

Special Issue

Oxidative Stress in Cardiovascular Diseases

Message from the Guest Editor

Metabolic disorders such as obesity, metabolic syndrome, and diabetes mellitus are major cardiovascular risk factors accompanied by increased risk of mortality, and are often associated with oxidative stress. Recent evidence indicates that oxidative stress may be the mechanistic link between obesity, diabetes mellitus, and related complications. Earlier failures to identify the underlying causes of disease explain disappointing clinical trial results and indicate that progress will not be possible until we disentangle symptoms from the causes. This lack of progress stems from our currently poor understanding of the central role of oxidative stress in HF and any beneficial effects in terms of therapy will require the targeting of this upstream modulator. Therefore, we aim to increase our basic understanding of the pathophysiology of heart diseases associated with oxidative stress, in order to provide firm foundations for clinical innovation. The present Special Issue aims to collect and document new findings in the pathophysiology of natural heart diseases associated with oxidative stress and the effect of antioxidants to understand their application in heart failure.

Guest Editor

Dr. Nazha Hamdani

1. Institute of Physiology, Department Cellular and Translational Physiology, Ruhr University Bochum, Bochum, Germany
2. Institut für Forschung und Lehre (IFL) Molecular and Experimental Cardiology, Katholisches Klinikum Bochum, St. Josef-Hospital, Bochum, Germany

Deadline for manuscript submissions

closed (31 January 2022)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 8.2
CiteScore 14.7
Indexed in PubMed



mdpi.com/si/65882

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 8.2
CiteScore 14.7
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 (Clinical Biochemistry)