

DNA METHYLATION

Approaches, Methods, and Applications

A guide to understanding the complex regulatory roles of DNA methylation, this volume describes the relation that this biological mechanism has to gene silencing in disease and explores its promising role in treating cancer. **DNA Methylation: Approaches, Methods, and Applications** considers research, clinical, and industry perspectives in this growing field, and by synthesizing previously scattered literature, it offers the subject's first organized and cohesive resource and bibliography.

Features

- Discusses the impact of DNA methylation on human health and disease
- Includes concepts, experimental models, and clinical uses of demethylating agents
- Presents the most current research on the impact of DNA methylation on cancer
- Features the work of the foremost leaders in the field

The book is a state-of-the-art reference for understanding the role DNA methylation plays in human disease, particularly cancer. Written by leaders in the field, this exceptional compilation of articles outlines the best techniques to address questions concerning the cytosine methylation status of genomic DNA. It includes concepts, experimental models, and clinical uses of demethylating agents. The book also provides a balance between articles clarifying methodological details and general review chapters that offer broad biological perspectives on DNA methylation.

Covering fundamental theory, technologies, and applications, **DNA Methylation: Approaches, Methods, and Applications** presents the most current research on using DNA methylation to decipher the pathways involved in human disease. This is an invaluable handbook for researchers and clinicians interested in genetics and molecular biology, particularly epigenetic therapies and gene silencing.

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