

Special Issue

Epigenetics and Chromatin Remodeling in Cancer

Message from the Guest Editor

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.

Guest Editor

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Message from the Editor-in-Chief

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