Dear Colleagues and Friends,

Welcome to the 10th International Conference on Polyphenols and Health, we are so pleased to see so many of you after a turbulent few years. We are proud to be hosting this year’s event in central London, face to face to resume and create new relationships, networking and collaboration in our field. The programme is varied with international speakers and includes a wide reach of topics that we hope you will find stimulating and thought provoking.

We have received a fantastic number of abstracts from 19 different countries showing your interest and enthusiasm in presenting your work or discussing your cases with colleagues from around the world. In appreciation of your contribution, we have made our best efforts to make this meeting as interactive and inclusive as possible. We have selected some of these abstracts to be presented verbally during each of the symposia sessions. You will also be able to view all of the submitted posters in our poster area located in The Britten room, our dedicated exhibition and catering area.

We would like to take this opportunity to thank all contributors to the ICPH meeting in London, notably our speakers who have given their valuable time to present their latest work during the sessions and session chairs who will have the delicate task of encouraging the discussions while keeping to the schedule!

ICPH meetings would not be possible without the Scientific Committees and Bioscientifica, our Professional Conference Organiser. We thank them for working hand in hand with us! We also want to thank our sponsors for making this meeting possible.

We hope that you will also be able to find some time to visit the local attractions in London which are on the door step of this fantastic conference venue.

Thank you once again for joining us and we look forward to seeing you at the next ICPH meeting.

Jeremy P. E. Spencer – University of Reading
Gunter G. C. Kuhnle – University of Reading
With thanks to

Our Organising Committee

Christian Heiss – University of Surrey
Claire Williams – University of Reading
Ana Rodriguez-Mateos – King’s College London
Catarina Rendeiro – University of Birmingham
David Vauzour – University of East Anglia
Charlotte Mills – University of Reading
Daniel Lamport – University of Reading
Cesar G. Fraga – University of California
Davis Alan Crozier – University of Glasgow
Patricia I. Oteiza - University of California, Davis

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Aedin Cassidy
Yves Desjardins
Andre Marette
Colin Kay
Daniele Del Rio
Pedro Mena
Dragan Milenkovic
Claudia Nunes dos Santos
Javier I Ottaviani

Our abstracts marking panel

Alan Crozier
Ana Rodriguez-Mateos
Charlotte Mills
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Food & Function

SHIMADZU
Excellence in Science

activ inside
Science inside, claims outside

SILVA TEAM
17:15 - 17:30 Welcome

ICPH Co-President, Jeremy Spencer (UK)

17:30 - 18:00 Plenary 1

Antioxidants in the human diet; polyphenols, vitamins and ergothioneine
Barry Halliwell (Singapore)

Chairs: Jeremy Spencer (University of Reading, UK) & Cesar G. Fraga (University of Buenos Aires, Argentina)

18:00 - 18:30 Plenary 2

What progress in understanding the interindividual variability in response to polyphenols
Christine Morand (France)

Chairs: Jeremy Spencer (University of Reading, UK) & Cesar G. Fraga (University of Buenos Aires, Argentina)

18:30 - 19:30 Welcome Reception
09:00 - 09:30  Plenary 3 & 4  Effect of Cocoa Flavanol Supplementation for Prevention of Cardiovascular Disease Events: The COocoa Supplement and Multivitamin Outcomes Study (COSMOS)
Jo E. Mason (USA)
Howard D Sesso (USA)

Chairs: Helmut Sies (Heinrich-Heine-Universität Düsseldorf, Germany) & Aedin Cassidy (Queen’s University Belfast, UK)

09:30 - 10:00  Plenary 5  Title TBC
Scott Small (Columbia University, USA)

10:00 - 10:45  Roundtable discussion  After COSMOS – Where next?
Chairs: Helmut Sies (Heinrich-Heine-Universität Düsseldorf, Germany) & Aedin Cassidy (Queen’s University Belfast, UK)

Jo E. Mason (USA)
Howard D Sesso (USA)
Helmut Sies (Germany)
Aedin Cassidy (UK)
Scott Small (USA)

10:45 - 11:15  Coffee, Exhibition and Posters

11:15 - 12:50  Epidemiology  Epidemiological insights into how we can harness the potential of dietary flavonoids in the prevention of chronic disease
Nicola Bondonno (Australia)
11:15 - 12:50  Epidemiology

Polyphenol exposure and body weight change: epidemiological evidence
Raul Zamora Ros (Spain)

Associations between dietary intake of total, classes, and subclasses of polyphenols and all-cause mortality in the Mexican Teachers' Cohort.
Jazmin Castañeda-Moreno (Spain)

Chairs: Gunter Kuhnle (University of Reading, UK) & Nicola Bondonno (University of Western Australia, Australia)

12:50 - 14:20  Lunch, Exhibitions and Posters

14:20 - 15:55  Cardiometabolic diseases & mechanism (St James)

Potential roles of polyphenols in clinical cardiovascular medicine. What are we waiting for?
Christian Heiss (UK)

Efficacy and Mechanisms of Blueberry (Poly)phenols on Cardiovascular Health
Sarah Ardanuy Johnson (USA)

Polyphenol and neutraceutical interventions for peripheral artery disease
Mary M. McDermott (USA)
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<tr>
<th>Time</th>
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| 14:20 - 15:55 | **Cardiometabolic diseases & mechanism**    | Interindividual variability in response to aronia berry (poly)phenol consumption in middle-aged men and women: Multi-omic exploration of the relationships between vascular response, metabolome and gut microbiome  
*Melanie Le Sayec (UK)* |
|            | **Bioavailability, absorption and metabolism** | Polyphenol enriched tomatoes protect against atherosclerotic plaque development in ApoE-/ mice through the modification of cholesterol efflux and inflammation  
*Priscilla Day-Walsh (UK)* |
|            |                                              | Chairs: Charlotte Mills (University of Reading, UK) & Rosa Lamuela Raventos (University of Barcelona, Spain) |
| 14:20 - 15:55 |                                              | **Biotransforming resveratrol and what it means**                                                      |
|            |                                              | *Sabine E Kullina (Germany)*                                                                        |
|            |                                              | Impact of the gut microbiome on polyphenol metabolism and host metabolic processes  
*Colin Kay (USA)* |
|            |                                              | Identification of polyphenolic metabolites by mass spectrometry - challenges and solutions  
*Nicolai Kuhnert (Germany)* |
14:20 - 15:55  Bioavailability, absorption and metabolism (Churchill)

Circulating (poly)phenol metabolites blood-brain barrier transport and brain availability
Inês Figueira (Portugal)

Flavanol metabolite 5-(3',4'-dihydroxyphenyl)-γ-valerolactone is a substrate for human paraoxonase in vivo: a novel flavanol metabolism pathway
Javier Ottaviani (USA)

Chairs: Pedro Mena (University of Parma, Italy) & Giulia Corona (University of Roehamptoon, UK)

15:55 - 16:15  Coffee, Exhibition and Posters

16:15 - 17:50  Mode of action (St James)

Neuroprotective potential of epicatechin in dementia
Robert Williams (UK)

Cellular senescence: the potential missing link to explain the anticancer activity of dietary polyphenols against breast cancer
Antonio Gonzalez-Sarrias (Spain)

Pterostilbene modulates oxidative stress and lifespan in Drosophila melanogaster
Cristina Angeloni (Italy)
16:15 - 17:50  **Mode of action**  
(St James)

**Ferulic acid metabolites attenuate LPS-induced inflammatory response in enterocyte-like cells: insight into the mechanism of action**  
Gabriele Serrelli (Italy)

**Cranberry proanthocyanidin and its microbial metabolite 5-(3',4'-dihydroxyphenyl)-γ-valerolactone modulate intestinal epithelial function and differentiation in mouse intestinal organoids**  
Briscia Anaid Tinoco-Mar (Canada)

*Chairs: Wim van der Berghe (University Antwerp, Belgium) & Patricia Oteiza (University of California, Davis, USA)*

16:15 - 17:50  **Analytical Workshop**  
(Churchill)

**Pterostilbene modulates oxidative stress and lifespan in Drosophila melanogaster**  
Cristina Angeloni (Italy)  
Javier Ottaviani (USA)  
Cristina Andres-Lacueva (Spain)  
Claudine Manach (France)  
Alan Crozier (UK)

*Chairs: Ana Rodriguez-Mateos (King's College London, UK) & Gunter Kuhnle (University of Reading, UK)*

17:50 - 18:35  **Poster Tours**  
(Pickwick)
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<tr>
<td>09:00 - 09:30</td>
<td>Plenary 6</td>
<td>Polyphenol rich foods and the gut microbiome – partners in chyme!- Implications for metabolic disease risk</td>
<td>Kieran Tuohy (UK)</td>
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<tr>
<td>09:30 - 10:00</td>
<td>Plenary 7</td>
<td>Associations of flavonoid intake with brain structure and function in healthy individuals, obtained by multimodal brain imaging.</td>
<td>Emeran Mayer (USA)</td>
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<td>10:00 - 11:35</td>
<td>Gut (Microbiome)</td>
<td>Characterisation of (poly)phenol metabotypes and associated gut microbial signatures: does it matter for health?</td>
<td>Ana Rodriguez-Mateos (UK)</td>
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<td>The (poly)phenol/gut microbiota conundrum: Towards new insights on their mode of action.</td>
<td>Yves Desjardins (Canada)</td>
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<td>Human and in vitro studies of gut microbial metabolism of anthocyanins reveals novel metabolites and transformation pathways</td>
<td>Paul Kroon (UK)</td>
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<td>Upper gastrointestinal digestion is required for coffee and cocoa beverages to inhibit trimethylamine formation by gut microbiota</td>
<td>Lisard Iglesias-Carres (USA)</td>
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<td></td>
<td>Transformation of flavonoids by human gut microbiota – from in silico analyses to experimental confirmation</td>
<td>Tobias Goris (Germany)</td>
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</table>
10:00 - 11:35  Gut (Microbiome)  Transformation of flavonoids by human gut microbiota – from in silico analyses to experimental confirmation  
*Tobias Goris* (Germany)

Chairs: *Daniele del Rio* (Università di Parma, Italy) & *Kieran Tuohy* (University of Leeds, UK)

11:35 - 11:50  Coffee, Exhibition and Posters

11:50 - 13:25  Brain and Cognition  

**Brain and Cognition Symposium 7.1**
*Catarina Rendeiro* (UK)

'Flavonoid Android? Beyond behavioural testing in understanding polyphenol effects on human neurocognitive processes  
*Andrew Scholey* (Australia)

**Brain and Cognition Symposium 7.3**
*Louise Dye* (UK)

The acute effects of wild blueberries on mood and cognition in healthy young adults  
*Martin Velichkov* (UK)

Daily mango (*Mangifera indica L.*) consumption supplemented with probiotics differentially modulates inflammation and cognitive function in lean and obese individuals  
*Susanne Mertens-Talcott* (USA)

Chairs: *Claire Williams* (University of Reading, UK) & *David Vauzour* (University of East Anglia, UK)
13:25 - 14:30  Lunch, Exhibition and Posters

14:30 - 16:00  The Gut-Brain Axis

Sponsored by Food and Function

Epicatechin mitigates high fat diet-induced altered behaviour in mince: role of the gut-brain axis
Elenora Cremonini (USA)

Insights into molecular mechanisms of brain protection by the gut (poly)phenol metabolites
Claudia Nunes Santos (Portugal)

Impact of cranberry polyphenols on the gut-brain axis
David Vauzour (UK)

Therapeutic Targeting of the Microbiota-Gut-Brain Axis:
Implications for Brain Function and Behaviour
Gerard Clarke (Ireland)

Chair: Christine Morand (Université Clermont-Auvergne, France)

16:00 - 17:30  Early Career Session

Bioavailability of green coffee phenols in overweight humans after acute and chronic consumption alone or in combination with oat beta-glucans
Miguel A. Seguido (Spain)
16:00 - 17:30 Early Career Session

A randomized, double-blind, placebo-controlled study of the effect of daily cranberry juice supplementation for 42 days on the gut microbiome and inflammatory markers in overweight/obese adults.

Susanne Talcott (USA)

Biotransformation of camu camu galloylated ellagitannins by Lactiplantibacillus plantarum with extracellular tannase activity

Elena C. Pulido-Mateos (Canada)

Performance of urinary phenyl-γ-valerolactones as intake biomarkers of dietary flavan-3-ols: preliminary findings from two companion studies

Nicola Bondonno (Australia)

Chairs: Jeremy Spencer (University of Reading, UK) & Cristina Angeloni (University of Camerino, Italy)

17:30 - 18:15 Poster tours
09:00 - 09:30  Plenary 8  Health and Nutrition Beyond Essential Nutrients: The evolution of the bioactives concept in human health and nutrition  
John Erdman (USA)

09.30 - 10.30  Roundtable  What next? From Bench to Table – is it time to recommend polyphenols?  
John Erdman (USA)  
Sumantra Ray (University of Cambridge, UK)  
Aedin Cassidy (Queen's University Belfast, UK)

10:30 - 11:00  Closing Remarks & Awards Presentation
## Posters

Over 120 posters on a variety of topics will be on display throughout the Conference in the Exhibition Hall. All poster titles are listed on pages 16-28.

Each poster has a unique Poster Code (P1, P2 and so on), allowing you to easily find the corresponding abstract in our online Abstract Book.

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<tr>
<td>Other</td>
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Posters should be displayed by 15:30 on Wednesday 20 April, and removed by 11:30 on Saturday 23 April. Please note that any posters remaining after this time will be taken down and disposed of.

## Poster Tours

We are also excited to be running guided poster tours at ICPH 2022 for the first time. All posters on display will feature in a guided poster tour, allowing authors to present their work and encourage discussion and networking. Poster tours will take place during the dedicated poster sessions on Thursday 21 and Friday 22 April:
Thursday 21 April: 17:50 – 18:35 BST
Friday 22 April: 17:30 – 18:15 BST

Each tour will be led by a Chair, and multiple tours will run at once, each starting at the first poster number listed below.

Each poster presenter should stand at their poster at their allotted time, ready to present their work. Each presenter has been allotted a total of 3 minutes, including a short Q&A with the Chair and other tour attendees.

**THURSDAY 21 APRIL 2022, 17:50 - 18:35**

| Poster Tour 1: Analytical sciences - measurement of polyphenols A | P1 - P11 |
| Poster Tour 2: Bioavailability, absorption and metabolism A | P23 - P34 |
| Poster Tour 3: Brain and cognition | P47 - P55 |
| Poster Tour 4: Cardiovascular disease | P56 - P74 |
| Poster Tour 5: Epidemiology and Infectious Diseases | P87 - P92 |
| Poster Tour 6: Mechanisms in action | P104 - P111 |
| Poster Tour 7: Other A | P112 - P118 |

**FRIDAY 22 APRIL 2022, 17:30 - 18:15**

| Poster Tour 8: Analytical sciences - measurement of polyphenols B | P12 - P22 |
| Poster Tour 9: Bioavailability, absorption and metabolism B | P35 - P46 |
| Poster Tour 10: Cancer | P56 - P64 |
| Poster Tour 11: Clinical trials | P75 - P86 |
| Poster Tour 12: Gut microbiota | P93 - P103 |
| Poster Tour 13: Other B | P119 - P125 |
Analytical sciences - measurement of polyphenols

P1 Fast and accurate quantification of proanthocyanidins metabolites by combining enzymatic hydrolysis and high-throughput mass spectrometry
Jacob Lessard-Lord (Canada)

P2 Development of a (poly)phenol-rich diet score and relationships with urine and plasma phenolic metabolites
Yifan Xu (UK)

P3 Examining the world of legumes' phenolic composition
Maria Rosário Bronze (Portugal)

P4 Extraction of phenolic compounds to apply as antifungal agents against vineyard pathogens
Sandrina A. Heleno (Portugal)

P5 Apple polyphenols exert anti-diabetic activities in vitro
H.P. Vasantha Rupasinghe (Canada)

P6 ABSTRACT WITHDRAWN

P7 Assessing the bioactive profile of new Ecuadorian fine-flavour cocoa cultivars Raquel Rodriguez-Solana (Spain)

P8 In vitro digested olive pomace as a source of bioactive compounds.
Daniela Beghelli (Italy)

P9 A robust UHPLC-MS approach for the simultaneous detection of polar phenols in rat brain tissue after consuming a Mediterranean food
Paraskevi B. Vasilakopoulou (Greece)

P10 Analytical performance of a method for the measurement of flavan-3-ol intake biomarkers in a dietary intervention study
Amy Leaney (UK)

P11 Antioxidant activity of eight varieties of Camelia japonica flowers
Antia G. Pereira (Spain)
P12 Developing cocoa flavanol and procyanidins analytics, from reference material development to method accreditation and modeling of historical method bias.  
*Ugo Bussy (USA)*

P13 Obtaining high valuable bioactive compounds from natural matrices  
*Lillian Barros (Portugal)*

P14 Applying Response Surface Methodology to Phenolic Compounds from Arbutus unedo: Case Studies with Ultrasound and Dynamic Maceration Extraction  
*Marcio Carocho (Portugal)*

P15 Effect of boiling on polyphenol contents in Japanese root vegetables.  
*Satoko Akiyama (Japan)*

P16 Polyphenols from mandarin (Citrus reticulata) peels – a unique combination of phenolic acids and flavonoids including rare polymethoxylated flavones.  
*Meryem Benohoud (UK)*

P17 Levels of polyphenol content in Purslane  
*Boris Nemzer (USA)*

P18 Assessment of the differences in the phenolic content, antioxidant capacity and enzyme inhibition of monovarietal fig liqueurs elaborated with fruits and leaves  
*Raquel Rodríguez-Solana (Spain)*

P19 Identification and quantification of apple pomace’s polyphenols and their analysis using FTIR spectroscopy  
*Neda Ahmadiani (Spain)*

P20 Corinthian raisins polar phenol content as affected by baking  
*Paraskevi B. Vasilakopoulou (Greece)*

P21 Effect of bioprocessing and storage on the isoflavones profile and sensory attributes of soybean meal biscuits  
*Daniel Perrone (Brazil)*

P22 Polyphenol Content, Antioxidant Activity, and Enzyme Inhibitory Activities of Some Coffee Cherry Extracts  
*Boris Nemzer (USA)*
Bioavailability, absorption and metabolism

P23 Identification of aggregate metabolic phenotypes for dietary (poly)phenols and assessment of the factors associated with their formation: development of an oral (poly)phenol challenge test (OPCT)
Pedro Mena (Spain)

P24 Challenges in metabolite identification by mass spectrometry
Nikolai Kuhnert (Germany)

P25 Last updates of the PhytoHub database for better knowledge about food phytochemicals
Mariem Achour (France)

P26 Cocoa (poly)phenolic catabolism study using an ex vivo digestion model.
Chris IR Gill (UK)

P27 Trans-ε-viniferin metabolism: from evidence to its strong in vivo glucuronidation after oral administration on rat; to the measurement of its glucuronides anti-inflammatory properties
Pauline Beaumont (France)

P28 Study of the bioaccessibility of phenolic compounds from olive oil using the SHIME® procedure: An in vitro study of the digestion process throughout the gastrointestinal tract
Maria Rosário Bronze (Portugal)

P29 Influence of the flavan-3-ol structure on the production of phenolic metabolites after consumption of different flavan-3-ol sources by healthy subjects
Nicole Tosi (Italy)

P30 Does metformin affect polyphenol metabolic fate? A supplementation study with a cocoa-carob blend in Zucker diabetic rats.
Esther García-Díez (Spain)

P31 Cherry consumption in season decreases the proportion of saturated fatty acids in the liver and increases them in the muscle.
Maria Josefina Ruiz de Azua (Spain)

P32 Mango (Mangifera indica L.) carotenoids: Comparison of in Vivo and in Vitro Studies
Jose Manuel Moreno-Rojas (Spain)
P33 Bioavailability of mango polyphenols in subjects with and without a colon.  
Jose Manuel Moreno-Rojas (Spain)

P34 Separation of isomeric forms of urolithin conjugates using supercritical fluid chromatography: a possible step to improve urolithin metabotype assignment? Rocio Garcia Villalba (Spain)

P35 Interindividual variation in the metabolism of cocoa flavan-3-ols explored with untargeted metabolomics  
Mariem Achour (France)

P36 In vitro faecal fermentation of monomeric and oligomeric flavan-3-ols: Catabolic pathways and stoichiometry  
Letizia Bresciani (Italy)

P37 Oral and gastrointestinal bioaccessibility of anthocyanins in fresh, frozen, and blended blueberries using the INFOGEST protocol  
Zicheng Zhang (UK)

P38 Sulfated silymarin flavonolignans: identification as human metabolites and properties  
Kateřina Valentová (Czech Republic)

P39 Analytical approach for a more accurate quantitation of oleuropein metabolites after ingestion of olive leaf extracts: application to a pilot pharmacokinetic study in humans  
Rocio Garcia Villalba (Spain)

P40 Dietary polyglycosylated anthocyanins, the smart option? Towards their stability and bioavailability  
Hélder Oliveira (Portugal)

P41 The link between microbial composition and phenyl-y-valerolactone metabolite production in young healthy males following acute pure (-)-epicatechin supplementation.  
Jan Stautemas (Belgium)

P42 Metabotypes of flavan-3-ol colonic metabolites after cranberry intake: elucidation and statistical approaches  
Claudia Favari (Italy)
Poster Titles

P43 Seasonal dependent effects of Grape Seed Proanthocyanidin Extract (GSPE) on hepatic metabolism of healthy F344 rats
Romina M. Rodríguez (Spain)

P44 Quercetin ingested by maternal mice may be transferred to newborn mice via breast milk
Akari Ishisaka (Japan)

P45 Differential bioavailability of tomato (poly)phenols from distinct geographic origins: local vs. non-local
Manuel Suarez (Italy)

P46 The effect of chitosan on the bioaccessibility of anthocyanins from jussara (Euterpe edulis Martius) pulp alginate beads
Mariana Monteiro (Brazil)

Brain and cognition

P47 Long term supplementation with anthocyanin-rich or -poor Rubus idaeus berries does not influence microvascular architecture nor cognitive outcome in the APP/PS-1 mouse model of Alzheimer’s disease.
Chris I.R. Gill (UK)

P48 The association between (poly)phenols and mood in healthy adults: evidence from dietary assessment and biomarkers
Xuemei Ma (UK)

P49 Gut microbiota derived low molecular weight (poly)phenol metabolites attenuate microglia inflammatory response
Diogo Carregosa (Portugal)

Julia Casani-Cubel (UK)

P51 Neuroprotective effects of circulating (poly)phenol metabolites in MPP(+) stimulated dopaminergic neurons
Rafael Carecho (Portugal)

P52 Blueberry polyphenols activity on microglial cells
Rita Businaro (Italy)
Poster Titles

**P53** Potential neuroprotective effect of spent coffee grounds extracts against neurodegeneration.
*Michela Freschi (Italy)*

**P54** The Impact of Coffee-Derived Chlorogenic Acid on Cognition – A Systematic Review and Meta-Analysis
*Karen Johal (UK)*

**P55** Effects of resveratrol supplementation on cognitive function, cerebral blood flow and gastrointestinal microbiota in healthy, overweight adults.
*Ellen Smith (UK)*

**Cancer**

**P56** Polyphenol curcumin targets colorectal cancer stem cells (Nanog+) in human colorectal tissues
*Sam Khan (UK)*

**P57** Antiproliferative, antiangiogenic, and antimetastatic therapy response by mangiferin in a syngeneic immunocompetent colorectal cancer mouse model involves changes in mitochondrial energy metabolism
*Wim Vanden Berghe (Belgium)*

**P58** (-)-Epigallocatechin-3-gallate (EGCG) attenuates cyclophosphamide-induced gut injury in mice, by modulating inflammation, the tight junctions, and dysbiosis
*Gerardo Mackenzie (USA)*

**P59** MANGO KERNEL EXTRACT INDUCES OXIDATIVE-STRESS-MEDIATED REACTIVE GLIOSIS AND APOPTOSIS IN GLIOMA CELLS
*Rodrigo Oliver-Simancas (Spain)*

**P60** Anthocyanin-rich haskap berry: a dietary source for cancer prevention
*H.P. Vasantha Rupasinghe (Canada)*

**P61** Marine polyphenol thalassiolin B extract of thalassia testudinum arrests colorectal tumor growth, motility and angiogenesis by autophagic stress and immunogenic cell death pathways
*Wim Vanden Berghe (Belgium)*

**P62** Combining advanced 3D cell models with omics methodologies to unveil the protective role of phenolic metabolites towards colorectal cancer
*Ana Teresa Serra (Portugal)*
**Poster Titles**

**P63** Isorhamnetin Inhibits Pancreatic Cancer-Associated Fibroblasts Growth  
*Munkhzul Ganbold (Japan)*

**P64** Resveratrol effects on the gut microbiome of BRAFV600E/+ mice fed a high fat diet  
*Despoina Theofanous (UK)*

**Cardiovascular disease**

**P65** Coffee chlorogenic acids for cardioprotection: sub-analysis of a systematic review  
*Ashley Hookings (UK)*

**P66** Can plant-flavanols protect human vascular function from mental stress in a black male population?  
*Rosalind Baynham (UK)*

**P67** Hibiscus Sabdariffa lowers blood pressure and positively impacts cardiovascular disease risk factors: a systematic review and meta-analysis  
*Lucy Ellis (UK)*

**P68** (Poly)phenol intake, plant-rich dietary patterns and cardiometabolic health: a cross-sectional study  
*Yong Li (UK)*

**P69** Oregonin from Alnus incana preserves from atherosclerosis by preventing endothelial dysfunction through nutrigenomic and epigenetic regulations  
*Laurent-Emmanuel Monfoulet (France)*

**P70** Wine pomace product attenuates intestinal oxidative stress in obese rats  
*Mónica Cavia-Salz (Spain)*

**P71** Cocoa flavanol intervention improves lower extremity endothelial function in healthy individuals and people with type 2 diabetes (T2D)  
*Mariam Bapir (UK)*

**P72** Assessing variability in vascular response to cocoa flavanols using n-of-1-trials and personal devices  
*Mariam Bapir (UK)*

**P73** (−)-Epicatechin (EC) attenuated high fructose (HF)-induced modifications in perivascular adipose tissue (PVAT) in rats  
*Monica Galleano (Argentina)*
P74 (-)-Epicatechin (EC) prevents claudin-2 modifications induced by high-fat (HF) diet in kidney mice.

Monica Galleano (Argentina)

Clinical trials

P75 ABSTRACT WITHDRAWN

P76 CurrantCraft® blackcurrant extract promotes visual health: A randomized, double blinded, placebo controlled clinical trial

Jessie Hawkins (USA)

P77 Polyphenol supplementation inhibits angiogenesis in adipose tissue during an experimental overfeeding in healthy volunteers.

Pauline Delage (France)

P78 Effects of a polyphenol-rich dietary supplement on anthropometric, biochemical, and inflammatory parameters in participants with morbid obesity: study protocol for a randomised, controlled trial.

Mercedes Gil-Lespinard (Spain)

P79 Mental health in new parents: A randomised control trial investigating dietary flavonoid intake and mental health in the postnatal period

Rebecca Colombage (UK)

P80 Acute and long-term effects on satiety and appetite of a green coffee phenolic extract alone or combination with oat beta-glucan in subjects with overweight and obesity

Miguel A. Seguido (Spain)

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