

Special Issue

Oxidative Stress, Neuroinflammation and Neurodegeneration

Message from the Guest Editors

Neuroinflammation can be caused by various insults to the brain and represents an important pathological hallmark of neurodegenerative diseases, including Alzheimer's and Parkinson's diseases. It is characterized by the activation of the microglia and astrocyte population. The proinflammatory cytokines IL-1 α and IL-18 play a crucial role in tissue homeostasis. Their secretion is determined by the inflammasome, a multicomponent complex that processes IL-1 α and IL-18 into mature cytokines. Reactive oxygen species (ROS), particularly mitochondrial ROS, have been implicated in inflammasome activation. In this Special Issue, we propose to discuss how ROS influence the inflammatory immune response in the brain. We invite you to submit your latest research findings or a review article to this Special Issue, which will focus on current research concerning neuroinflammation and the role of oxidative stress in this process. We look forward to your contribution.

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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.

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