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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 67139

Manuscript Type: ORIGINAL ARTICLE

Retrospective Cohort Study

MTNR1B polymorphisms with *CDKN2A* and *MGMT* methylation status are associated with poor prognosis of colorectal cancer in Taiwan

Lee CC *et al.* *MTNR1B* polymorphisms with *CDKN2A* and *MGMT* methylation

Chia-Cheng Lee, Yu-Cheng Kuo, Je-Ming Hu, Pi-Kai Chang, Chien-An Sun, Tsan Yang, Chuan-Wang Li, ¹Chao-Yang Chen, Fu-Huang Lin, Chih-Hsiung Hsu, Yu-Ching Chou

Abstract

BACKGROUND

Identifying novel colorectal cancer (CRC) prognostic biomarkers is crucial to helping clinicians make appropriate therapy decisions. Melatonin plays a major role in

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CDKN2A cyclin dependent kinase inhibitor 2A [(human)]

<https://www.ncbi.nlm.nih.gov/gene/1029>

the joint presence of **CDKN2A methylation** and KRAS mutations independently predicted recurrence of **cancer** and was **associated with poor** overall and **cancer**-specific survival. The genes c-Myc, p21, and p16 were correlated with the **prognosis** of triple-negative breast **cancer**

(PDF) Multiple gene promoter methylation and clinical ...

<https://www.researchgate.net/publication/338508202...>

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- What is the prognostic role of CDKN2A RNA expression?
- How is CDKN2A gene methylation related to brain arteriovenous malformations?
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- Is the p16INK4a gene associated with lung cancer?

Feedback

Promoter methylation status of hMLH1, hMSH2, and MGMT ...

<https://www.semanticscholar.org/paper/Promoter...>

PurposeEpigenetic silencing of the DNA mismatch repair genes has been poorly described in **colorectal** carcinomas showing the classic adenoma–carcinoma pathway of carcinogenesis. The aim of this study was to investigate the **methylation status** of MutL homolog 1 (hMLH1), MutS homolog 2 (hMSH2), and O-6-methylguanine-DNA methyltransferase (**MGMT**) in a series **of colorectal** carcinomas that contain ...

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CDKN2A – Snipper Report

www-personal.umich.edu/~welchr/snipper_supplemental/genes/CDKN2A.html

Hypermethylation of the **CDKN2A** gene is **associated with colorectal cancer** [PMID 12792748]
Inactivation of p16INK4A in intestinal and diffuse subtypes of gastric adenocarcinoma showed distinct carcinogenic pathways and the process of **methylation** of the **CDKN2A** promoter seems to depend on the H. pylori genotype depending on the tumor location [PMID 20402675]

Entrez Gene ID: 1029 **Full gene name:** cyclin-dependent kinase inhibitor 2A
Location: 9p21 **Type:** protein-coding

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