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Name of Journal: *World Journal of Biological Chemistry*

ESPS Manuscript NO: 20554

Manuscript Type: REVIEW

6
Regulation of MYC gene expression by aberrant Wnt/β-catenin signaling in colorectal cancer

Sherri Rennoll, Gregory Yochum

Abstract

6
The Wnt/β-catenin signaling pathway controls intestinal homeostasis and mutations in components of this pathway are prevalent in human colorectal cancers (CRCs). These mutations lead to inappropriate expression of genes controlled by Wnt responsive DNA elements (WREs). 1-cell factor/Lymphoid enhancer factor (TCF/Lef) transcription factors bind WREs and recruit the β-catenin transcriptional co-activator 3 to activate target gene expression. Deregulated expression of the c-MYC proto-oncogene (MYC) by aberrant Wnt/β-catenin signaling drives colorectal carcinogenesis. 9 In this review, we discuss the current literature pertaining to the identification and characterization of WREs that control oncogenic MYC expression in CRCs. A common theme has emerged whereby these WREs often map distally to the MYC genomic locus and control MYC gene expression through long-range chromatin loops with the MYC

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In a model of colitis-associated colorectal cancer, the Myc 3' WRE ... The connection between Wnt/ β -catenin signaling and MYC was made by using a screen The Myc 3' WRE is required for proper regulation of Myc gene expression in cooperates with aberrant Wnt/ β -catenin signaling to drive colorectal cancers.

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Aberrant activation of Wnt/ β -catenin signaling, resulting in the expression of ... Wnt/ β -catenin target genes include known proliferative genes (e.g., c-Myc, ref ... of colon



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