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Manuscript Title:

Research Progress on O-GlcNAcylation in the Occurrence, Development, and Treatment of Colorectal Cancer

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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 transduction, cell growth, and differentiation. Recently, nucleotide sugar analogs, tumor-specific carbohydrate vaccine, SIRT1 longevity gene, dendritic cells as targets, and NOTCH gene have become effective methods to induce antitumor therapy. Not long ago, CHK1 and CHK2 were used as therapeutic targets for CRC, but there are still many problems to be solved. With an in-depth study of protein chip, lectin chip, mass spectrometry, chromatography, and other technologies, O-GlcNAcylation research...

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