Special Issue

Non-pharmaceutical Antioxidant Agents for Animal and Human Health

Message from the Guest Editor

Reactive oxygen species (ROS) are highly reactive molecules that play important roles in cellular functions in animals and humans. When present in excess, ROS are cytotoxic. Under normal physiologic conditions, the levels of these reactive molecules are regulated by the body's antioxidant system. Oxidative stress results when the production of ROS exceeds the capacity of neutralizing antioxidants to detoxify excess ROS. Oxidative stress has been linked to a wide range of pathophysiological conditions, including inflammatory disorders, joint, cardiovascular, neurological diseases, metabolic disease such as diabetes mellitus, cancer, and aging. Some pharmacologic agents are reported to be efficacious in counteracting the adverse effects of oxidative stress. However, experimental and clinical studies have not provided consistent confirmatory evidence for the antioxidative stress efficacy of these drugs. Scientific interest has turned to non-pharmacologic agents as alternative therapies. This special issue focuses on plant-based agents as candidates to mitigate oxidative stress in aging and disease.

Guest Editor

Dr. Carmelita G. Frondoza

1. Department of Orthopaedic Surgery, School of Public Health, Johns Hopkins University, Baltimore, MD, USA
2. Department of Molecular Microbiology and Immunology, School of Medicine, Johns Hopkins University, Baltimore, MD, USA

Deadline for manuscript submissions

closed (30 November 2022)

Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed

mdpi.com/si/88778

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 6.6
CiteScore 12.4
Indexed in PubMed

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)