

The 1st International Conference on

# FOOD BIOACTIVES & HEALTH

13-15 September 2016



Norwich, UK

## Monday 12<sup>th</sup> September

Conference Reception, 19:00

All delegates are invited to attend.

The Top of the Terrace, Norwich City Football Club, NR1 1JE  
Welcome drink and speeches, cold food buffet, Dixie Mix Jazz Trio

## Tuesday 13<sup>th</sup> September

08:40 Conference Opening  
*Paul Kroon, Chair*

08:50 Food and plant bioactives for reducing cardiometabolic disease – how does the evidence stack up?  
*Arrigo Cicero*

09:20 Effects of plant sterols and stanol beyond lowering LDL cholesterol: novel dietary modulators of immune function in asthma patients  
*Jogchum Plat*

09:50 CORDIART<sup>®</sup>, a natural polyphenol extract from sweet oranges, has superior bioavailability and improves endothelial function in healthy overweight individuals  
*Yala Stevens*

10:10 **Coffee break and posters**



- 10:50 Latest evidence of the health benefits of polyphenols  
*Kevin Croft*
- 11:20 Keap-1/Nrf2 signalling: a target for chemoprevention with sulforaphane?  
*Thomas Kensler*
- 11:50 Dietary lutein intake for increasing physical activity: an overview  
*Jonathan Buckley*
- 12:20 **Buffet lunch and posters**
- 12:40 Short talks in the Auditorium
- Concord Grape Juice- positive effects on cognitive function and driving performance: implications for study designs and mechanism of action  
*Louise Dye*
- Acute effects of a flavonoid-rich wild blueberry intervention on mood  
*Claire Williams*
- Polyphenol metabolism – in vivo – in vitro correlation requires evaluation of post-colonic hepatic metabolism  
*Anna-Maria Aura*
- Biotransformation of glucosinolates by human gut bacteria to bioactive isothiocyanates  
*Fatma Cebeci*
- Bioavailability and activity of antihypertensive casein-derived peptides  
*Isidra Recio*
- Towards understanding the low bioavailability of quercetin  
*Maria Buchweitz*
- Glycaemic response regulation through phenolic rich interventions; an integrative mechanistic approach  
*Asimina Kerimi*



Beneficial effects of Bowman-Birk inhibitors from legumes in gut health

*Alfonso Clemente*

13:30 Overview of carotenoid bioavailability determinants: from dietary factors to genetic polymorphisms

*Charles Desmarchelier*

14:00 The role of microbiota metabolism in the bioavailability and efficacy of polyphenols

*Francisco Tomas-Barberan*

14:30 Food bioactives – interactions with gut microbiota structure and function

*Kieran Tuohy*

15:00 A human intervention study to investigate the bioavailability of glucoraphanin and sulfur compounds from novel broccoli soups

*Tharsini Sivapalan*

15:15 Interaction between cocoa flavonols and methylxanthines; vascular effects and flavanol absorption in humans

*Christian Heiss*

15:30 Sodium caprate overcomes limitations of PepT1 saturation when orally delivering the meat-derived antihypertensive peptide Leu-Lys-Pro

*J P Gleeson*

15:40 **Coffee break and posters**

16:20 Re-visit the mechanisms of food protein-derived ACE inhibitory peptides

*Chibuikwe Udenigwe*

16:50 Effect of (poly)phenols on sugar absorption and metabolism

*Gary Williamson*



- 17:20 Onset of hypotensive effect following ingestion of flavan-3-ols involved with the activation of adrenergic receptors  
*Naomi Osakabi*
- 17:35 Dietary bioactive compounds: the transcriptional responses of hepatic cultured cells reveal possible hypolipidemic strategies to prevent metabolic syndrome  
*Alessandra Bordoni*
- 17:50 Ferulic acid-4-O-sulfate as a potent vasorelaxing compound: mechanistic investigation  
*Evelyn Van Rymenant*
- 18:05 Nutrigenomic effects of long-term grapefruit juice consumption: a controlled randomised cross-over study in post-menopausal women  
*Dragan Milenkovic*
- 18:20 End

### **Wednesday 14<sup>th</sup> September**

- 08:40 Sulphur metabolism in Brassica and its possible relationship to human health  
*Richard Mithen*
- 09:10 Omega-3 fatty acids and brain health/neurodegenerative diseases  
*Frederic Calon*
- 09:40 Pomegranate polyphenols and their metabolites interact with VEGF to inhibit VEGFR-2 phosphorylation  
*Rebecca Edwards*
- 09:55 Variability in quercetin action  
*Evert van Schothorst*
- 10:10 **Coffee break and posters**



- 10:50 Biomarkers of nuts exposure in nutrition research  
*Cristina Andres-Lacueva*
- 11:20 Dry-cured meats as a source of bioactive peptides  
*Fidel Toldra*
- 11:50 Brown seaweeds as a novel source of bioactive compounds: exploring the impact of gastrointestinal modifications on their bioavailability and in vivo effects  
*Giulia Corona*
- 12:05 **Buffet lunch and posters**
- 12:30 Short talks in the auditorium

The protective effects and potential mechanisms of action of quercetin on chronic high glucose-induced mitochondrial stress in a hepatic cell model.  
*Michael Houghton*

Beneficial effects of berries intake on survival and cardiac alterations induced by high salt diet in a heart failure rat model  
*Catherine Brenner*

Vasculo-protective effects of curcumin: impact on monocyte to endothelial cell adhesion and transendothelial migration in static and in shear-stress condition  
*Dragan Milenkovic*

Bioprospection of novel therapeutic (poly)phenols from a large soft-fruit germplasm collection  
*Alexandre Foito*

A comparative evaluation of antigenotoxic, antiangiogenic and free radical scavenging potential of tea types obtained from *Camellia sinensis*  
*Amit Seghal*



Alpha-glucosidase and DPP-IV inhibitory activities of peptides released from milk protein by *Lactobacillus* spp.

*Prasad Subhash Patil*

FoodComEx, a new chemical library useful for the food bioactives community

*Claudine Manach*

13:30 Challenges and strategies for the identification of biologically active peptides

*Richard Fitzgerald*

14:00 Development of functional agricultural products and the use of new health claim system in Japan

*Mari Maeda-Yamamoto*

14:30 Health claims made on foods: lessons learnt from successful (and unsuccessful) applications for authorisation

*Silvia Valtuena Martinez*

15:00 BACCHUS Toolkit: helping SMEs submit better health claim dossiers

*Siân Astley*

15:15 Fortification of dark chocolate with spray-dried black mulberry (*Morus nigra*) waste extract encapsulated in chitosan-coated liposomes and bioaccessibility studies

*Kadriye Nur Kasapođlua*

15:30 **Coffee break and posters**

16:10 Access and benefit sharing

*Katie Beckett*

16:25 D-fagomine: a new functional ingredient in the making

*Josep Lluís Torres*

16:40 Dietary exposure biomarkers and metabolic profiling technology to support a standardised validation pipeline for functional foods

*Manfred Beckman*



- 16:55 PhytoHub V1.4: A new release for the online database dedicated to food phytochemicals and their human metabolites  
*Claudine Manach*
- 17:10 Effects of metabolism of polyphenols on their biological activity  
*Daniele Del Rio*
- 17:40 Cocoa polyphenols and the COSMOS study  
*Hagan Schroeter*
- 18:10 End
- 19:00 Conference dinner at St Andrew's Hall

### Thursday 15<sup>th</sup> September

- 09:00 Individual variation in response to lipid-lowering sterol esters and PUFAs: probing the reasons why  
*Peter Jones*
- 09:30 Fish oils and cardiovascular health: role of *apolipoprotein* genotypes  
*Anne Marie Minihane*
- 10:00 Interindividual variability in the absorption, distribution, metabolism and excretion of plant food bioactives  
*Tom van de Wiele*
- 10:20 Variability in the biological responsiveness of plant food bioactives regarding cardiometabolic endpoints  
*Ana Rodriguez-Mateos*
- 10:40 **Coffee break and posters**



- 11:10 Urolithin metabotype clustering determines the effect of pomegranate consumption on lipid cardiometabolic biomarkers. Evidence from a double-blind, cross-over, dose-response, randomized, placebo-controlled trial  
*Antonio Gonzales-Sarrias*
- 11:25 Intra- and inter-individual variation in urinary excretion of metabolites of phenolic acids after consumption of coffee  
*Gary Williamson*
- 11:40 Acute intake of curcumin differently affects endothelial function and nutrigenomic response in male and female smokers: a randomized controlled trial  
*N Barber-Chamoux*
- 11:55 Inter-individual variability in response to the intake of flavonols on blood lipid levels: a meta-analysis of randomized controlled human trials  
*Paula Pinto*
- 12:10 Effect of a Functional Fruit Concentrate on post-prandial glycaemic response in pre-diabetes and type 2 diabetes patients: exploring the inter-individual variation  
*Teresa Serra*
- 12:25 Inter-individual variability in the combined production of metabolites from green tea flavan-3-ols and coffee chlorogenic acids  
*Pedro Mena*
- 12:40 Closing ceremony  
*Paul Kroon and Christine Morand*
- 12:55 **Buffet lunch and posters**
- 13:50 Conference Ends

