

Special Issue

Redox-Dependent Regulation of Haemostasis in Health and Disease

Message from the Guest Editor

Haemostasis is the homeostatic response of the human body to injury and bleeding. Haemostasis is typically divided into primary haemostasis, in which circulating platelets play a pivotal role, and secondary haemostasis, consisting of the activation of the coagulation cascade leading to fibrin deposition and ultimately blood clotting. In reality, these two responses are tightly entwined, with platelets promoting coagulation and coagulation activating platelets via thrombin. Canonical post-translational protein modifications regulate both platelets and coagulation, with protein phosphorylation central to platelet function and proteolytic activation of native zymogens pivotal for coagulation. In addition, a growing body of evidence suggests that oxidative post-translational modification of plasma proteins, blood cells and vascular tissues is involved in normal primary and secondary haemostasis in physiological conditions. Interestingly, oxidative stress leads to the dysregulation of protein oxidation in the circulatory system, which participates in the development of the thrombotic complications associated with human vascular diseases.

Guest Editor

Dr. Giordano Pula
Universitätsklinikum Hamburg-Eppendorf und Medizinische Fakultät,
Hamburg, Germany

Deadline for manuscript submissions

closed (31 August 2021)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/54749

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)