

**18<sup>TH</sup>** WORLD  
CONGRESS



# Polyphenols Applications

 **OCTOBER 2-3, 2025**  
**MALTA**

## **Agenda**

# 18<sup>th</sup> World Congress on Polyphenols Applications

October 2-3 | Corinthia Palace Malta

Day 1 – October 2, 2025

8h00 **Welcoming of Attendees – Registration**



8h50 **Introduction of Polyphenols Applications 2025**

**Jan Frederik Stevens**, President of Polyphenols Applications, Oregon State University, USA

## 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



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



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 **Curcumin as a Pro-Drug**

**Claus Schneider**, Vanderbilt University, USA

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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

**Comprehensive UHPLC-QT of Analysis of the Beneficial Effects of a Phenolic-Rich Food: Evidence from a Dietary Intervention in Mouse Model**

**Claudia Mardones**, Pharmacy Faculty, University of Concepcion, Chile

*15h30 - Coffee Break, Poster Session & Networking*



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) – 5 slots**

**Oxidative Transformation of Urolithin-A: A New Player in Modulating the Inflammatory Response**

**Juan Antonio Giménez-Bastida**, Food Science and Technology Dep., CEBAS-CSIC, Murcia, 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

17h30 **End of Polyphenols Applications Day 1**

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





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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



9h30 **Reactions of Polyphenols: Evolutions 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) – 4 Slots**

**“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, Aix Marseille University, France*

12h30 Lunch Break & Poster Session

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## Session 4: Innovations and Future Perspectives in Polyphenol Research



13h30 **Polyphenol-Rich Foods as a Healthy and Sustainable Strategy for Healthy Aging**  
*Sonia de Pascual-Teresa, ICTAN-CSIC, Spain*



13h55 **Encapsulation of Flavonoids: A Strategy for Enhanced Efficacy**  
*Glaucia Maria Pastore, Campinas University (UNICAMP), Brazil*

14h20 **Call for Innovations**

**Short Oral Presentations & Pitch on Polyphenols Innovations (8 + 2 min) – 7 slots**

**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*

15h30 **Concluding Remarks**

15h45 **Awards 2025**

16h00 End of Polyphenols Applications

16h00 *Networking Accompanied by Drinks, Coffee and Snacks*

