

## Special Issue

# Novel Molecular Approaches to Skeletal Muscle Disease and Disuse 2.0

### Message from the Guest Editor

Muscle-specific diseases with a variety of genetic and acquired causes, as well as aging and metabolic disorders, impair the function of skeletal muscle. This has consequences that extend far beyond muscle itself, with a systemic impact on the quality of life. Exercise can be an important non-pharmacological therapeutic intervention counteracting the effects of disuse; however, mechanistic knowledge on muscle physiopathology can improve its applicability and ensure greater success. With this Special Issue, we aim to illuminate the impacts of omics technologies on the system analysis of muscle disease. We are looking for transcriptomics, proteomics, and metabolomic studies which tackle different aspects of muscle disuse and therapeutic interventions. In addition, we intend to show how new molecular approaches, technologies, and disease models are channeling invaluable information that supports translational research and novel therapeutic approaches. This second Special Issue will host original research articles, as well as reviews and meta-analyses, of omics data on all aspects of muscle disease and disuse.

### Guest Editor

Dr. Marta Murgia

1. Max-Planck-Institute of Biochemistry, 82152 Martinsried, Germany
2. Department of Biomedical Science, University of Padova, 35121 Padua, Italy

### Deadline for manuscript submissions

closed (18 August 2023)



## International Journal of Molecular Sciences

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/117164](https://mdpi.com/si/117164)

*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)