



an Open Access Journal by MDPI

## Hydrogen Sulfide in Biology

Guest Editors:

### Dr. João Vicente

Instituto de Tecnologia Química  
e Biológica Antonio Xavier, NOVA  
University of Lisbon, Oeiras,  
Portugal

### Dr. Alessandro Giuffré

CNR Institute of Molecular  
Biology and Pathology, Rome,  
Italy

Deadline for manuscript  
submissions:

**closed (30 June 2021)**

### Message from the Guest Editors

H<sub>2</sub>S is an intermediate or end-product of various prokaryotic metabolic pathways. Moreover, it acts as a source of reducing power in prokaryotic and mitochondrial electron transport chains. As a signaling molecule, H<sub>2</sub>S exerts its regulatory function via chemical modification (persulfidation and polysulfidation) of cysteine residues or binding to metal centers in protein targets. The recognition over the past three decades of H<sub>2</sub>S as a fundamental second messenger in mammalian physiology has raised a great deal of attention to the association between dysregulation of H<sub>2</sub>S homeostasis and human pathologies, from neurological and cardiovascular diseases to different types of cancer.

In this Special Issue, we welcome contributions covering different aspects of H<sub>2</sub>S biochemistry and physiology, underlining how H<sub>2</sub>S evolved as an inorganic building block of life to an energy metabolite in prokaryotic and eukaryotic cells up to a multifaceted signaling molecule in human physiology and pathophysiology



[mdpi.com/si/47459](https://mdpi.com/si/47459)

# Special Issue



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 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)

## Contact Us

---

*Antioxidants* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

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