

19TH

WORLD
CONGRESS



Polyphenols
APPLICATIONS

Polyphenols Applications

OCTOBER 8–9, 2026
MÁLAGA, SPAIN

AGENDA



19th World Congress on Polyphenols Applications 2026

October 8 - 9, 2026 – Málaga, Spain

Polyphenols Applications 2026 Aims

Polyphenols Applications 2026 is built around a clear strategic vision: positioning polyphenols as key agents in disease prevention, healthy aging, and sustainable nutrition systems.

Advancing Nutrition, Health and Sustainability through Polyphenol Research and Innovation

We are pleased to welcome you to Polyphenols Applications 2026, on October 8-9, 2026 in Malaga, Spain, dedicated to exploring the role of polyphenols in health, longevity, nutrition, and sustainable innovation.

Day One will focus on prevention and healthy aging, highlighting the role of polyphenols in cardiovascular, metabolic, and neurodegenerative health, as well as the importance of microbiome–fiber–polyphenol interactions. A round table discussion will address processed food, obesity, and modern dietary patterns.

Day Two will be dedicated to applications and innovation, including polyphenols in animal health and agriculture, advances in polyphenol chemistry and formulation, and new ingredients and industrial applications.

This edition emphasizes the translation of mechanistic insight into practical strategies that can impact human and animal health, food systems and sustainable applications. Polyphenols Applications 2026 aims to strengthen dialogue between science, nutrition, agriculture, and industry, and to advance the translation of polyphenol research into real-world solutions.

Thank you for being with us.

Warm regards,

On behalf of the Scientific Committee



Andreas Schieber

Chairman of Scientific Committee
Polyphenols Applications 2026

Day 1 – October 8, 2026

FROM HUMAN HEALTH TO MECHANISMS

A progression from healthy aging and metabolic health to polyphenol metabolism, microbiome interactions and satiety.

8h00 Welcoming of attendees & Badge Distribution

8h55 **Welcome Introduction**



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

Session 1 – Polyphenols, Healthy Aging & Metabolic Health



9h00 **Rethinking Polyphenols and Their Metabolites: Is Mitochondrial Competence the Missing Link?**
Marvin Edeas, Université Paris Cité, France



9h25 **Dietary Polyphenols as Geroprotective Compounds: From Nutrition to Healthy Aging**
Sergio Davinelly, University of Molise, Italy



9h50 **Can Polyphenols Delay Diabetic Complications? Pterostilbene as a Translational Model in Retinal Health**
Angel Ortega, Universitat de València, Spain

10h15 Coffee Break, Networking and Poster Sessions



11h00 **Can Xanthohumol Protect the Brain? From Neuroinflammation and Critical Illness to Cognitive Decline**
Wojciech Dabrowski, Medical University of Lublin, Poland

11h25 Short Oral Presentations (10 Minutes)

Combining Polyphenols and Lactobacillus - A New Clinical Application to Help Men with Prostate Cancer - A Randomised, Double-Blind Placebo-Controlled Trial
Robert Thomas, Cambridge University Hospitals, United Kingdom

Circulating Urolithin A Metabolites Attenuate Neuroinflammation in Vitro and LPS-Induced Acute Neuroinflammation and Behavioural Alterations in Sprague–Dawley Rats
Antonio González-Sarrias, CEBAS-CSIC, Spain

From Lemon to the Brain: Tracking Flavanone Metabolites Across the Blood-Brain Barrier
María Ángeles Ávila Gálvez, CEBAS-CSIC, Spain

Intergenerational and sex-specific effects of curcumin on lifespan, gene expression and metabolism in *drosophila melanogaster*
Anika Wagner, Justus Liebig University Giessen, Germany

12h05 Lunch Break, Networking, Group Photo

Session 2 – Polyphenol Characterization, Metabolism & Microbiome



13h45 **Understanding Polyphenol Complexity: Analytical Challenges and Opportunities**
Juha-Pekka Salminen, University of Turku, Finland



14h10 **Metabolic profiling of ¹³C-Labeled rosmarinic acid by LC-MS in an in vitro colon model**
Maike Passon, University of Bonn, Germany



14h35 **Polyphenols, Fibers and Microbial Metabolites: Decoding the Gut Dialogue**
Kieran Tuohy, University of Leeds, United Kingdom



15h00 **Looking Beyond Composition: The Gut Microbiome's Capacity to Metabolize Dietary Polyphenols**
Stephanie Wilson, University of California Davis, USA

15h25 Coffee Break, Networking, Poster Presentation



16h10 **From Polyphenol Metabolism to Precision Nutrition: Advancing Translation to Human Health**
Pedro Mena, University of Parma, Italy

16h35 Short Oral Presentations (10 Minutes)

Marine Polyphenols: Expanding the Chemical and Functional Landscape of Polyphenol Science
Wei Zhang, Flinders University, Australia

Natural Orange Extract (NOE) Supplementation and Its Effects on Gastrointestinal Discomfort and Gut Microbiota in Healthy Adults
Juan Ignacio Cacho Aparicio, Health Tech Bioactives, Spain

Optimising Phenolic Release in Australian Native Plum Fermentation: An Infogest and Mathematical Model-Based Approach
Indeewarie Hemamali Dissanayake, Western Sydney University, Australia

Focus 2026 — Polyphenols, Taste Receptors & Satiety



17h05 **Beyond the Tongue: Gut Taste Receptors as New Targets for Satiety**
Inge Depoortere, KU Leuven, Belgium

18h30 End of Day 1

19h30 **Speakers' Dinner**

Day 2 – October 9, 2026

FROM FOOD SYSTEMS TO APPLICATIONS & INNOVATION

A progression from food, nutrition and sustainability to new delivery systems, biomaterials and emerging applications.

8h30 Welcoming of attendees

Session 3 – Polyphenols in Food, Nutrition, Agriculture & Sustainability



9h00 **Polyphenols in Food Systems: Improving Quality and Safety**
Francisco J. Hidalgo, CSIC, Spain



9h25 **Rethinking Polyphenol Intake in Modern Lifestyles: From Food Processing to Precision Nutrition**
Bhimu Patil, Texas A&M University, USA



9h50 **Species-Specific Biofunctionality of Polyphenols: Insights from Ruminant and Human Nutrition**
Katrin Giller, University of Hohenheim, Germany

10h15 Coffee Break, Networking and Poster Sessions



11h00 **Reducing Methane Emissions with Polyphenols: New Strategies for Sustainable Animal Production**
Maria Hayes, Teagasc Food Research Centre, Ireland

11h25 Short Oral Presentations (10 Minutes)

The Antimicrobial Action of Peanut Skins and Peanut Skin Polyphenolic Extracts
Ondulla Toomer, U.S. Dept. of Agriculture, Agricultural Research Service, USA

From Coffee (Coffea Arabica L.) By-Product to Fungal Control: Potential of Coffee Husk Extract Against Two Mycotoxigenic Fungi
Milena Jiménez-Gutiérrez, University of Costa Rica, Costa Rica

Hydroxytyrosol-Rich Olive Polyphenols Act as Hormetic Regulators of Plant Metabolism and Crop Productivity
Bassam Damaj, Veos Pharmaceuticals, SL, Spain

12h00 Lunch Break, Networking and Poster

Session 4 – Polyphenol Applications & Innovation



13h40 **Extracellular Vesicles and Polyphenols: A New Frontier for Precision Nutrition and Clinical Translation**
Alberto Dávalos, IMDEA-Food, Spain



14h05 **Engineering the Next Generation of Polyphenols: From Natural Bioactives to Multi-Target Therapeutics**
Angela Corvino, University of Naples Federico II, Italy

14h30 Short Innovation Oral Presentations (10 Minutes)

From Olive Pomace to Functional Ingredients: An Innovative Alginate–Maltodextrin Hydrogel Formulation for Sustainable Polyphenol Encapsulation and Gastrointestinal Delivery

Sandra Rodríguez-Blázquez, Complutense University of Madrid, Spain

Polyphenols - Bioactive Compounds of Biomimetic Systems Used in Tissue Regeneration

Elena Iulia Oprita, National Institute R&D for Biological Sciences, Romania

Screening of Subcritical Water Extraction for *Tripolium Pannonicum* and *Sarcocornia Perennis*

Lorena Palomares Ruiz, Aalborg University, Denmark

Sustainable Extraction and Formulation Strategies: Aqueous vs. Methanolic Recovery of Polyphenols in *Ocimum basilicum* L.

André Riveiro Suárez, Universidad de Vigo, Spain

15h10 Coffee Break, Networking, Poster Presentation

Closing Sequence

15h50

- **Innovation Presentations / Pitches**
- **Final Discussion - Where Is the Polyphenol Field Going Next?**
- **Awards**

17h00 End of Polyphenols Applications 2026

For more information, please visit: www.polyphenols-site.com