

Special Issue

Antioxidants and Second Messengers of Free Radicals

Message from the Guest Editor

There is a lack of general understanding of pathophysiological roles played by reactive aldehydes like malondialdehyde, 4-hydroxynonenal, 4-hydroxyhexenal, acrolein, etc., which are considered also as “second messengers of free radicals”. Being generated mostly by lipid peroxidation, they often form bioactive adducts with macromolecules important for pathophysiology of living cells, thus mimicking the effects of ROS even in the absence of severe oxidative stress. Therefore, this Special Issue will publish original research papers and reviews on complex aspects of reactive aldehydes and their macromolecular adducts (especially with proteins and nucleic acids) generated during lipid peroxidation and their interference with natural and synthetic antioxidants in physiology of cell and in pathophysiology of various diseases studied by modern bioanalytical methods applied in translational and clinical medicine.

Guest Editor

Prof. Dr. Neven Zarkovic

Laboratory for Oxidative Stress (LabOS), Rudjer Boskovic Institute, Bijenička 54, HR-10000 Zagreb, Croatia

Deadline for manuscript submissions

closed (30 June 2018)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/12184

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)