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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 58059

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

RBBP4 promotes colon cancer malignant progression *via* regulating Wnt/ β -catenin pathway

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Abstract

BACKGROUND

Our previous study demonstrated that RBBP4 is upregulated in colon cancer, and correlated with poor prognosis of colon cancer and hepatic metastasis. However, the potential biological function of RBBP4 in colon cancer is still unknown.

Match Overview

Match Number	Source	Words	Similarity
1	Crossref	48 words Leilei Yuan, Junhong Tian. "LIN28B promotes the progression of colon cancer by increasing B-cell lymphoma 2 expression"	1%
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[The regulation of \$\beta\$ -catenin activity and function in ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5464927>

May 16, 2017 · As a result, it contributes to carcinogenesis and tumor **progression** of several cancers, including colon cancer, hepatocellular carcinoma, pancreatic cancer, lung cancer and ovarian cancer. β -Catenin is a pivotal component of the Wnt signaling **pathway** and it is tightly regulated at three hierarchical levels: protein stability, subcellular ...

Cited by: 150

Author: Shuang Shang, Fang Hua, Zhuo-Wei Hu

Publish Year: 2017

[Ectodysplasin A receptor \(EDAR\) promotes colorectal cancer ...](#)

<https://www.sciencedirect.com/science/article/pii/S0014482720304195>

Aberrant activation of Wnt/ β -catenin **pathway**, also referred to as the canonical **pathway**, is essential for the pathogenesis of colorectal cancer [4,5]. The Wnt signaling upregulates cytoplasmic β -catenin level through stabilizing β -catenin, which may translocate to the nucleus later for interaction with a subset of transcriptional factors.

α -catenin

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4128878>

Aug 01, 2014 · The Wnt/ β -catenin signaling **pathway** has been shown not only to **promote** tumor formation and **progression** in multiple cancers, 28, 29 including colorectal cancer, 7, 30, 31 lung cancer 32 and endometrial cancer, 33, 34 but also to **regulate** drug resistance. 35

Cited by: 8

Author: Yutong Sun, Jinsong Zhang, Li Ma

Publish Year: 2014

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Apr 01, 2019 · LncRNAs regulate CRC cells through the Wnt/ β -catenin cascade. β -catenin affects both carcinogenesis and development. Overexpression of Wnt/ β -catenin pathway members is a common feature in CRC. 6,19 Studies suggest that β -catenin plays a role as a transcription factor in concert with TCF1 and LEF1 to activate downstream target genes. 20 When Wnt ligands bind to the receptor FZD or ...

Cited by: 11

Author: Xiaohuan Tang, Xiaofang Qiao, Chao Chen, ...

Publish Year: 2019

Signaling pathways involved in colorectal cancer progression

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6889432>

Dec 02, 2019 · Introduction. Colorectal cancer is the second most common type of malignancy and the fourth leading cause of the cancer-related death worldwide [].In terms of cancer etiology, and CRC as a particular example, the mechanism of cancer development is a complex multistage process, involving sequential mutational events occurring along with progression of the cancer [].

Cited by: 3

Author: Zahra Koveitypour, Farnoush Panahi, Mehr...

Publish Year: 2019

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Aug 07, 2013 · 2.1. The WNT Signaling **Pathway**. CIN is the most well characterized type of **colorectal pathway** and the most common. The tumorigenic process involves different mitotic spindle checkpoint regulators and proteins that mutually influence mitotic chromosome stability [10,11]. A “key” initial mutation is the early mutation of the adenomatous polyposis coli (APC) tumor suppressor gene, involved in ...

Cited by: 264 **Author:** Dora Colussi, Giovanni Brandi, Franco B...

Publish Year: 2013

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Author: Bin Wang, Yanfang Liang, Xingxing C... **Publish Year:** 2020

[\$\beta\$ -Catenin Promotes Colitis and Colon Cancer Through ...](#)

<https://stm.sciencemag.org/content/6/225/225ra28>

Feb 26, 2014 · In human colitis and **colon cancer**, T cells express elevated levels of β -catenin. Earlier, we provided evidence that β -catenin is activated downstream of the TCR (). Both IBD and **colon cancer** involve activation of T cells; therefore, we investigated whether the **Wnt/ β -catenin pathway** was up-regulated in T cells in these diseases.

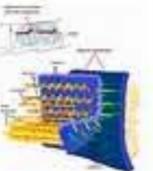
Cited by: 88 **Author:** Shilpa Keerthivasan, Katayoun Aghajani, ...

Publish Year: 2014

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Catenin

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Wnt Signaling Pathway

The Wnt signaling pathways are a group of signal transduction pathways which begin with proteins that pass signals into a cell through cell surfac...