



Hydrogen Sulfide in Biology

Guest Editors:

Dr. João Vicente

Instituto de Tecnologia Química
e Biológica António 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

H₂S 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, H₂S 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 H₂S as a fundamental second messenger in mammalian physiology has raised a great deal of attention to the association between dysregulation of H₂S 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 H₂S biochemistry and physiology, underlining how H₂S 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.





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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.

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Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
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