

Special Issue

The Role of Glycosaminoglycans in Human Diseases

Message from the Guest Editor

Glycosaminoglycans are one of the most important components of the extracellular matrix. As modulators of cell signaling, glycosaminoglycans are involved in the regulation of several processes important for the development and homeostasis of bone tissues, including proliferation, differentiation, adhesion, and migration of cells. Exploiting different aspects of glycosaminoglycan biology holds great promise for the treatment of various human diseases.

We are pleased to publish original scientific papers or reviews that address the role of glycosaminoglycans, enzymes for glycosaminoglycan biosynthesis, modification, and degradation, and cell surface receptors for glycosaminoglycans in the pathogenesis of human diseases including inflammatory diseases, infectious diseases and cancer. Scientific papers dealing with the development of novel synthetic derivatives or therapeutics based on glycosaminoglycans and related factors for the treatment of either on experimental models (cell cultures, animal preparations, humans) with biomolecular experiments are also welcome. Purely clinical studies on the topic will not be suitable for this special issue.

Guest Editor

Dr. Darko Kero

Graduate Study of Dental Medicine, School of Medicine, University of Split, Šoltanska 2, HR-21000 Split, Croatia

Deadline for manuscript submissions

closed (20 August 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/173330

*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)