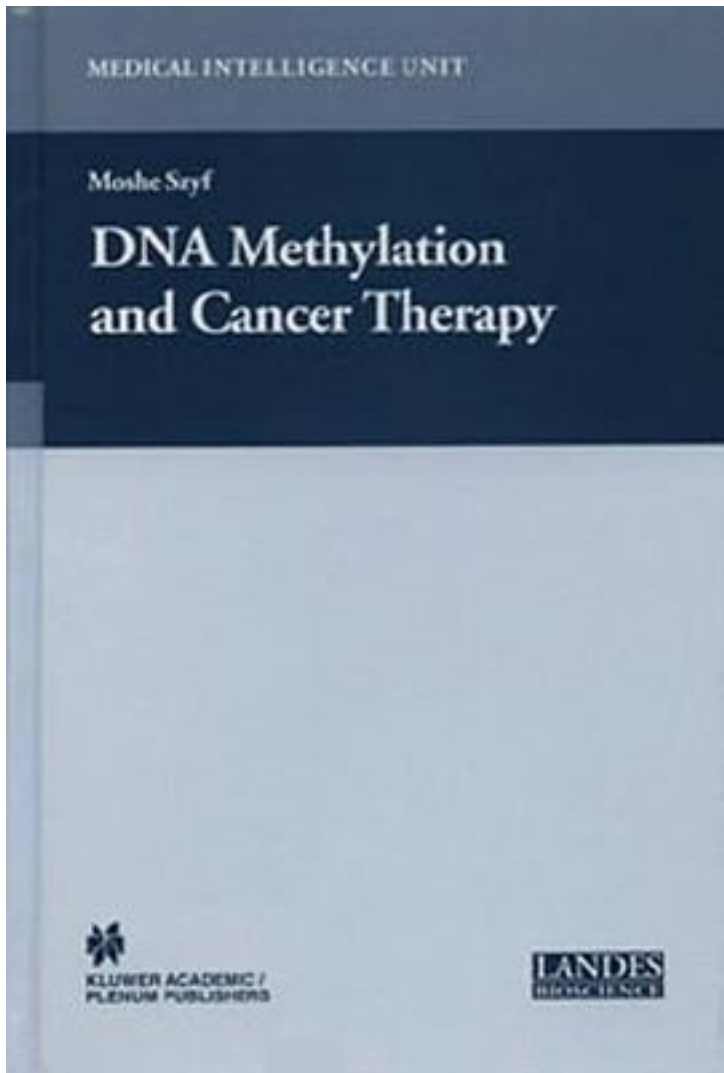


DNA Methylation and Cancer Therapy (Medical Intelligence Unit)



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著者: Moshe Szyf

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This book provides a comprehensive analysis of implications of DNA methylation on cancer diagnosis and cancer therapy. This unique volume focuses on cancer therapy by thoroughly dissecting the basic principles of DNA methylation in cancer from molecular mechanisms to clinical trials. The chapters are written by leading experts in the field and are designed to provide the reader with the necessary background to evaluate critically the potential of DNA methylation in cancer therapy. The key features of this book include discussions of the following topics: the molecular machinery responsible for DNA methylation and their impact on gene expression and tumorigenesis; the emerging relation between DNA methylation and chromatin modifying proteins; how the relationship between DNA methylation and chromatin modifying proteins might clarify the mechanisms and therapeutic implications of aberrant DNA methylation in cancer; illustrations of the diagnostic potential of methylation in cancer and novel tools for using methylation profiling of cancers; the therapeutic potential of the DNA methylation machinery and novel attempts to target the DNA methylation enzymes in anticancer therapy. This book will be of interest to a wide audience, including oncologists, researchers and clinicians, and graduate students in the fields of oncology, molecular biology, and cancer therapy, as well as researchers and decision-makers in industry focusing on anticancer drugs and diagnosis.

作者介绍:

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