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Basic Study

Aging related methylation influences the gene expression of key control genes in colorectal cancer and adenoma linked

Galamb O *et al.* Aging related methylation of colorectal cancer linked genes

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[Aging and DNA methylation - NCBI - National Institutes of Health](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4311512/)

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31 Jan 2015 ... The earliest studies, which related DNA methylation changes to the aging ... DNA methylation in a promoter leads to decreased gene expression and ... (PcG) target genes is emerging from both aging- and cancer-related ... linked to transcriptional upregulation of key enzymes was linked to atherosclerosis.

[Epigenetic regulation of gene expression: how the genome - Nature](http://www.nature.com/ng/journal/v33/n3s/full/ng1089.html)

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External influences on epigenetic processes are seen in the effects of diet on In cancer cells, methylation of CpG islands is known to contribute to gene silencing. a function in the brain that is not related to the repression of methylated genes. is controlled by DNA methylation, as well as by expression of VRN2—a key ...

[DNA methylation - Wikipedia](https://en.wikipedia.org/wiki/DNA_methylation)

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Similarly, among 119 cases of mismatch repair-deficient colorectal cancers that lacked DNA repair gene PMS2 expression, 6 had a mutation in the PMS2 gene, ...

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David Feldman, J. Wesley Pike, John S. Adams - 2011 - Medical
Intake levels of folate and of other methyl-related nutrients as well as ... The risk of colorectal adenoma may be significantly modified by folate status [152]. ... role was suggested for folate in colorectal cancer, with a protective influence when ingesting ... The latter regulate gene expression by DNA methylation and histone ...

[Cancer epigenetics - Wikipedia](https://en.wikipedia.org/wiki/Cancer_epigenetics)

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Cancer epigenetics is the study of epigenetic modifications to the genome of cancer cells that

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[HTML] Epigenetic regulation of gene expression: how the genome integrates intrinsic and environmental signals

[HTML] nature.com

R Jaenisch, A Bird - Nature genetics, 2003 - nature.com

... but becomes progressively detectable with age in normal tissues 2 . Because aging is thought ... be one of the most important risk factors for cancer, an age-related predisposition to ... the activity of enzymes supplying methyl groups for the various cellular methylation processes can ...

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CpG island methylator phenotype in cancer

[HTML] nature.com

JP Issa - Nature Reviews Cancer, 2004 - nature.com

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被引用次数: 884 相关文章 所有 11 个版本 引用 保存

Molecular genetics of colorectal cancer

[HTML] annualreviews.org

ER Fearon - Annual Review of Pathology: Mechanisms of ..., 2011 - annualreviews.org

... family and a member of the low-density lipoprotein receptor-related protein (LRP ... associations between methylation of the MLH1 gene promoter region and methylation of many other gene sequences, collectively termed the CpG island hypermethylation phenotype (CIMP ...

被引用次数: 741 相关文章 所有 3 个版本 引用 保存

[HTML] The epigenomics of cancer

[HTML] sciencedirect.com

PA Jones, SB Baylin - Cell, 2007 - Elsevier

... are observed on a genome-wide scale (Figure 1). For example, DNA methylation and histone ... in Figure 2, in which risk factors for common cancers such as aging (Sharpless and ... A series of genes, all documented to exhibit DNA hypermethylation in preinvasive stages of colon ...

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Epigenetic changes in colorectal cancer

Y Kondo, JPJ Issa - Cancer and Metastasis Reviews, 2004 - Springer

... using sensitive methods, this type of methylation can also be found in aging colon, albeit at ... It is proposed that, initially, age-related methylation changes the physiology of individual colon stem cells ... Oba Toyota M, Hamilton SR, Sinicropone EA, Issa JP: Aberrant methylation of the