

## Special Issue

# Focus on Antioxidants and COVID-19

### Message from the Guest Editor

It is well established that oxidative stress plays an important role in severe acute respiratory syndrome coronavirus (SARS-CoV-2) infection. Indeed, significant alterations in redox homeostasis, due to altered antioxidant capacity, have been shown to contribute to the vicious cycle of inflammation and oxidative stress in COVID-19. Furthermore, oxidative stress and the impaired expression of antioxidant enzymes, as well as cytoprotective proteins under the control of the antioxidative response element in the DNA, have been suggested as the molecular basis of long-COVID. Since antioxidants have the ability to counteract the action of oxidants by scavenging reactive oxygen species (ROS) and by inhibiting oxidant-generating enzymes, various antioxidants have been proposed as “anti-SARS-CoV-2 agents”. However, further studies are needed to clarify the role of antioxidants as potential therapeutic strategies for both the prevention and treatment of acute COVID-19, as well as long-COVID.

---

### Guest Editor

Prof. Dr. Marija S. Plješa-Ercegovac  
Institute of Medical and Clinical Biochemistry, Faculty of Medicine,  
University of Belgrade, 11000 Belgrade, Serbia

---

### Deadline for manuscript submissions

20 May 2025



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/166909](https://mdpi.com/si/166909)

*International Journal of  
Molecular Sciences*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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

[ijms](https://www.ijms.com)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



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

[ijms](https://ijms)



## About the Journal

### 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.

---

### 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

---

### 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)