

## Special Issue

# Reactive Sulfur Species in Microorganisms

### Message from the Guest Editor

Reactive sulfur species include sulfide ( $H_2S$ ,  $HS^-$ ) and sulfane sulfur that consists of compounds with zero valence sulfur. They are common cellular components in microorganisms and are produced via the degradation of cysteine and methionine, as well as from assimilatory reduction of sulfur. Sulfide may be oxidized to sulfane sulfur by sulfide: quinone oxidoreductase or fortuitous actions of other enzymes. The interchange and reactivities of sulfide and sulfane sulfur play important physiological functions in microorganisms. Research on the topic of reactive sulfur species in microorganisms is relatively new, and this Special Issue will promote the topic by publishing original research studies or reviews focused on the production, metabolism, and functions of reactive sulfur species.

### Guest Editor

Prof. Dr. Luying Xun

School of Molecular Biosciences, Washington State University, Pullman, WA 99164-7520, USA

### Deadline for manuscript submissions

closed (31 August 2023)



## Antioxidants

an Open Access Journal  
by MDPI

Impact Factor 6.6  
CiteScore 12.4  
Indexed in PubMed



[mdpi.com/si/131199](https://mdpi.com/si/131199)

*Antioxidants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[antioxidants@mdpi.com](mailto:antioxidants@mdpi.com)

[mdpi.com/journal/  
antioxidants](https://mdpi.com/journal/antioxidants)





# Antioxidants

---

an Open Access Journal  
by MDPI

---

Impact Factor 6.6  
CiteScore 12.4  
Indexed in PubMed



[mdpi.com/journal/  
antioxidants](https://mdpi.com/journal/antioxidants)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Alessandra Napolitano  
Department of Chemical Sciences, University of Naples “Federico II”,  
Via Cintia 4, I-80126 Naples, Italy

---

### 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, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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