



The Role of Natural and Synthetic Sulfur Compounds in Human Health and Diseases

Guest Editor:

Dr. Eugenia Piragine

Department of Pharmacy,
University of Pisa, Pisa, Italy

Deadline for manuscript
submissions:

20 December 2024

Message from the Guest Editor

Sulfur metabolism plays a central role in redox biochemistry and tissue homeostasis in humans. Increasing evidence indicates an imbalance in sulfur metabolism in many diseases, from cardiovascular to metabolic disorders. Therefore, the use of sulfur compounds is emerging as a possible therapeutic strategy to restore the balance of sulfur metabolism, preserve human health and slow the progression of disease. Of note, some sulfur compounds can act as hydrogen sulfide (H₂S) donors. This is an intriguing aspect of the pharmacology of sulfur compounds. In fact, the gasotransmitter H₂S exhibits a plethora of beneficial effects: it enhances the endogenous antioxidant defense system, counteracts the inflammatory process, promotes vasorelaxation, and slows cellular senescence. This Special Issue aims to evaluate the role of sulfur compounds in human health and diseases to support a possible clinical use of natural and synthetic sulfur compounds in the prevention and treatment of multiple pathological conditions.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI