Guest Editors:
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Hot Topic Title: Dietary Polyphenols: Well beyond the Antioxidant Capacity
Manuscript Submission Deadline: 15/03/14

Aims & Scope:
In the last decades epidemiological studies and associated meta-analyses have strongly suggested that long term consumption of plant foods (fruits, vegetables, cereals, dry legumes, and beverages like wine, coffee and tea) offers protection against development of oxidative stress related pathologies, such as cancers, cardiovascular diseases, diabetes, osteoporosis and neurodegenerative diseases. These results have prompted research to study polyphenols, following the discovery of their antioxidant and radical scavenger activities. So, the antioxidant properties of polyphenols have been widely studied from the mid-1990s, but the latest research indicates that the mechanisms of action of polyphenols go beyond the modulation of oxidative stress. Polyphenols protective activity can be ascribed to their capacity of interact with cellular functions at different levels, such as affecting gene expression, protein synthesis and enzyme activities, binding to membrane or nuclear receptors as either an elective ligand or a ligand mimic. Recently, it has been also demonstrated the antibacterial activity of some polyphenols against multidrug-resistant bacteria.
The goal of this special issue is to present novel results about dietary polyphenols healthy properties, with particular attention to their mechanisms of action.

Keywords: Polyphenols, health implications, antibacterial activity, cancer, cardiovascular diseases, neurodegenerative diseases, vegetable foods and beverages, epigenetic.
List of authors for the Special issue entitled: DIETARY POLYPHENOLS: WELL BEYOND THE ANTIOXIDANT CAPACITY.

1. Anna Marchese, Erika Coppo, University of Genoa, Italy

**TOPIC: Antibacterial Activity of Polyphenols**

2. José Ángel Rufián-Henares, University of Granada, Spain, and Maria Paz de la Pena, University of Navarra-Pamplona, Spain

**TOPIC: Coffee polyphenols: well beyond their mere presence and their antioxidant capacity**

3. Mohammad Abdollahi, Tehran University of Medical Sciences, Tehran, Iran

**TOPIC: Roles of Polyphenols, Flavonoids, and Oligomeric Proanthocyanidins in Cancer Chemoprevention**

4. Huige Li, Ning Xia and Ulrich Förstermann, Department of Pharmacology, Johannes Gutenberg University Medical Center, Mainz, Germany

**TOPIC: Effects of resveratrol in the vasculature**

5. Ilkay ERDOGAN ORHAN, University of Gazi, Ankara, Turkey

**TOPIC: Implications of Flavonoid Derivatives towards Alzheimer’s disease with the Emphasis on Their Mechanism and Bioproduction**

6. Dominique Delmas, Virginie Aires, University of Burgundy, Dijon, France

**TOPIC: Common pathways in health benefit properties of resveratrol in cancers and degenerative pathologies**

7. Nabavi SF, Baqiyatallah University of Medical Sciences, Iran, Daglia M. University of Pavia, Italy, Nabavi SM. Baqiyatallah University of Medical Sciences, Iran

**TOPIC: Gallic acid as a neuroprotective agent: a brief review**

8. Antoni Sureda, Silvia Tejada, Maria del Mar Bibiloni, Josep Antoni Tur, Antoni Pons, University of Balearic Islands, Palma de Mallorca, Spain,

**TOPIC: Polyphenol supplementation and exercise induced oxidative stress**

9. Solomon Habtemariam, University of Greenwich, UK

**TOPIC: Therapeutic potential of polyphenol for treating diabetes**

10. Dragan Milenkovic and David Vauzour, Unité de Nutrition Humaine, France
TOPIC: Multitargeted mode of action of polyphenols: from epigenetics to nutrigenomics
11. Ramón Rodrigo, Matías Libuy, Felipe Feliú, Daniel Hasson, University of Chile Independencia, Casilla, Santiago, Chile

TOPIC: Polyphenols in disease: from diet to supplements
12. Cinta Blade, Laura Baselga-Escudero, Anna Arola-Arnal

TOPIC: microRNAs as new targets of dietary polyphenols
13. Luca Rastrelli, University of Salerno, Italy

TOPIC: Polyphenols of mango: implications for human health
14. Thais Porto Ribeiro, Grazielle Caroline da Silva, Cyril Auger, Valérie B. Schini-Kerth, University of Strasbourg, Illkirch, France

TOPIC: Endothelial nitric oxide synthase: a major target for the natural product-derived polyphenol-induced vascular protection
15. Maria-Grazia Martinoli, Department of Medical Biology, Université du Québec, Canada

TOPIC: Resveratrol as a protective molecule in neuroinflammation