

Special Issue

Molecular Characteristics and Diagnostic Biomarkers in Tumors

Message from the Guest Editors

Tumor progression is driven by diverse molecular alterations. Advances in multi-omic technologies have revealed substantial biological heterogeneity across malignancies, yielding critical insights into tumorigenesis and accelerating the discovery of diagnostic and prognostic biomarkers. Despite this progress, translating these findings into clinical practice remains challenging. Further research must clarify how specific molecular profiles distinguish tumor subtypes, predict disease behavior, and guide therapy. Analyzing tumor tissues, liquid biopsies, and emerging multiplex platforms is essential to improve early detection and treatment monitoring. This Special Issue welcomes original research and reviews on tumor molecular characteristics and diagnostic biomarkers, including:

- Genomic, epigenetic, transcriptomic, and proteomic alterations
- Molecular classification and its clinical relevance
- Discovery and validation of tissue-based and liquid biopsy biomarkers
- Tumor microenvironment and immune-related diagnostic markers
- Emerging technologies for molecular diagnostics

We aim to highlight current advancements and promote the integration of molecular insights into precision oncology.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Current Issues in Molecular Biology (CIMB, ISSN 1467-3045) is an international, peer-reviewed, open access journal established in 1999 and published monthly online by MDPI (from Volume 43 Issue 1-2021). *CIMB* publishes original research articles and comprehensive reviews on emerging and significant topics in molecular biology, covering all aspects of molecular biology and related interdisciplinary fields. We invite you to read recent articles published in *CIMB* and consider submitting your next research to the journal, particularly studies exploring mechanistic insights, translational applications, and interdisciplinary approaches across molecular biology.

Editor-in-Chief

Prof. Dr. Madhav Bhatia

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