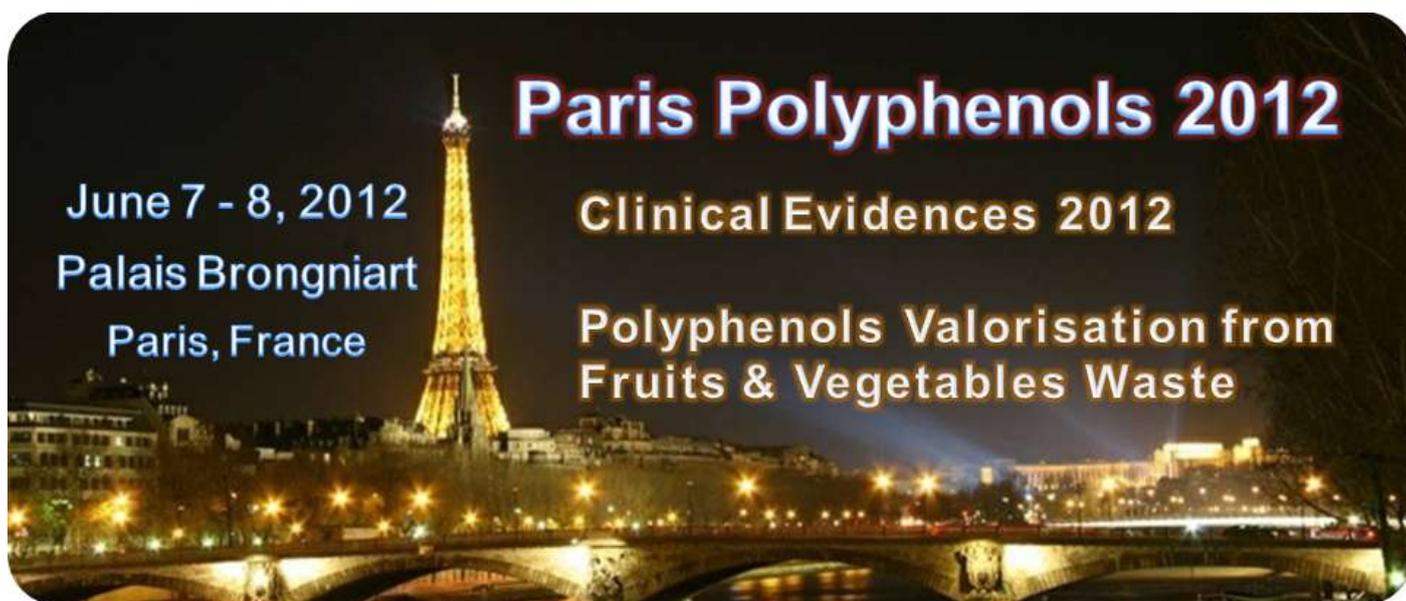


Paris Polyphenols 2012

6th International Conference on

Polyphenols Applications



Report of Conference

June 7 & 8, 2012 – Paris, France



www.polyphenols-site.com

Paris Polyphenols 2012

Message from Chairmen



The 6th edition of ISANH Polyphenols 2012 was held in **Paris** in **June 7 & 8, 2012** and brought **together experts from academia and industry**, established researchers and young, emerging talents from almost all continents.

These two days were very rich and active with high quality debates about scientific advances.

Indeed, experts' contributions highlighted the tremendous opportunities as well as the challenges that are associated with one of the most fascinating classes of secondary plant metabolites.

Recent Advances and Clinical Applications of Polyphenols in health were highlighted by oral & poster presentations.

Some critical questions concerning clinical studies and claims were discussed. The impact of polyphenols consumption on consumers and how marketing can not go faster than sciences advances (how to avoid speculations as for resveratrol)

One of the main conclusions of the first day was that polyphenols will play a central role in the prevention of many chronic diseases. Many presentations showed the impact of polyphenols on diabetes, obesity, cancer, neurodegenerative and cardiovascular diseases. **There is no doubt that phenolic compounds hold promise for application as functional food ingredients and nutraceuticals, natural additives in foods and feeds, and even as pharmaceuticals.**

Polyphenols & Waste Valorisation from Fruits and Vegetables Processing

The aim of this session was to discuss how by-products of the fruit and vegetable industry (such as tomato peel, olive margin, paper waste, wine, beer, cider and palm industries) can be utilized for the recovery of polyphenols and other valuable components.

During this conference, by-products arising from processing of plant-derived raw materials were demonstrated to be excellent sources of phenolics, **but economically feasible approaches are still needed for their exploitation.**

Various processes and techniques were suggested for the extraction, fractionation and isolation of target compounds. In order for phenolics to be applied as bioactive compounds, more data needs to be generated concerning their efficacy, bioavailability, metabolism, their chemical and physical behavior in various matrices during processing, and obviously their potential toxicity. Despite significant advances in the analysis of phenolic compounds, there are still challenges when it comes to their characterization and quantification.

Future congresses on Polyphenols Applications will address, among others, these topics in order to obtain a more complete picture of the potential of phenolics.

On behalf of the Organizing Committee and ISANH, we would like to express our sincere gratitude to all speakers and participants for their contribution during these two days. It gave us a great pleasure to thank all those who graciously supported **Paris Polyphenols 2012** and who have been involved in the organization of the conference.

We look forward welcoming you next year in Germany for the 7th ISANH Polyphenols Congress.

Pr Marvin Edeas - Chairman of ISANH

Pr Andreas Schieber - Chairman of Scientific Committee

Scientific Programme

Day 1 – Thursday 7

8h30 Welcoming & Registration

9h00 General Introduction: Why Paris Polyphenols 2012 ?

Marvin Edeas, Chairman of ISANH, Paris, France

Session 1:

Polyphenols & Health: The Clinical Evidences

9h15 Randomized Clinical Trial concerning Effects of Polyphenols on Inflammation and Atherosclerosis

Ramon Estruch, Department of Internal Medicine, Hospital Clínic, IDIBAPS, University of Barcelona and CIBER Obesity and Nutrition, Institute of Health Carlos III, Barcelona, Spain

9h45 Randomized Controlled Trials on Olive Oil Polyphenols Benefits for Human Health

- *Beneficial effects of olive oil on LDL oxidation*
- *Euroolive & Nutrigenomics: Recent Data*

Maria Isabel Covas, Cardiovascular Risk and Nutrition Research Group, IMIM-Institut de Recerca Hospital del Mar, Barcelona, Spain

10h15 Discussion

10h30 – Coffee Break & Posters Presentation

11h00 Natural Polyphenols in Cancer Therapy: from Bench to Bedside

José M. Estrela, Department of Physiology, Faculty of Medicine and Odontology, University of Valencia, Valencia, Spain

11h30 Phytochemical Antioxidants Characterization and Antiradical Activity of Phenolic-Rich Products

Boris Nemzer, Director of Research and Development, VDF FutureCeuticals, Momence, USA

12h00 Discussion

12h30 – Lunch Break & Posters Presentation

13h45 Paris Polyphenols 2012 Lecture: Hydrolyzable Tannins: From Folk Medicine to Chemical Biology via Wine Sciences

Stéphane Quideau, Director of Group Polyphenols, Bordeaux, France

14h15 Development of Brain-Targeted Grape-Derived Polyphenolics for Alzheimer's Disease Prevention and Therapy

Giulio Maria Pasinetti, Director, Center of Excellence for Novel Approaches to Neurotherapeutics, Mount Sinai School of Medicine, The Saunders Family Chair, New York, USA

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14h35 Short Oral Presentations Session

Effect of Omnivin 20R on Oxidative Stress in Humans – Clinical Study Results

Kristof Van Belleghem, R&D Project Development Manager, Ajinomoto Omnicem, Wetteren, Belgium

A Double-Blind, Randomized, Controlled Clinical Trial Evaluating the Efficacy and Tolerance of a Novel Phenolic Antioxidant Skin Care System Containing Coffea Arabica and Concentrated Fruit and Vegetable Extracts

Debbie Palmer, Dr Palmer's LLC, Greenwich, USA

Modulation of Oxidative Damage by Green and Black Tea: Role of Smoking and Gender

Iman Hakim, University of Arizona, Mel & Enid Zuckerman College of Public Health and the Arizona Cancer Center, Tucson, USA

Polyphenolic Rich Tropical Fruits and Green Tea in the Management of Diabetes: Clinical and Molecular Evidence

Theeshan Bahorun, ANDI Centre for Biomedical and Biomaterials Research, University of Mauritius, Republic of Mauritius

Correction of Oxidative Stress in Diabetes Mellitus Patient with Natural Polyphenols

Andreas Sketers, Riga Stradins University, Riga, Latvia

Potential of Polyphenol-Rich Products to Improve Aging-Related Endothelial Dysfunction

Valérie Schini-Kerth, Strasbourg University, Strasbourg, France

Iron in Diet May Modify Tea Antioxidant Properties

Antonios E. Koutelidakis, Unit of Human Nutrition, Department of Food Science and Technology, Agricultural University of Athens, Greece

Phenolic Compounds from Siberian Larch – Promising Pharmaceutical Substances

Nikolay Nifantiev, Zelinsky Institute of Organic Chemistry, Russian Academy of Science, Moscow, Russia

Solid State Production of Bio-Active Mechanocomposite for Extraction of Polyphenols from Plant Raw Material

Igor Lomovskiy, Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia

16h05 Concept and Health Related Properties of Non-Extractable Polyphenols: The Hidden Face of Dietary Polyphenols.

Fulgencio Saura-Calixto, Institute of Food Science, Technology and Nutrition, Madrid, Spain

16h25 Network Session around Drinks & Snacks – Posters Presentation & Exhibition Session

Paris Polyphenols attendees, academics and industrials are invited to a warm-up networking session over drinks and snacks.

17h30 End of the first day

19h30 Speakers Dinner

Day 2 – Friday 8

Session 2:

Polyphenols & Waste Valorisation from Fruits and Vegetables Processing

9h00 Processing Waste from Fruits, Vegetables and Oilseeds: An Overview of Sources, Phenolic Profiles and Potential Applications

Andreas Schieber, University of Bonn, Germany

9h30 Conventional and Novel Techniques for the Extraction of Biologically Active Compounds from Processing By-products

Nigel Brunton, TEAGASC, Ashtown, Dublin, Ireland

10h00 Strategies for the Fractionation and Analysis of Polyphenols from By-products of Food Processing

Peter Winterhalter, University of Braunschweig, Braunschweig, Germany

10h30 – Coffee Break & Posters Presentation

11h00 Adsorption and Ion Exchange Technology for the Recovery and Fractionation of Polyphenols from Food Processing By-products

Dietmar Kammerer, University of Hohenheim, Germany

11h30 Microencapsulation of Polyphenols Containing Extracts from Apple Pomace

Nadine Schulze-Kaysers, Institut für Ernährungs und Lebensmittelwissenschaften, University of Bonn, Germany

12h00 Colour Stabilisation of Strawberry Anthocyanins through Co-Pigmentation with Phenolic Compounds from Distilled Rose Petals: a Practical Case

Kiril Mihalev, University of Food Technologies, Plovdiv, Bulgaria

12h30 Discussion

12h45 Lunch Break & Posters Presentation

14h00 Industrials Practical Case 1: Hydroxytyrosol Derived from Olive Oil Waste Water and its Industrial Applications in Health, Wellness and Lifestyle

Roberto Crea, Founder & CEO, CreAgri Inc., Hayward, USA

14h15 Industrials Practical Case 2: Adsorption and Alternative Technologies for Recovery and Purification of Polyphenols: Case Reports for Industrial Applications

Eldra Delannay, Purifunction, Loos, France

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14h30 Turning Post-Distillation Oregano into Beneficial Bioactive Products

Daphna Havkin-Frenkel, Rutgers the State University of New Jersey, New Brunswick, USA

14h45 Short Oral Presentations

Sea Buckthorn (*Hippophae Rhamnoides* L.): A Valuable Plant Rich in Polyphenolic Compounds

Emilie Destandau, Institute of Organic and Analytical Chemistry, University of Orléans, Orléans, France

Ultrasound Assisted Extraction of Polyphenols from Black Chokeberry Waste

Krasimir Dimitrov, Polytech Lille, Lille Nord de France University, Villeneuve d'Ascq, France

Flavonols in Peels of Cactus *Opuntia Ficus-Indica* and *Opuntia Macrorhiza* Fruits

Tamer E. Moussa-Ayoub, Technical University of Berlin, Institute of Food Technology and Food Chemistry, Berlin, Germany

Polyphenols Microwave-Assisted Extraction for the Valorisation of Brewer's Spent Grain

Manuela M. Moreira, University of Porto, Porto, Portugal

Wood Residues from Pulp and Paper Industry are Rich Ressources of Bioactive Compounds

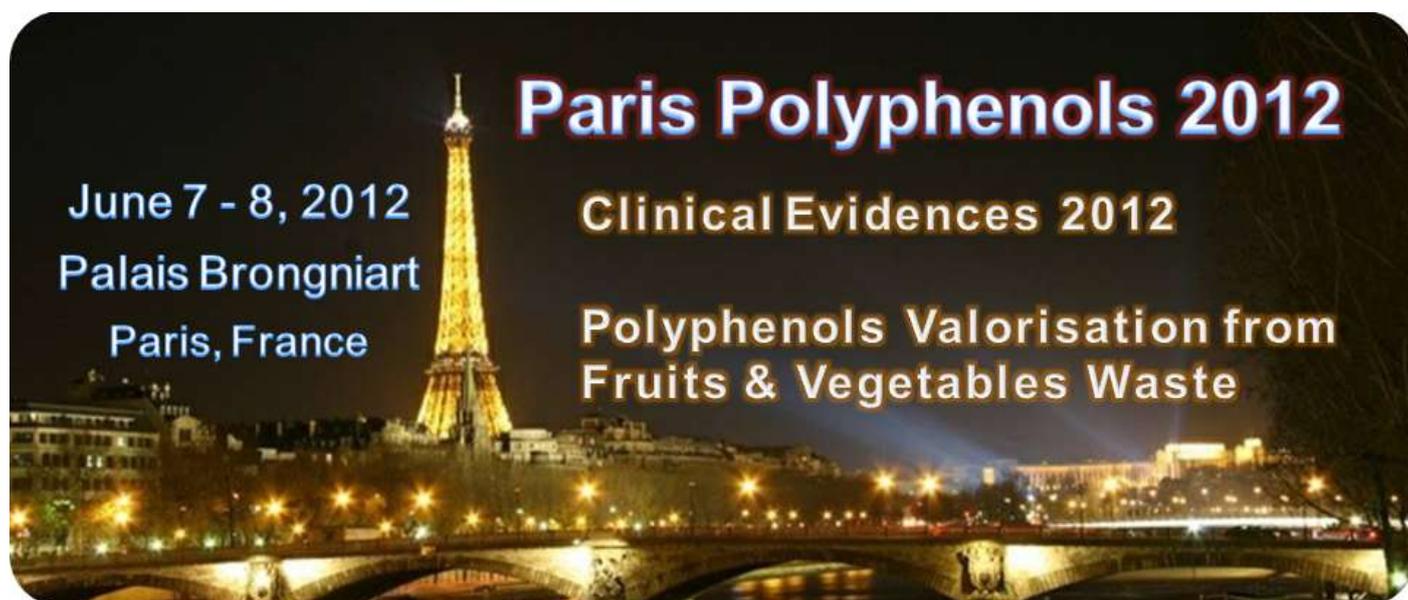
Frédérique Bertaud, Technical Centre of Wood, Grenoble, France

15h45 General Discussion and Conclusion of the Conference

Paris Polyphenols Awards 2012

16h15 Network Session around Drinks & Snacks – Posters Presentation

17h00 End of Paris Polyphenols 2012



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