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Research progress on O-GlcNAcylation in the occurrence, development, and treatment of colorectal cancer

Yao Liu, Fang-Xing Peng

Abstract

For a long time, colorectal cancer (CRC) has been ranking among the top cancer-related mortality rates, threatening human health. As a significant post-translational modification, O-GlcNAcylation plays an essential role in complex life activities. Related studies have found that the occurrence, development, and metastasis of CRC are all related to abnormal O-GlcNAcylation and participate in many critical biological processes, such as gene transcription, signal

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Cited by: 1 Author: Miao Yu, Songtao Chu, Bingyuan Fei, Xu...
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Background/objective: Integrin $\alpha 5$ (ITGA5) as one member of integrins family, plays an important role in promoting cancer cell metastasis and invasion through inducing the communications among different cells or cells with extracellular matrix (ECM). However, the mechanisms underlying ITGA5 in colorectal cancer (CRC) progression need to be explored, especially for its O-GlcNAcylation.

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Colorectal cancer is one of the leading causes of cancer death worldwide. According to global genomic status, colorectal cancer can be classified into two main types: microsatellite-stable and ...

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Oct 27, 2020 · In view of the important roles of O-GlcNAcylation in multiple fundamental cellular processes, it is unsurprising that imbalanced profiles of OGT/O-GlcNAcylation frequently lead to the **occurrence** of many diseases such as diabetes, neurological disorders, cardiovascular disease, and even **cancer** ...

PEOPLE ALSO ASK

What is the risk of developing colorectal cancer?

