





an Open Access Journal by MDPI

Muscle Atrophy: From Bench to Bedside 2.0

Guest Editor:

Dr. Daniel Taillandier

INRAE, Unité de Nutrition Humaine, Université Clermont Auvergne, UMR 1019, F-63000 Clermont-Ferrand, France

Deadline for manuscript submissions:

31 August 2024

Message from the Guest Editor

The loss of muscle mass is a common adaptation to some physiological situations, but also to many diseases, and is caused by an imbalance of both protein synthesis and protein degradation. Muscle loss contributes to frailty syndrome and is associated with an impaired quality of life and an increased risk of death, regardless of the causal disease. In addition, muscle loss also decreases the efficiency of treatments, such as chemotherapy in cancer patients. Fighting against muscle loss is thus a major goal for ameliorating patients' health. Compelling data have demonstrated that increased proteolysis is often the primary factor leading to muscle wasting. However, muscle atrophy is a highly coordinated process that implies the concomitant regulation of anabolic and catabolic pathways, which suggests that studies ought not to be restricted to to proteolysis. Therefore, a potential strategy to improve patients' condition is to minimize muscle wasting by regulating either proteolysis, protein synthesis or both.

This Special Issue will gather recent insights into the mechanisms driving muscle atrophy, welcoming both original and review articles.













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