Special Issue

Oxidative Stress and Redox Regulation in Hematological Malignancies: Pro-oxidant Strategy or Antioxidant Approach?

Message from the Guest Editor

Redox homeostasis is a critical element of hematological malignancies and oxidative stress affects most, if not all, aspects of cell proliferation and chemoresistance. Abnormal oxidative stress is present in clonal cells and in normal bone marrow cells during a hematological malignancy. The increase in oxidative stress, if not adequately compensated by an antioxidant defense, has a significant impact on these diseases, inducing many inflammatory processes linked to DNA mutation and tumor development. This Special Issue aims to stimulate discussion and highlight the latest developments in understanding how and why oxidative stress occurs in tumor cells and the mechanisms linking altered redox system to tumorigenesis. Understanding how oxidative stress influences the behavior of neoplastic cells could support the development of new therapeutical strategies and drugs targeting metabolic pathways to destroy tumour cells.

Guest Editor

Dr. Alessandro Allegra
Division of Hematology, Department of Human Pathology in Adulthood and Childhood "Gaetano Barresi", University of Messina, 98125 Messina, Italy

Deadline for manuscript submissions

closed (20 August 2023)

Antioxidants

an Open Access Journal by MDPI

Impact Factor 8.2
CiteScore 14.7
Indexed in PubMed

mdpi.com/si/124513

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

mdpi.com/journal/antioxidants

Antioxidants

an Open Access Journal by MDPI

Impact Factor 8.2
CiteScore 14.7
Indexed in PubMed

mdpi.com/journal/antioxidants

MDPI

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 (Clinical Biochemistry)