



## Pathogenic Mechanisms of Muscle Diseases

Guest Editors:

**Dr. Gaetano Vattemi**

Department of Neurosciences,  
Biomedicine and Movement  
Sciences, Section of Clinical  
Neurology, University of Verona,  
Piazzale L.A. Scuro 10, 37134  
Verona, Italy

**Dr. Valeria Guglielmi**

Cancer Metabolism and  
Microenvironment Program,  
Sanford Burnham Prebys Medical  
Discovery Institute, La Jolla, CA  
92037, USA

Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editors

Muscle diseases comprise a heterogeneous group of inherited or acquired conditions that affect the muscular system. Although individually rare, these disorders collectively afflict millions of people worldwide. Although significant progress has been made in the identification of causative genes and mutations, the pathogenesis and basic mechanisms of several of muscle diseases remain to be fully elucidated. Muscle biopsy from patients, primary human skeletal muscle tissue cultures, and disease modeling in different organisms have turned out to be powerful and valuable tools to dissect the complex pathophysiology of such diseases, with the ultimate goal of developing novel therapeutic targets.

This Special Issue will focus on studies exploring the cellular and molecular mechanisms underpinning primary muscle diseases, both genetic and acquired, by using in vitro and in vivo experimental models as well as patient-derived material. Original research articles, mini and full reviews, short communications, perspectives, and commentaries are welcome.





an Open Access Journal by MDPI

## 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

## 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.

## 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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI