

Special Issue

Molecular Studies of Bioactive Compounds and Their Therapeutic Potential

Message from the Guest Editors

The growing interest in bioactive compounds and their molecular mechanisms of action, which is increasing annually, reflects their importance in medicine, nutrition, and biotechnology. Whether these molecules are derived from plants, algae, microorganisms, or synthetic sources, they exhibit a wide range of biological activities, including antioxidant, anti-inflammatory, antimicrobial, anticancer, and neuroprotective effects. Their structural complexity represents challenges for molecular characterisation and understanding of the acting mechanisms. This Special Issue focuses on molecular-level research of bioactive compounds and welcomes studies on structural elucidation, molecular targets, signalling pathways, investigations using advanced analytical techniques, omics approaches, molecular modelling, and computational methods. Both original research articles and reviews are encouraged. The aim of this Special Issue is to highlight recent advances in molecular studies of bioactive compounds and to provide an interdisciplinary platform for translating molecular insights into diverse functional applications.

Guest Editors

Dr. Sanja Radman

Department of Food Technology and Biotechnology, Faculty of Chemistry and Technology, University of Split, Ruđera Boškovića 35, 21000 Split, Croatia

Dr. Ivana Carev

Department of Analytical and Environmental Chemistry, Faculty of Chemistry and Technology, University of Split, Ruđera Boškovića 35, 21000 Split, Croatia

Deadline for manuscript submissions

31 March 2026



Current Issues in Molecular Biology

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 3.7
Indexed in PubMed



mdpi.com/si/254295

Current Issues in Molecular Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cimb@mdpi.com

[mdpi.com/journal/
cimb](https://mdpi.com/journal/cimb)





Current Issues in Molecular Biology

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 3.7
Indexed in PubMed



[mdpi.com/journal/
cimb](https://mdpi.com/journal/cimb)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Madhav Bhatia

Department of Pathology and Biomedical Science, University of Otago,
Christchurch, 2 Riccarton Avenue, P.O. Box 4345, Christchurch 8140,
New Zealand

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PMC,
PubMed, Embase, CAPus / SciFinder, FSTA, AGRIS, and
other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 17.8 days after
submission; acceptance to publication is undertaken in 2.7
days (median values for papers published in this journal in
the first half of 2025).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and
reviewer names are published annually in the journal.