

## Special Issue

# Advanced Research in Immunotoxicity and Oxidative Stress

### Message from the Guest Editor

Concerns about toxicity related to macrophage activation and immune systems are currently increasing, potentially due to foods, food additives, nanomaterials, toxicants, natural compounds, and functional ingredients. Macrophages play a role in the immune response and are primary targets in many diseases. M1 macrophage activation leads to the production of pro-inflammatory cytokines, phagocytosis of microbes, and initiation of an immune response, while M2 macrophages promote wound healing, anti-inflammatory responses, and tissue repair. Maintaining a balance between pro- and anti-inflammatory activation is essential for normal immunologic function. Meanwhile, inflammation can be triggered by oxidative stress, which causes a range of chronic diseases. This Special Issue will focus on toxicity associated with macrophage activation, including pro- and anti-inflammatory responses in diseases, toxicity, health, and the immune system. Studies on oxidative-stress-induced inflammation and related diseases are also encouraged. We welcome studies involving in vitro cell lines, in vivo animal models, mechanisms, and signaling pathways.

### Guest Editor

Prof. Dr. Soo-Jin Choi

Division of Applied Food Science, Major of Food Science & Technology, Seoul Women's University, 621 Hwarang-ro, Nowon-gu, Seoul 01797, Republic of Korea

### Deadline for manuscript submissions

20 November 2025



## International Journal of Molecular Sciences

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/204870](https://mdpi.com/si/204870)

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

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





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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