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Epigenetic Modifications for Cancer Therapy

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Message from the Guest Editor

Dear Colleagues ,

Cancer, a consequence of accumulative genetic mutations and epigenetic alterations, remains a formidable global human health threat due to its incurable nature. Over the past two decades, our understanding of mechanisms and roles of epigenetics in cancer initiation, progression, and metastasis has significantly expanded. Epigenetics, including DNA and RNA methylation, histone post-translational modifications, chromatin remodelers, and non-coding RNA regulation, play critical roles in many various cancer types by regulating the expression and activity of many oncogenes and tumor suppressors without DNA sequence alteration. Given the importance of epigenetic modifications in cancers, epigenetic therapy has become an attractive strategy.

The Special Issue aims to focus on the latest advancements in the field of novel epigenetic therapies and epigenetic modifications for cancer, especially in metabolic reprogramming and the immune system. We invite submissions of original research articles, reviews, and perspectives on all relevant topics.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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