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Abstract. DNA methylation patterns are frequently altered in cancer cells as compared to normal cells. A large body of research associates these DNA methylation aberrations with cancer initiation and progression. Moreover, cancer cells seem to depend upon these aberrant DNA methylation profiles to thrive. Finally, DNA methylation modifications are reversible, highlighting the potential to target the global methylation patterns for cancer therapy. Compared to gene expression microarrays or proteomic approaches, the application

of DNA methylation patterns in cancer diagnostics offers several advantages. DNA is a very stable molecule and the assays for individual markers are universal, i.e. independent of tumour type.

DNA methylation cancer-biomarkers may be useful for cancer treatment, particularly since they are chemically stable and since cancer-associated changes in methylation typically precedes tumor growth. DNA methylation markers could improve diagnosis and treatment and might even be used for screening in the future.

Targeting DNA methylation for cancer ther-

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DNA Methylation and Cancer Therapy (Medical Intelligence ...

Low-dose DNA demethylating therapy induces reprogramming ...

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Circulating DNA Methylation Biomarkers for Diagnosis ...

Hormone therapy, DNA methylation and colon cancer

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Preclinical and Clinical Studies on 5-Aza-2'-Deoxycytidine, a Potent Inhibitor of DNA Methylation, in Cancer Therapy. Richard L. Momparler. Pages 205-217. *Anti-cancer Gene Therapy by in Vivo DNA Electrotransfer of MBD2 Antisense*. Pascal Bigey, Daniel Scherman. Pages 218-229. *Epilogue*. Moshe Szyf. Pages 230-233.

In summary, the model presented here which suggests that DNA methylation reaction is an equilibrium whose direction is dependent on chromatin structure is consistent with the principal hallmarks of DNA methylation in cancer. 6. DNA methylation

and anticancer therapy. Inhibitors of DNMT1 were the first goal of anticancer therapy targeting DNA methylation. The accepted objective of most of the current attempts at DNA methyltransferase inhibitors is to identify potent small-molecule inhibitors ...

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The role of DNA-demethylating agents in cancer therapy ...

On the basis of technology, the Epigenetics Market is segmented into DNA methylation, histone modifications, and other technologies (includes non-coding RNA and chromatin remodeling). The DNA ...

Methylation and ovarian cancer: Can DNA methylation be of ...

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DNA methylation plays a crucial role in the pathogenesis of various diseases, including colorectal cancer (CRC). However, the global and temporal DNA methylation pattern during initiation and progression of colitis-associated cancer (CAC) are still unknown, including the potential therapeutic strategy of targeting methylation for CAC.

Cancer epigenetics is the study of epige-

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DNA methylation and cancer therapy: new developments and ...

Epigenetic reprogramming using DNA demethylating drugs is a promising approach for cancer therapy, but its efficacy is highly dependent on the dosing regimen. Low-dose treatment for a prolonged period shows a remarkable therapeutic efficacy, despite its small demethylating effect.

The potent and specific inhibitor of DNA methylation, 5-aza-2'-deoxycytidine (5-AZA-CdR) has been demonstrated to reactivate the expression most of these "malignancy" suppressor genes in human tumor cell lines.

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Session 2: Circulating DNA Methylation Biomarkers for Diagnosis, Prognosis and Treatment Selection 8:10 AM - 9:10 AM Moderator: Gerhardt Attard, MD, PhD

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