

Special Issue

Antioxidants in Mitochondrial Dysfunction Disease

Message from the Guest Editors

We are leading the following Special Issue entitled “Antioxidants in Mitochondrial Dysfunction Disease” in the journal *Antioxidants*. Mitochondria act as master regulators inside our cell. While influencing the intracellular availability of high-energy molecules, such as ATP, their status orchestrates the function of almost every biochemical and signaling process, either directly or indirectly. Antioxidants are supposed to act by clearing out cells and biological fluids from harmful reactive oxygen species, reactive nitrogen species and pro-oxidant molecules such as trimethylamine oxide. However, some of them have been shown to directly promote oxidative phosphorylation and mitochondrial ATP production, fostering electron transport along the inner mitochondrial membrane as well as H⁺-pump activity. Some others indirectly affect mitochondrial activity by promoting the catabolic reactions necessary to fulfill mitochondrial requirements for intermediates. Contributions to this Special Issue may cover all research aspects related to endogenous and exogenous antioxidants endowed with either direct or indirect mitochondrial promoting activity.

Guest Editors

Prof. Dr. Mariano Stornaiuolo

Department of Pharmacy, University of Naples Federico II, Via Montesano 49, 80149 Naples, Italy

Prof. Ettore Novellino

Department of Pharmacy, University of Naples Federico II, Via D. Montesano 49, 80131 Naples, Italy

Deadline for manuscript submissions

closed (15 October 2021)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/78270

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

[mdpi.com/journal/
antioxidants](https://mdpi.com/journal/antioxidants)





Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



[mdpi.com/journal/
antioxidants](https://mdpi.com/journal/antioxidants)



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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)