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Oxidative Stress in Neurodegenerative Disease

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Message from the Guest Editors

Oxidative stress, along with mitochondrial dysfunction and pathological protein aggregation, is a hallmark of many neurodegenerative diseases. Oxidative stress may lead to the death of neurons, either directly or indirectly, as a consequence of mitochondrial dysfunction, altered proteostasis, physiological neurotransmitter metabolism, inflammation, or deregulation of antioxidant pathways.

For this Special Issue, we aim to bring together the most recent information on the causes and consequences of oxidative stress in neurodegenerative diseases. We invite authors to submit their latest relevant research findings or review articles, including *in vitro*, *in vivo*, and clinical studies relating to any of the following topics: molecular and cellular responses to oxidative damage in the brain; age-related and/or disease-specific changes in neuronal antioxidant defense pathways; oxidative stress biomarkers for diagnostic and monitoring disease progression and treatment efficacy; methods to study oxidative stress in neurodegenerative disease models and patients; and antioxidant therapies for neurodegenerative diseases.

We look forward to your contribution.



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Special Issue



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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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