

Special Issue

Polyphenolic Compounds as Neuroprotective Agents

Message from the Guest Editor

The deleterious effects of ROS and RNS are characterized by enhanced lipid peroxidation, oxidative damage to proteins and DNA, and mitochondrial dysfunction, often leading to cell death via apoptosis or necrosis. These processes are hallmarks of neurodegenerative disorders, such as Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis, as well as brain ischemia and neurotrauma. Antioxidants exhibit intrinsic free radical scavenging activity, making them potential therapeutic agents for these disorders. Many polyphenolic compounds have also been shown to influence endogenous antioxidant systems via the Nrf2/Keap1 pathway. This Special Issue of *Antioxidants* invites submissions of both reviews of the literature as well as original research articles describing the neuroprotective effects of polyphenolic compounds in cell culture systems, preclinical animal models, and human clinical studies.

Guest Editor

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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

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