Special Issue

Trace Elements, Redox Balance, and Neurological Diseases

Message from the Guest Editors

Trace elements are indispensable for organisms to execute normal physiological functions. In recent years, breakthroughs have been achieved in the exploration of the following areas: imbalanced trace element metabolism has a significant impact on the onset of neurological diseases; the intricate signaling pathways that initiate redox imbalance are closely related to trace elements; oxidation-reduction imbalance plays an important role in the genesis and progression of neurological diseases and the aging process.

This Special Issue aims to explore the latest progress made in terms of the effects of trace elements such as iron, copper, etc., on neurodevelopment, aging, psychological disorders, and neurological diseases, including stroke, Parkinson's disease, Alzheimer's disease, Huntington's disease, ALS, etc., and to explore the mechanisms of cell division, differentiation, migration, aging, apoptosis, ferroptosis, and necrosis related to the regulation of redox signaling caused by an imbalance in trace element metabolism, that will promote further development of the study of trace elements, redox balance, and neurological diseases.

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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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