

Special Issue

Skeletal Muscle and Metabolic Disorders

Message from the Guest Editors

Skeletal muscle, the largest organ in the body, mainly provides mobility, protects and maintains the skeleton, and controls the body's temperature and glucose homeostasis. It is the core metabolic tissue of the glucose homeostasis regulator and is responsible for approximately 80% of postprandial glucose uptake from the blood circulation. Skeletal muscle is crucial for metabolism, both because of its role in glucose uptake and its importance in exercise and metabolic disorders. In addition, skeletal muscle is recognized as an endocrine and paracrine organ. Muscle-derived secretive proteins, known as myokines, mediate the connections between skeletal muscle mass and other tissues, such as the liver, adipose tissue, pancreas, bone, and cardiovascular system. Decreased levels of physical activity and skeletal muscle loss (sarcopenia) are associated with physical fatigue and impairment during aging, leading to several metabolic diseases. This Special Issue will highlight new research broadly on metabolic disorder associated with skeletal muscle using state-of-the-art techniques. Original research papers and reviews on these and related topics are welcome.

Guest Editors

Dr. Sibghatulla Shaikh

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

Dr. Tatiana Kostrominova

Department of Anatomy and Cell Biology, Indiana University School of
Medicine-Northwest, 3400 Broadway St., Gary, IN 46408-1197, USA

Deadline for manuscript submissions

closed (25 October 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/82520

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)