



Hydrogen Sulfide and H₂S Donors in Cardiovascular, Metabolic, and Inflammatory Diseases

Guest Editors:

Dr. Alma Martelli

1. Department of Pharmacy, University of Pisa, 56126 Pisa, Italy
2. Interdepartmental Research Centre "Nutraceuticals and Food for Health (NUTRAFOOD)", University of Pisa, 56126 Pisa, Italy
3. Interdepartmental Research Centre of "Ageing Biology and Pathology", University of Pisa, 56126 Pisa, Italy

Prof. Dr. Vincenzo Calderone

Department of Pharmacy, University of Pisa, Via Bonanno Pisano 6, 56126 Pisa, Italy

Deadline for manuscript submissions:

closed (20 June 2024)

Message from the Guest Editors

Hydrogen sulfide (H₂S) is a pleiotropic endogenous gasotransmitter able to maintain homeostasis in several systems. In recent years, the discovery that the physiological production of H₂S resulted in the impairment of several pathological conditions such as hypertension, diabetes, endothelial dysfunction, etc., led to the study of exogenous sources of H₂S that are able to compensate for the lack or imbalance of H₂S, which are called H₂S donors. In this Special Issue, we focus our attention on the role of H₂S and /or H₂S donors in the physiopathological aspects of cardiovascular, metabolic or inflammatory diseases (including degenerative pathologies derived from the persistence of a chronic subclinical inflammation, such as cancer and neurodegenerative diseases). The demonstration or the speculation about the mechanisms of action by which H₂S and H₂S donors act in different pathologies will also be appreciated. Finally, the synthesis or the identification of novel natural H₂S donors will also be considered of interest for our Special Issue.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. José L. Quiles

Department of Physiology,
Institute of Nutrition and Food
Technology “Jose Mataix”,
Biomedical Research Center,
University of Granada, Avda.
Conocimiento s/n, 18100 Armilla,
Granada, Spain

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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 (Organic 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