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Name of Journal: *World Journal of Clinical Oncology*

Manuscript NO: 56848

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Basic Study

Diacerein treatment prevents colitis-associated cancer in mice

Paulino DSM *et al.* Diacerein prevents colitis-associated cancer

Daiane SM Paulino, Maria Carolina S Mendes, Juliana A Camargo, Sandra R Brambilla,

Tanila Wood Dos Santos, Marcelo L. Ribeiro, José Barreto Campello Carvalheira

Abstract

BACKGROUND

Inflammation is a well-established enabling factor for cancer development and provides a framework for the high prevalence of colon cancer in inflammatory bowel disease. In accordance, chronic inflammation has recently been implicated in the development of



Diacerein treatment prevents colitis-associated cancer in mice



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Mar 27, 2015 · NPC1L1 knockout protects mice against colitis-associated tumorigenesis.(A) NPC1L1 protein expression was absent in the small intestine 2/5 of NPC1L1 **-/- mice** by western blot analysis. (B) **Colorectal tumorigenesis** was induced by injection of the procarcinogen AOM followed by one round of **DSS exposure** to elicit **colitis**.

Cited by: 7 **Author:** Jianming He, Jianming He, Hyunsu Shin, Xi...
Publish Year: 2015

[PDF] Rescuing Dicer expression in inflamed colon tissues ...

<https://www.thno.org/v10p5749.pdf?v=1597040389>

and promotes **cancer** initiation and the subsequent proliferation, survival, and migration of **cancer** cells [26]. Knockout of Dicer in intestinal epithelial cells was found to induce inflammation, and Dicer heterozygous **mice** were more likely to develop **colitis-associated** tumors [27]. Therefore, in addition

Canmei Formula Reduces Colitis-Associated Colorectal ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6877713>

Nov 19, 2019 · CMF Attenuated AOM/DSS-Induced **Colitis-Associated** Tumorigenesis. To evaluate the protective effect of CMF on the development of **colitis-associated cancer**, the well-established AOM/DSS and high-fat diet-induced **colitis-associated** colorectal tumor model in C57BL/6 **mice** were used (Figure 2A). Initially, the toxicity of CMF was tested in vivo. We ...

Cited by: 2 **Author:** Hua yue Zhang, Deng cheng Hui, Yuan Li, G...
Publish Year: 2019

Mice deficient in Muc4 are resistant to experimental ...

<https://pubmed.ncbi.nlm.nih.gov/26364605>

Mice deficient in Muc4 are resistant to experimental colitis and **colitis-associated** colorectal **cancer** Oncogene . 2016 May 19;35(20):2645-54. doi: 10.1038/onc.2015.327.

The indole compound MA-35 attenuates tumorigenesis in an ...

<https://www.nature.com/articles/s41598-019-48974-9>

Sep 04, 2019 · MA-35 inhibited **drug-induced colitis** and the **progression of colitis-associated colorectal cancer (CAC)** in an AOM/DSS mouse model The **CAC mouse** ...

Cited by: 1 **Author:** Keigo Kanehara, Shinobu Ohnuma, Yoshita...
Publish Year: 2019

Prevention of Colitis-Associated Colorectal Cancer with 8 ...

<https://cancerpreventionresearch.aacrjournals.org/content/4/9/1507> ▾

Using **dextran sodium sulfate (DSS)-induced colitis** and 2-stage **colon cancer** model first established by Tanaka and colleagues , in which **colon cancer** is initiated by azoxymethane (AOM) and promoted by DSS ingestion, we studied whether exogenous 8-OHdG is effective in **ameliorating colitis**, after which long-term administration of 8-OHdG-containing **diet can prevent colitis-associated cancer** in interleukin ...

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Diacerein treatment prevents colitis-associated cancer in mice



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Rescuing Dicer expression in inflamed colon tissues ...

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Dicer overexpression in inflamed **colon tissues** alleviated inflammation and repressed **colitis-associated carcinogenesis**. Furthermore, we found that anastrozole, berberine, and pranoprofen could promote **Dicer** expression and **protect cells** from hydrogen peroxide-induced DNA damage, thereby reducing **cytosolic DNA** and partially repressing interleukin-6 expression upon hydrogen peroxide treatment.

Author: Xiaoli Wu, Xiao Chen, Hui Liu, Zhong-... **Publish Year:** 2020

NPC1L1 knockout protects against colitis-associated ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4378275>

Mar 27, 2015 · NPC1L1 **knockout** protects mice against colitis-associated tumorigenesis.(A)

NPC1L1 **protein** expression was absent in the small intestine 2/5 of NPC1L1 **-/- mice** by western blot analysis. (B) **Colorectal tumorigenesis** was induced by injection of the procarcinogen AOM followed by one round of **DSS exposure** to elicit **colitis**.

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