

Special Issue

Bone Microenvironment and Bone Metastasis

Message from the Guest Editor

The aim of this Special Issue is to highlight recent advances in understanding the bone microenvironment and bone metastasis through the lens of molecular and cellular mechanisms. Bone metastasis remains a major clinical challenge, particularly in patients with breast, prostate, and lung cancers. These tumor cells colonize and modify the bone microenvironment (comprising osteoblasts, osteoclasts, mesenchymal stem cells, immune cells, and adipocytes), disrupting bone homeostasis and promoting disease progression. We encourage the submission of original research and reviews that provide new insights into the molecular pathways, signaling mechanisms, and gene or protein interactions that govern tumor–bone interactions, metastatic colonization, resistance to therapy, or bone remodeling in the context of cancer. Clinical or *in vivo/in vitro* model studies are welcomed only if they are accompanied by biomolecular analyses that elucidate underlying mechanisms. Studies that integrate molecular biology with well-designed models or patient-derived data are highly encouraged, as they offer translational relevance and mechanistic depth.

Guest Editor

Dr. Cristina Sanchez de Diego

Microtechnology, Medicine and Biology (MMB) Laboratory, Wisconsin Institutes for Medical Research, University of Wisconsin, Madison, WI 53705, USA

Deadline for manuscript submissions

30 September 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/237582

*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/](https://mdpi.com/journal/ijms)

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)