

Special Issue

Highlights in Pathophysiology of the Musculoskeletal System, 2nd Edition

Message from the Guest Editors

During the past few decades, with the advancement of research and technology, much has been discovered concerning the pathophysiological knowledge of the musculoskeletal system. Novel molecular targets have been identified for therapeutic approaches. Innovative methodologies such as tissue engineering, regenerative medicine, gene therapies, drug delivery systems, microgravity conditions, and nutritional interventions have

facilitated the development of understanding mechanisms

of musculoskeletal disorders such as osteoarthritis, rheumatoid arthritis, sarcopenia, muscle wasting, osteoporosis, bone necrosis, and many others.

In this Special Issue, we focus our attention on the latest discoveries and developments in musculoskeletal system

pathophysiology at a molecular level and provide a comprehensive update on the literature accessible to scientists from the field.

Guest Editors

Dr. Marta Anna Szychlińska

Dr. Rosario Barone

Dr. Giovanna Calabrese

Deadline for manuscript submissions

closed (20 April 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/132081

*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)