

Special Issue

Oxidative Stress in Neurons

Message from the Guest Editors

Oxidative stress is a hallmark of major neurodegenerative disorders, including amyotrophic lateral sclerosis, Parkinson's and Alzheimer's disease, as well as ageing. Importantly, oxidative stress markers are present in cell populations selectively targeted in neurodegeneration, and pathogenic mutations occur in proteins that feature prominently in antioxidant pathways. Oxidative stress is also an important feature of many other major neurological disorders including multiple sclerosis and epilepsy, and fundamental aspects of neurotransmission and neurodevelopment are also influenced by the damaging properties of reactive oxygen species (ROS), but also their role as valuable signalling molecules. This Special Issue of *Antioxidants* will focus on the role of oxidative stress and antioxidant pathways in neurons, with the aim of bringing together new data and commentaries on all aspects of neuronal cell function in relation to ROS, with relevance to specific disease states and defined neuronal populations in addition to the function and potential therapeutic manipulation of endogenous antioxidant mechanisms.

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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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