

Special Issue

Dietary Polyphenols and Neuroprotection

Message from the Guest Editors

Polyphenols are naturally occurring molecules ubiquitous in plants. They are edible constituents of many food sources like wine, green tea, grapes, vegetables, red fruits, and coffee. Many studies using polyphenols have shown that they modulate several cellular functions and molecular pathways, with a significant impact on the prevention and treatment of various pathological conditions, like cancer, cardiovascular disorders, pollutant-induced cell damage, and also neurodegenerative diseases. Neurodegenerative diseases are among the main causes of death worldwide and, in most of them, like Alzheimer's or Parkinson's, neurodegeneration occurs long before the onset of first symptoms, where a large population of brain neurons is already lost. Besides neurons, glial cells, like astrocytes and microglia, are involved in oxidative and neuroinflammatory pathological pathways, making them interesting targets for neuroprotective strategies. Polyphenols are promising candidates for those strategies, either as prophylactic substances or as therapeutic molecules. We invite you to further explore all these issues, contributing with your prominent expertise to this Special Issue.

Guest Editors

Prof. Dr. Rui F. M. Silva

Faculty of Pharmacy, University of Lisbon, Lisbon, Portugal

Prof. Dr. Lea Pogačnik

Department of Food Science and Technology, Biotechnical Faculty, University of Ljubljana, SI-1000 Ljubljana, Slovenia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antioxidants@mdpi.com

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About the Journal

Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of “oxidative stress” a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

Editor-in-Chief

Prof. Dr. Alessandra Napolitano

Department of Chemical Sciences, University of Naples “Federico II”,
Via Cintia 4, I-80126 Naples, Italy

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