



Nitric Oxide (NO) and Hydrogen Sulfide (H₂S) in Higher Plants under Physiological and Stress Conditions

Guest Editor:

Prof. Dr. Francisco J. Corpas

Department of Stress,
Development and Signaling in
Plants, Estación Experimental del
Zaidín, Consejo Superior de
Investigaciones Científicas, 18008
Granada, Spain

Deadline for manuscript
submissions:

closed (15 May 2019)

Message from the Guest Editor

Nitric oxide (NO) and hydrogen sulfide (H₂S) are two gasotransmitters endogenously generated in plant cells. Both gasotransmitters have families of related molecules designated reactive nitrogen species (RNS) and reactive sulfur species (RSS). Their mechanism of action is through posttranslational modifications such as S-nitrosation, nitration, or persulfidation affecting the redox status and function of the target proteins. Thus, NO and H₂S mediate several signaling networks and are key elements in biochemistry and physiology of plants.

The present Special Issue of *Antioxidants* aims to provide the most recent findings about the function of these two gasotransmitters in higher plants and it is opened to different types of manuscripts including original research papers, perspectives, or reviews where either NO, H₂S, or related molecules could be involved at biochemical or physiological levels.





an Open Access Journal by MDPI

Editor-in-Chief

**Prof. Dr. Alessandra
Napolitano**

Department of Chemical
Sciences, University of Naples
"Federico II", Via Cintia 4, I-80126
Naples, Italy

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.

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 (*Food Science & Technology*) / CiteScore - Q1 (*Food Science*)

Contact Us

Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/antioxidants
antioxidants@mdpi.com
[X@antioxidants_OA](https://twitter.com/antioxidants_OA)