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Epigenetic Markers of Cancer Development and Progression

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Message from the Guest Editors

Epigenetic mechanisms are essential for normal human development and the maintenance of tissue-specific gene expression in mammals by controlling DNA methylation profiles, non-coding RNA expression, and histone modifications. In the context of cancer, gene expression reprogramming and malignant transformation can occur when epigenetic processes and genetic alterations are dysregulated. "Nonmutational epigenetic reprogramming" is recognized as one of the hallmarks of cancer, being fundamental for cancer cell transformation.

High-throughput techniques have made it easier to understand the significance of epigenetic alterations from the early stages of cancer to potential anti-tumor therapies. A deeper understanding of the patterns of epigenetic modifications and their corresponding changes in cancer will improve our understanding of malignant tumor biology and also assist in developing better treatment strategies. A combination of therapies, including an epigenetic approach, may be effective against cancer in the future.

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Special Issue



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