



Role of Natural Antioxidants on Neuroprotection and Neuroinflammation

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Message from the Guest Editor

Oxidative stress is a real risk factor for the onset and development of neurodegenerative diseases in young and adult people, and, it plays an important role in premature aging. For this reason, numerous literature data converge in indicating that the oxidative stress is cause of cellular dysfunction and this, in turn, can lead to the development of neuroinflammation and consequently, of neurological disorders. Numerous cellular processes are altered during oxidative stress, such as mitochondrial regulation, DNA repair, cell signaling, and other fundamental mechanisms. Several phytochemical complexes with antioxidant function have been identified as potential therapeutic agents to prevent/treat neurodegeneration.

This Special Issue aims to collect original research articles, review papers, mini-reviews, opinions, or short communications in the field of neurodegeneration and, in particular, the different aspects of bioactive antioxidants are presented. The effects of diet and lifestyle on the insurgence of neuronal damages are also illustrated.





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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.

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