

Special Issue

Biomimetic Materials Applied in the Analytical and Biomedical Fields

Message from the Guest Editors

Biomimetic materials are sophisticated artificial materials replicating a natural material or function in order to address a critical challenge faced by the human being. The design and practical insertion of biomimetic materials require an interdisciplinary approach, being at the intersecting areas of many domains: biology, medicine, engineering, chemistry, technology. Most of these innovative materials aim to tackle mainly challenges of the analytical and biomedical fields. This Special Issue on biomimetic materials applied in the analytical and biomedical fields calls for contributions from experts working in all areas of biomimetic materials with applications in the analytical and biomedical fields, and welcomes original research papers concerning the design, synthesis, optimization and applications of these materials. Also, occasionally we need to look back and highlight past achievements into review articles in order to inspire and promote new research directions.

Guest Editors

Dr. Iacob Bogdan-Cezar

Analytical Chemistry Department, Faculty of Pharmacy, Iuliu Hațieganu University of Medicine and Pharmacy, 400349 Cluj-Napoca, Romania

Dr. Ede Bodoki

Analytical Chemistry Department, Faculty of Pharmacy, Iuliu Hațieganu University of Medicine and Pharmacy, 400349 Cluj-Napoca, Romania

Deadline for manuscript submissions

closed (20 December 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/154493

*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)