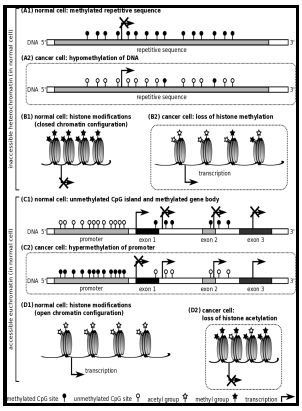
Cancer epigenetics

CRC Press/Taylor & Francis Group - Cancer epigenetics reaches mainstream oncology



Description: -
-
Histones -- metabolism
Epigenesis, Genetic
DNA Methylation
Neoplasms -- genetics
Post-translational modification
DNA -- Methylation
Epigenesis
Cancer -- Genetic aspectsCancer epigenetics
-Cancer epigenetics
Notes: Includes bibliographical references and index.
This edition was published in 2009

Filesize: 67.74 MB

Tags: #Cancer #Epigenetics

Cancer Epigenetics

More than 90% of prostate cancers show by of the gene , which protects cells from genomic damage that is caused by different oxidants or. Epigenetics researchers like Bernstein want to understand how these spools are unraveled or rewrapped in a precisely orchestrated way that allows genes to be accessed and turned on.

Center for Functional Cancer Epigenetics

The epigenetic silencing of miRNA genes 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. In primary tumor and samples, hypermethylation of both and serves as the marker for increased risk of faster cancer relapse and higher death rate of patients.

Cancer epigenetics reaches mainstream oncology

Thus, DNA hypomethylation leads to aberrant activation of genes and non-coding regions through a variety of mechanisms that contributes to cancer development and progression.

Epigenetics: How It Works And What It Means for Cancer Research

Brown says adding epigenetic drugs to treatment appears to be making the leukemia cells respond to subsequent treatment with anti-cancer drugs.

Are Genes Destiny? Epigenetics and Cancer

CG island methylation changes near the GSTP1 gene in prostatic intraepithelial neoplasia. Reactivation of such silenced genes using DNMT inhibitors is accompanied by a loss of nucleosomes from the promoter region.

Epigenetics in cancer

In MMEJ repair of a double-strand break, an homology of 5-25 complementary base pairs between both paired strands is sufficient to align the strands, but mismatched ends flaps are usually present.

Related Books

- Probleme der Bevölkerungsballung - aufgezeigt am Beispiel des Raumes Nürnberg-Fürth.
- English sportsman in the western prairies
- Transcending self-interest - psychological explorations of the quiet ego
- Griekse archeologie.
- Production of synthetic liquid fuels for Ontario. - Prepared by Chemical Engineering Research Consul