

Special Issue

The Versatility of Mitochondrial Calcium: Insights in the Regulation of Redox Signaling

Message from the Guest Editor

This Special Issue will highlight studies relating to the interplay between calcium and redox signaling. Calcium (Ca²⁺) is a crucial second messenger involved in intracellular molecular routes, and it plays an essential role in cell fate decisions from birth, through to development, and finally to death. Ca²⁺ signaling is put in place by an intricate network of proteins, differently localized inside cells which sense and spread Ca²⁺ signals by spatio-temporal means in order to regulate cellular processes. Ca²⁺ signaling pathways interact with other cellular signaling systems such as reactive oxygen species (ROS). Originally considered as simple detrimental by-products of metabolism, it is now evident that ROS generated in sub-toxic amounts may act as signaling molecules involved in various physiological processes. This Special Issue aims to collect papers (both original articles and review) which highlight the crosstalk of these two systems in physiology, and how this can be dysregulated in human diseases generating potentially harmful effects.

Guest Editor

Dr. Giampaolo Morciano

Laboratory for Technologies of Advanced Therapies, Department of Medical Sciences, University of Ferrara, 44121 Ferrara, Italy

Deadline for manuscript submissions

closed (15 September 2023)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/112545

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, CAPIus / SciFinder, and other databases.

Journal Rank:

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