Special Issue

Oxidative Stress and Neurotoxicity

Message from the Guest Editor

Recent studies indicated that oxidative stress is involved in multiple cell death processes, including autophagic, ferroptotic and cuproptotic cell deaths. The nervous tissue is highly vulnerable to oxidative damage due to its high energy demand, high oxygen consumption and abundance of peroxidiable fatty acids. In addition, mitochondria, the "power plant" of cells, are the main products and targets of cellular ROS. Oxidative stress usually causes mitochondrial dysfunction, and they are often implicated during neurotoxicity and neurological disease, but effective mechanism-based therapies remain elusive.Therefore, this Special Issue aims to collate innovative original research and review articles that reveal novel pathogenic mechanisms, potential therapeutic strategies, and neuroprotective agents—with a particular focus on oxidative stress, mitochondrial dysfunction, or their interplay—to better understand and mitigate drug- or toxin-induced neurotoxicity.

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.

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