

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.

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Deadline for manuscript submissions

30 September 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
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Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

Recognition of Reviewers:

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