

## Special Issue

# Natural Compounds for Skeletal Muscle Health and Regeneration

### Message from the Guest Editor

The skeletal muscle system is critical to movement, metabolism, and overall health. However, muscle degeneration and impaired regeneration, whether caused by aging, disease, or injury, present significant healthcare challenges. This Special Issue will delve deeply into the molecular mechanisms by which natural compounds can promote skeletal muscle health and regeneration. We particularly encourage research into the molecular pathways that drive muscle regeneration, regulate protein synthesis, influence mitochondrial function, and remodel the extracellular matrix. Research into bioactive compounds and their effects on key signaling pathways involved in muscle degeneration, inflammation, and repair is greatly appreciated. Contributions that unravel the mechanistic actions of naturally derived molecules in combating muscle-related diseases, such as sarcopenia and atrophy, will be precious.

### Guest Editor

Dr. Khurshid Ahmad

Department of Medical Biotechnology, Yeungnam University,  
Gyeongsan 38541, Republic of Korea

### Deadline for manuscript submissions

20 September 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/217947](https://mdpi.com/si/217947)

*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)