Special Issue

Oxidative Stress and Antioxidants in Neurodegenerative Disorders 2nd Edition

Message from the Guest Editor

Growing evidence has indicated that oxidative stress, mitochondria dysfunction, inflammation, lysosomal dysfunction, protein aggregation and iron deposition are key factors leading to neuronal death in neurodegenerative diseases such as Parkinson's disease, Alzheimer's disease, Huntington's disease and a heterogeneous group of disorders known as neurodegeneration with brain iron accumulation. Increasingly, it has been acknowledged that several of these factors are intertwined, generating positive feed-back loops that conclude in neuronal dysfunction and death. Reactive oxygen species are central in these positive loops, since they contribute to mitochondria dysfunction and, together with iron, to lipid peroxidation and ferroptosis. Antioxidants, in particular lipophilic antioxidants, are of clinical interest, since they have the potencial to stop the lipid peroxidation cycle iniciated by the hydroxyl radical, as well as protein aggregation and nucleic acid damage.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2024)

Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed

mdpi.com/si/179090

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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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