

Special Issue

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

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.

Guest Editors

Dr. Gina Cavaliere

Prof. Dr. Maria Pina Mollica

Dr. Giovanna Trinchese

Deadline for manuscript submissions

closed (25 January 2025)



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Antioxidants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antioxidants@mdpi.com

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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

Prof. Dr. Alessandra Napolitano

Department of Chemical Sciences, University of Naples “Federico II”,
Via Cintia 4, I-80126 Naples, Italy

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