



Oxidative Metabolism and Mitochondrial Dysfunction in Metabolic Diseases—2nd Edition

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Message from the Guest Editors

Mitochondria are organelles involved in cellular processes including energy production through the oxidative phosphorylation system and in various critical signaling pathways. It is well known that impaired mitochondrial integrity is associated with the pathogenesis of various metabolic diseases, non-communicable pathologies characterized by inflammatory processes closely related to mitochondrial dysfunction. In recent decades, these organelles have been considered as a target of potential therapeutic approaches for the treatment of various diseases. Moreover, molecules naturally produced by plants and a variety of synthetic compounds are capable of modulating mitochondrial function. This Special Issue aims to collect original research and review articles describing the role of mitochondria in metabolic alterations and the potential therapeutic approaches adopted for improving the impaired functionality of mitochondria.





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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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