
- 19.00 Introduction of new NuGO member organisations
- 19.45 Welcome reception at the Palace Hotel Restaurant

Tuesday, 29th August

- 09.00 **Session 1b: Precision medicine**
Chair: Diana Ivanova
Xu Lin, Shanghai Institutes for Biological Sciences, CN
Linking of Omics-based biomarkers with nutrition and metabolic outcomes in Chinese
- 09.40 **David S. Wishart**, University of Alberta, CA
Development of an assay for dietary and exposome measurements for Precision Medicine.
- 10.20 Coffee break
- 11.00 **Stefania Noerman**, University of Eastern Finland, FI
Application of non-targeted metabolic profiling to reveal potential biomarkers linking egg intake and previously observed lower risk of developing type-2 diabetes in middle-aged men.
- 11.20 **Siva Charan Sri Harsha Pedapati**, University College Dublin, IE
Metabolomics approach to identify biomarkers of peas intake
- 11.40 **Kenneth Westermann**, JM-USDA Human Nutrition Research Center on Aging at Tufts University, US
DNA methylation-based cardiovascular risk assessment with applications to nutrition
- 12.00 **Poster Session 1**
- 13.00 Lunch

Break;

Optional: Guided visit of the Varna Archaeological Museum and City Centre

Tour <http://www.archaeo.museumvarna.com/en/>

- 16.00 Session 2: Early Career Investigators Session**
 Chair: Lorraine Brennan
Sonja Lackner, University of Graz, AT
Differences in skin carotenoid level with regard to subcutaneous adipose tissue thickness in patients with Anorexia Nervosa
- 16.20 **Britt Blokker**, University of Eastern Anglia/Quadram Institute Bioscience, UK
Dietary fibres regulate bile acid metabolism independent of the microbiota by suppressing the production of signalling molecule Fgf15 in the ileum
- 16.40 **Jarlei Fiamoncini**, INRA Clermont-Ferrand, FR
In silico prediction of metabolism as a tool to identify new metabolites of dietary monoterpenes in rats
- 17.00 **Desislava Ivanova**, Medical University Varna, BU
Relative gene expression of SIRT6, FOXO4 and HIF3A in patients diagnosed with colorectal cancer
- 17.20 Break
- 18.00 Session 3 : Adipose and related tissues**
 Chair: Richard Mithen
Christian A. Drevon, University of Oslo, NO
Adipokines and myokines are important for several biological effects of adipose tissue and skeletal muscle as well as health.
- 18.40 **Anna Weiser**, Technical University Munich, DE
Acylcarnitine and amino acid profiling in plasma and tissues of NZO mice as a model for obesity-induced type 2 diabetes
- 19.00 **Sindre Lee**, University of Oslo, NO
Impact of short and long-term exercise training on branched-chain amino acid turnover and insulin sensitivity in pre-diabetic and normal weight humans
- 19.20 **Renate Luzía Barbosa Yanez**, German Institute of Human Nutrition, DE
Effect of low carbohydrate / low fat dietary intervention on gene expression of glut transporters in abdominal subcutaneous adipose tissue of type 2 diabetes patients

free evening

Wednesday, 30th August

- 09.00 Session 4: The application of phenotypic flexibility in nutrition research**
 Chair: John Mathers
Hannelore Daniel, Technical University Munich, DE
Identifying metabolotypes: the challenges from NutriTech
- 09.40 **Suzan Wopereis**, TNO, NL
Data integration and phenotypic flexibility
- 10.20 Coffee break
- 11.00 **Charlotte Michielsen**, Wageningen University & Research–Human Nutrition, NL
Effects of a diet high in MUFA and a Mediterranean diet on serum metabolic profile: a randomized fully controlled trial (MARIS).
- 11.20 **Aaron Novikoff**, Technical University Munich, DE
Embracing the Uncorrelated: Dynamic Time Warping for the exploration of high dimensional time-series metabolomics data from the HuMet study
- 11.40 **José Fernández-Calleja**, Wageningen University & Research-Human & Animal Physiology, NL
Monosaccharides in post-weaning diet of young mice program body composition and feeding behaviour in adulthood

12.00 **Poster Session 2**

13.00 Lunch

Break;

Optional: Guided visit of the Aladzha Monastery

<http://www.archaeo.museumvarna.com/en/other/2>

16.00 **Session 5, Diet and cancer prevention**

Chair: Baukje de Roos

Richard Mithen, Institute of Food Research, UK

Integrating transcriptome and metabolome signatures to provide new insights as to how diet can prevent prostate cancer progression.

16.40 **Young-Joon Surh**, Seoul National University, KR/President Asia Pacific

Nutrigenomics and Nutrigenetics Organisation (APNNO)

Anti-inflammatory, proresolving and cancer chemopreventive effects of docosahexaenoic acid and its metabolites

17.20 Break

18.00 **Bistra Galunska**, Medical University Varna, BU

Vitamin D beyond the bone

18.20 **Krasimira Aleksandrova**, DIfE, DE

Nutrition and gastrointestinal cancer: an update of the epidemiological evidence

18.40 **Lynn Vanhaeke**, Ghent University, BE

DNA adduct markers associated with the gastrointestinal digestion of red meat

20.00 Conference dinner at the Palace Hotel Restaurant with poster prize announcement and night party on the beach at Tahiti beach bar near the Palace Hotel

<http://www.sunnydaybg.com/Restaurants-4en.html>

Thursday, 31th August

09.00 **Session 6: New development in (nutritional) genetics**

Chair: Christian Drevon

John Mathers, Newcastle University, UK

The future of nutrigenomics

09.40 **Leta Pilic**, St Mary's University Twickenham, UK

Salt sensitivity: genetic and physiological markers and its effect on salt taste perception and intake

10.00 **Marietta Rodriguez**, Food and Nutrition Research Institute, PH

Genotype frequency in the β -carotene conversion to vitamin A: Implications on reducing vitamin A deficiency in the Philippines

10.20 **Closing Session NuGOweek 2017**

Wrap-up NuGOweek 2017

Announcement NuGOWeek 2018

Closure

10.45 **Lunch to go and NuGO General Members Meeting**

Afternoon: FoodBALL project meeting

Friday 1th September

FoodBALL meeting continued