

Special Issue

Frontiers in Oxidative Stress and Metabolic Diseases

Message from the Guest Editors

Over the past few decades, the prevalence of metabolic diseases, including type 2 diabetes mellitus, obesity, metabolic syndrome, and fatty liver diseases, has increased dramatically. An imbalance between the generation of Reactive oxygen species (ROS) and antioxidant defense systems establishes oxidative stress. Previous studies have found that excessive ROS generation is linked to cellular and tissue dysfunction, immune activation, and inflammation that are critical for the pathogenesis of metabolic diseases. Underlying molecular mechanisms leading to oxidative-induced cellular dysfunction include mitochondrial impairment, autophagy, mitophagy, endoplasmic reticulum stress and apoptosis, but there is still much to be learned about their mutual interaction and the modifications they undergo during metabolic diseases. Given the relevance of this topic, it would seem appropriate to summarize some of the main recent advances in the research on the role of oxidative stress and underlying molecular mechanisms in the pathogenesis of metabolic diseases and the new therapeutic strategies to combat their detrimental impact on health, disease and ageing.

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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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