

Special Issue

Epigenetics and Chromatin Remodeling in Cancer

Message from the Guest Editors

Dear colleagues, Epigenetic modifications and chromatin remodeling play central roles in cancer by dynamically regulating gene expression without altering DNA sequences. Aberrant DNA methylation, histone modifications, and chromatin accessibility changes can activate oncogenes or silence tumor suppressors, contributing to tumor initiation and progression. This Special Issue explores recent advances in understanding the molecular mechanisms underlying epigenetic dysregulation and chromatin remodeling in cancer. We highlight novel technologies for detecting epigenetic alterations in ctDNA, which offer promising non-invasive cancer biomarkers. Additionally, we discuss the role of key chromatin remodelers, histone-modifying enzymes, and ncRNAs in shaping the cancer epigenome. The Special Issue also covers emerging therapeutic strategies, including epigenetic inhibitors and targeted chromatin-modifying drugs. By integrating findings from epigenetics, functional genomics, and precision oncology, this collection aims to provide a comprehensive perspective on chromatin dynamics in cancer and their potential for clinical applications.

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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.

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