

18TH WORLD
CONGRESS


Polyphenols
APPLICATIONS

Polyphenols Applications

 OCTOBER 2-3, 2025
MALTA

Agenda

Day 1 – October 2, 2025

8h00 **Welcoming of Attendees – Registration**



8h50 **Introduction of Polyphenols Applications 2025**

Andreas Schieber, Vice President of Polyphenols Applications, University of Bonn, Germany

Keynote Speech – Day 1



9h00 **The Beautiful Complexity of Dietary Polyphenols: Our tools for Addressing Challenges across Food, Nutrition & Health Domains**

Mario Ferruzzi, College of Agriculture and Life Sciences at Virginia Tech, USA

Session 1: Polyphenols, Microbiota & Metabolites: Advances & Perspectives

Chairs: Laura Bravo, Mario Ferruzzi



9h30 **Chemical Metabolomics – Unique Chemical Biology Tools to Explore Gut Microbiome and Dietary Metabolism**

Daniel Globisch, Uppsala University, Sweden



9h55 **Role of Circulating Phenolic Metabolites Crossing the Blood-Brain Barrier from Mediterranean Foods Against Neurodegenerative Diseases**

Antonio González-Sarrias, CEBAS-CSIC, Spain

10h20 - Coffee Break, Poster Session & Networking



11h15 **Polyphenols and Gut Bitter Taste Receptors: Modulating GI Hormone Release**

Vittorio Calabrese, University of Catania, Italy

Session 2: Polyphenols in Action: Clinical Applications 2025

Chairs: Marvin Edeas, Sonia de Pascual-Teresa



11h40 **Polyphenols in Cardiometabolic Health: Insights from Clinical Trials**

Laura Bravo, ICTAN-CSIC, Spain



12h05 **Usefulness of Different Flavonoids in Clinical Practice**

Wojciech Dabrowski, Medical University of Lublin, Poland

12h30 - Lunch Break, Poster Session & Networking



14h00 **Polyphenols Application in Kidney Disease Patients**

Andrzej Jaroszyński, Jan Kochanowski University in Kielce, Poland



14h25 **Polyphenols and Inflammation: Recent Advances and Perspectives**

Claus Schneider, Vanderbilt University, USA

14h50 **Short Oral Presentations (8 + 2 min) – 4 Slots**

Therapeutic Potential of Xanthohumol in Crohn's Disease through Modulation of Microbial Bile Acid Metabolism
Paige Elizabeth Jamieson, Oregon State University, USA

Characterisation of Isoflavone Hydrolases in *Furfurilactobacillus mii*
Michael Gänzle, University of Alberta, Canada

Comprehensive UHPLC-QT of Analysis of the Beneficial Effects of a Phenolic-Rich Food: Evidence from a Dietary Intervention in Mouse Model
Claudia Mardones, University of Concepcion, Chile

15h30 - Coffee Break, Poster Session & Networking
Chairs: Elke Richling, Wojciech Dabrowski



16h15 **Polyphenols for Management of Attention Deficit Hyperactivity Disorder (ADHD): Recent Advances in Clinical Research**
Nina Hermans, University of Antwerp, Belgium

16h40 **Short Oral Presentations (8 + 2 min)**

Oxidative Transformation of Urolithin-A: A New Player in Modulating the Inflammatory Response
Juan Antonio Giménez-Bastida, Food Science and Technology Dep., CEBAS-CSIC, Spain

Biosynthesis of Elemicin and Isoelemicin in *Daucus Carota* Leaves
Mwafaq Ibdah, Newe Yaar Research Center, Agricultural Research Organization, Israel

Optimizing Antioxidant Synergy: Role of Ionization and Localization in Polyphenol-Tocopherol Mixtures
Grzegorz Litwinienko, University of Warsaw, Poland

The Effects of Dietary Micro-Vegetable Supplementation in Older Adults with Overweight or Obesity: A Double-Blind, Placebo-Controlled Randomised Controlled Trial
Cealan Henry, University of Exeter, United Kingdom

Dietary Polyphenols Improve Atherosclerotic Plaque Stability in At-Risk Individuals: Evidence from PET/CT Imaging
Abdel Ouahed Khalil, University of Sherbrooke, Canada

Cannabinoid-Free Cannabis Sativa L. (Chemotype V) as A Polyphenol-Rich Source with Antioxidant and Anti-Inflammatory Activities
Vincenzo Disca, University of Piemonte Orientale, Italy

Polyphenol-Enriched Functional Feed: Effects on Growth, Muscle Lipids, and Meat Quality in Finishing Pigs
Maria Chiara Di Meo, University of Sannio, Italy

17h50 **End of Polyphenols Applications Day 1**

20h00 **Polyphenols Applications 2025 Dinner (for ticket holders only)**

Day 2 – October 3, 2025

8h00 Welcoming of Attendees – Registration

Keynote Speech – Day 2



9h00 **The Preventive Power of Plant Polyphenols: Scientific Advances from Fruits and Vegetables**
Bhimu Patil, Texas A&M University, USA

Session 3: Reactions of Polyphenols: Recent Progress in Chemical and Enzymatic Conversions

Chairs: Julia Keppler, Andreas Schieber



9h30 **Reactions of Polyphenols: Progress and Prospects in Research and Applications**
Andreas Schieber, University of Bonn, Germany



9h55 **Polyphenol-Protein Reactions and their Applications in Food Technology**
Julia Keppler, Wageningen University and Research, The Netherlands

10h20 - Coffee Break, Poster Session & Networking



11h00 **Tannins 2025: Advancing Structural Analysis, Chemical Modifications, Bioactivity Profiling and Applications**
Marica Engström, University of Turku, Finland



11h25 **The Chemistry behind Sunflower Greening**
Lilian Senger, Chapman University, USA

11h50 **Short Oral Presentations (8 + 2 min)**

“From Cocoa Bean to Bar”: Quantification of Polyphenols and Assessment of Influence of Starter Cultures
Emmy Tuenter, Universiteit Antwerpen, Belgium

**Novel Insights into Microbial Lignin Degradation and the Involvement of Redox Enzymes:
From the Molecular Scale to Improved Processes**
Giuliano Sciara, INRAE, French National Research Institute for Agriculture, Food and Environment, France

The Effects of Cranberry Extract, Hyperoside, and Procyanidin A2 on the Luminal and Mucosal Gut Microbiota and its Metabolites
Maria Wiese, TNO, The Netherlands

Unripe Grape Seeds Polyphenols Exert Exercise Mimetics Activities on Human Skeletal Muscle Cells
Karen Lambert, PhyMedEXp, France

12h30 Lunch Break & Poster Session

Session 4: Innovations and Future Perspectives in Polyphenol Research

Chairs: Michael Gänzle, Bhimu Patil



14h00 **Polyphenol-Rich Foods as a Healthy and Sustainable Strategy for Healthy Aging**
Sonia de Pascual-Teresa, ICTAN-CSIC, Spain

14h25 **Short Oral Presentations & Pitch on Polyphenols Innovations (8 + 2 min)**

Short-Term Effects and Metabolic Changes Caused by Acceleration Exercise Combined with Polyphenol-Rich Arctic Lingonberry in Healthy Volunteers

Tiina Emilia Kähkönen, Oncobone Ltd, Finland

Phenolic Profile and Bioactive Potential of Grape Stems from Douro Red Varieties: A Sustainable Approach for Cosmetic Applications

Ana Novo Barros, CITAB, Inov4Agro, UTAD, Portugal

Stabilization of Anthocyanins Using Prebiotic-Based Carriers: A Strategy for Functional and Microbiota-Friendly Delivery

Anna Gościński, Poznan University of Medical Sciences, Poznan, Poland

15h15 **Concluding Remarks** by Marvin Edeas, Andreas Schieber

15h30 **Awards 2025**

15h45 *Networking Accompanied by Drinks, Coffee and Snacks*

