

Special Issue

The Janus Face of Oxidative Stress in Normal and Pathological Conditions

Message from the Guest Editor

This Special Issue proposes to delve into the dualistic environment of oxidative stress, a phenomenon that plays a crucial role in both the conservation of cellular homeostasis and the evolution of various diseases. This collection of articles will discover the subtle balance between the beneficial and detrimental outcomes of ROS/RNS, highlighting how these molecules, while indispensable for standard physiological functions such as signaling and immune response, can also drive pathological activities when their regulation is altered. By combining cutting-edge research and comprehensive reviews, this issue pursues to provide a greater understanding of the mechanisms underlying oxidative stress and disclose potential therapeutic approaches for moderating its harmful impacts in disorders such as cancer, addiction, immune-endocrine conditions, neurodegenerative diseases, and cardiovascular disorders. Through this double perspective, this Special Issue emphasizes the importance of context in oxidative stress research, highlighting that the same molecular events can lead to vastly different consequences depending on the cellular and systemic setting.

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.

Editor-in-Chief

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