



Novel Molecular Approaches to Skeletal Muscle Disease and Disuse 2.0

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)

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.





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 and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI