

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 46843

Manuscript Type: REVIEW

Role of epigenetics in the transformation of inflammation into colorectal cancer

Yang ZH *et al.* Epigenetics and colorectal cancer

Zhen-Hua Yang, Yan-Qi Dang, Guang Ji

Abstract

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2017年9月26日 - Nutrition is a factor involved in **inflammation** and a modulator of risk toward **Epigenetic changes** have been related **to cancer** (breast, **colon**, lung, and Nurses are at the junction **to transform** health care using genetics and ...



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Epigenetics and Colorectal Cancer - PubMed Central (PMC)

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Colorectal cancer is a leading cause of **cancer** deaths in the world. It results from an accumulation of genetic and **epigenetic** changes in **colon** epithelial cells that **transforms** them into adenocarcinomas. There have been major advances in our understanding of **cancer epigenetics** over the last decade, particularly regarding aberrant DNA methylation.

The role of epigenetics in colorectal cancer | Request PDF

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To get insight into the **role** of this signaling pathway in **colorectal cancer** (CRC), we have characterized the transcriptional and **epigenetic** landscapes of the PTGS pathway genes in normal and ...

Epigenetics in cancer - PubMed Central (PMC)

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Sep 13, 2009 · Such findings support the hypothesis of **epigenetics** playing a central **role** in early neoplasia and **cancer** stem cells being the key perpetrators of **cancer** (83,84). **Epigenetic** therapy of **cancer** The reversible nature of the profound **epigenetic** changes that occur in **cancer** has led to the possibility of 'epigenetic therapy' as a treatment option.

Cited by: 1899

Author: Shikhar Sharma, Theresa K. Kelly, Peter ...

Publish Year: 2010

Colorectal Cancer Microenvironment: Among Nutrition, Gut ...

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Colorectal Cancer Microenvironment: Among Nutrition, Gut Microbiota, Inflammation and Epigenetics ... development of **colorectal cancer**, including the **role** of ... result in the **transformation**

...

The role of inflammation in cancer - QIAGEN

<https://www.qiagen.com/.../articles/reviews-online-inflammation-in-cancer> ▼

The **role** of **inflammation in cancer**. **Epigenetic** damage, such as aberrant DNA methylation, aberrant histone modification and miRNA expression is well recognized as a major driving force in **cancer** development and progression (19, 20). The presence of reactive oxygen species in the **inflammatory** state has been associated with **epigenetic** damage (21).

Metabolic reprogramming links chronic intestinal ...

<https://www.sciencedirect.com/science/article/pii/S0304383519301314>

CRC is the leading cause of death for the United States, and its incidence has increased over the last decade. The role of metabolic reprogramming in the development of CRC is still unclear. In this review, we discuss the role of metabolic reprogramming in the development of CRC and its potential as a therapeutic target.

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Epigenetic Influences in the Obesity/Colorectal Cancer Axis: A Novel ...

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Epigenetic Regulation of Inflammatory Cytokines and Associated ...