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DNA Methylation and Colorectal Cancer

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Dec 01, 2014 · **Colorectal cancer** (CRC) is one of the major cancers in the world and second death-causing **cancer** in the US. CRC development involves genetic and epigenetic alterations. Changes in DNA **methylation** status are believed to be involved at different stages of CRC. Promoter silencing via DNA **methylation** ...

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Author: Hassan Ashktorab, Hassan Brim

Publish Year: 2014

A Novel Prognostic DNA Methylation Panel for Colorectal Cancer

https://www.researchgate.net/publication/335951329_A_Novel_Prognostic_DNA_Methylation...

A Novel Prognostic DNA Methylation Panel for Colorectal Cancer. ... determined that the novel four-gene **methylation panel**, ... Our cohort included 151 paired tumor tissue and adjacent nontumor ...

DNA Methylation Combinations in Adjacent Normal Colon ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4376718>

DNA Methylation Combinations in Adjacent Normal Colon Tissue Predict Cancer Recurrence: Evidence from a Clinical Cohort Study Jen Chun Kuan , 1 Chang Chieh Wu , 2 Chien An Sun , 3 Chi Ming Chu , 4 Fu Gong Lin , 4 Chih Hsiung Hsu , 5 Po-Chieh Kan , 1 Shih-Chieh Lin , 1 Tsan Yang , 6 and Yu-Ching Chou 1, 4, *

Cited by: 7

Author: Jen Chun Kuan, Chang Chieh Wu, Chien An ...

Publish Year: 2015

Analysis of the clinical significance of DNA methylation ...

<https://clinicalepigeneticsjournal.biomedcentral.com/articles/10.1186/s13148-019-0747-5> ▼

Nov 01, 2019 · Aberrant DNA **methylation** is involved in gastric carcinogenesis and may serve as a useful biomarker in the diagnosis and detection of gastric **cancer** (GC) recurrence. A total of 157 patients who received surgery for GC were enrolled in the present study. A genome-wide **methylation** analysis was performed in tumor and **adjacent normal tissues** for the discovery set of 16 GC patients; the top three ...

Author: Wen-Liang Fang, Wen-Liang Fang, Ming...

Publish Year: 2019

Roadmap of DNA methylation in breast cancer identifies ...

<https://bmccancer.biomedcentral.com/articles/10.1186/s12885-019-5403-0> ▼

Mar 12, 2019 · Breast **cancer** is a highly heterogeneous disease resulting in diverse clinical behaviours and therapeutic responses. DNA **methylation** is a major epigenetic alteration that is commonly perturbed in cancers. The aim of this study is to characterize the relationship between DNA **methylation** and

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 51752

Manuscript Type: ORIGINAL ARTICLE

Retrospective Cohort Study

Novel methylation panel genes in adjacent normal tissues predicts poor prognosis of colorectal cancer in Taiwan

Hsu CH *et al.* Novel multiple gene methylation combined and CRC

Chih-Hsiung Hsu, Cheng-Wen Hsiao, Chien-An Sun, Wen-Chih Wu, Tsan Yang, Je-Ming Hu, Chi-Hua Huang, Yu-Chan Liao, Chao-Yang Chen, Fu-Huang Lin, Yu-Ching Chou

Abstract

BACKGROUND

It is evident that current clinical criteria are suboptimal to accurately estimate patient prognosis. Studies have identified epigenetic aberrant changes as novel prognostic for colorectal cancer (CRC).

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DNA Methylation and Colorectal Cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4286876>

Dec 01, 2014 · Applications of DNA methylation as biomarkers in Colorectal Cancer. CIMP1 has a good prognosis, whereas CIMP2 is associated with poor prognosis [39]. CIMP status of cancers has been assessed as a predictive marker for 5-FU responsiveness [40]. DNA hypermethylation causes tumor suppressor genes such as P16, VHL...

Cited by: 24

Author: Hassan Ashktorab, Hassan Brim

Publish Year: 2014

A Novel Prognostic DNA Methylation Panel for Colorectal ...

<https://www.mdpi.com/1422-0067/20/19/4672/htm> ▼

Furthermore, the Kaplan–Meier survival analysis determined the effect of the four-gene methylation panel on survival, revealing that patients who exhibited methylation for all four genes had a worse 5-year overall survival ($p = 0.0213$) and disease-free survival ($p = 0.0134$) than those without methylation of any of the four genes (Figure 3a).

Author: Hsin-Hua Chung, Chih-Chi Kuo, Chen...

Publish Year: 2019

DNA Methylation Combinations in Adjacent Normal Colon ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4376718>

When analyzing normal tissues, we observed that the patients with higher methylation status of the tumor suppressor genes were significantly associated with a higher proportion of CRC recurrence than patients with lower methylation status were (55.3% vs. 37.7%, $p = 0.012$).

Cited by: 7

Author: Jen Chun Kuan, Chang Chieh Wu, Chien ...

Publish Year: 2015

A Novel Prognostic DNA Methylation Panel for Colorectal ...

https://www.researchgate.net/publication/335951329_A_Novel_Prognostic_DNA_Methylation...

The Efficacy of a Novel DNA Methylation Panel for Predicting the Prognosis of CRC We previously demonstrated that NKX6.1 was a novel prognostic biomarker for CRC and that the

Analysis of the clinical significance of DNA methylation ...

<https://clinicalepigeneticsjournal.biomedcentral.com/articles/10.1186/s13148-019-0747-5> ▼

Nov 01, 2019 · Despite the high incidence of positive methylation in MSI+ or EBV+ GC with good prognosis, it is unlikely that the methylation status of a specific DNA methylation marker is related