

Special Issue

Oxidative Metabolism and Mitochondrial Dysfunction in Metabolic Diseases

Message from the Guest Editors

Mitochondria are organelles involved in important and fundamental cellular processes, they are also the principal site of cellular reactive oxygen species (ROS) production, and an imbalance between the production of ROS and cellular antioxidant defenses leads to alterations to mitochondria integrity. It is well known that impaired mitochondrial integrity is associated with the pathogenesis of various metabolic diseases. 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. Manuscripts that investigate the influence of the natural or chemical compounds that modulate mitochondrial function and the underlying mechanisms will be considered. This data collection can help redefine preventive and therapeutic strategies in an attempt to prevent and counter the onset of metabolic diseases.

Guest Editors

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Prof. Dr. Maria Pina Mollica

Dr. Giovanna Trinchese

Deadline for manuscript submissions

closed (10 May 2023)



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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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