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In a series studying the fecal DNA of

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patients with colorectal cancer and adenomas as well as samples from normal individuals revealed a higher rate of methylation of the target genes studied in the patients with cancer. 77 In fact, of the three genes studied, over 96% of patients with cancer and 81% of patients with precancerous lesions had at ...

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DNA Methylation: Its Role in Cancer Development and Therapy

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.

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6. DNA methylation and anticancer therapy. Inhibitors of DNMT1 were the first goal of anticancer therapy targeting DNA ...

DNA methylation and cancer therapy - ScienceDirect

Moreover, unlike genetic alterations, DNA methylation is reversible what

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makes it extremely interesting for therapy approaches. The importance of DNA methylation alterations in tumorigenesis encourages us to decode the human epigenome. Different DNA methylome mapping techniques are indispensable to realize this project in the future.

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**DNA methylation and cancer -
PubMed**

The first reports on DNA methylation changes in cancer described global loss of methylation, which has been suggested to drive tumorigenesis through activation of oncogenic proteins or induction of chromosomal instability. In this context, reducing DNA

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methylation was viewed as a tumor-promoting event rather than a promising cancer therapy.

DNA Methylation as a Therapeutic Target in Cancer ...

DNA methylation and cancer therapy by Moshe Szyf, Sep 16, 2008, Springer edition, paperback

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DNA Methylation and Cancer Therapy (Sep 16, 2008 edition ...

Cancer initiation and progression is an accumulation of genetic and epigenetic modifications. DNA methylation is a common epigenetic modification that regulates gene expression, and aberrant DNA methylation patterns are

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considered a hallmark of cancer. The human diet is a source of micronutrients, bioactive [...]

Cells | Special Issue : DNA Methylation and Its ...

The main epigenetic modification is DNA methylation, and patterns of aberrant DNA methylation are now recognized to

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be a common hallmark of human tumors. One of the most characteristic features is the inactivation of tumor-suppressor genes by CpG-island hypermethylation of the CpG islands located in their promoter regions.

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

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Impact on DNA methylation in cancer prevention and therapy by bioactive dietary components Curr Med Chem . 2010;17(20):2141-51. doi: 10.2174/092986710791299966.

Impact on DNA methylation in cancer prevention and therapy ...
Regarding the mechanism by which DNA

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demethylating therapy inhibits cancer cell proliferation, it is considered that multiple tumor-suppressor genes silenced by aberrant DNA methylation are reactivated simultaneously by DNA demethylation.

Cancer Epigenetics: Aberrant DNA Methylation in Cancer ...

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Abstract Two nucleoside inhibitors of DNA methylation, azacitidine and decitabine, are now standard of care for the treatment of the myelodysplastic syndrome, a deadly form of leukemia. These old drugs, developed as cytotoxic agents and nearly abandoned decades ago were resurrected by the renewed interest in DNA methylation.

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Targeting DNA Methylation | Clinical Cancer Research

DNA Methylation and Cancer Therapy
(Medical Intelligence Unit) Hardcover -
January 20, 2005 by Moshe Szyf (Author)
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DNA Methylation and Cancer Therapy (Medical Intelligence ...

DNA methylation plays a crucial role in the pathogenesis of various diseases, including colorectal cancer (CRC).

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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.

Temporal DNA methylation pattern and targeted therapy in ...

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For this reason, targeting the mechanisms regulating DNA methylation has been considered as a potential avenue for cancer treatment, and very promising results have been obtained when using the DNA...

Regulation of DNA methylation by ERR α reveals a role for ...

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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. Anticancer Gene Therapy by in Vivo DNA Electrotransfer of MBD2 Antisense. Pascal Bigey, Daniel Scherman. Pages 218-229. Epilogue. Moshe Szyf. Pages 230-233.

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DNA Methylation and Cancer Therapy | SpringerLink

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

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methylation markers could improve diagnosis and treatment and might even be used for screening in the future.

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

Compared to gene expression microarrays or proteomic approaches, the application of DNA methylation

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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 in cancer development, diagnosis and ...

The epigenetic silencing of miRNA genes

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by aberrant DNA methylation is a frequent event in cancer cells; almost one third of miRNA promoters active in normal mammary cells were found hypermethylated in breast cancer cells - that is a several fold greater proportion than is usually observed for protein coding genes.

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Cancer epigenetics - Wikipedia

DNA methylation has long been regarded as a hallmark of cancer and hold great promises for early-stage cancer detection. Recent years have seen tremendous advancement in methylation-based cancer biomarker discovery and many technologies have been developed to detect these

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DNA Methylation-Based Point-of-Care Cancer Detection ...

This epigenetics sketch was created by Armando Hasudungan, in collaboration with Professor Susan Clark and Dr Kate Patterson at the Garvan Institute of Medic...

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