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9  
Wnt/ $\beta$ -catenin pathway signaling in human hepatocellular carcinoma

Jacques Waisberg, Gabriela Tognini Saba

### Abstract

The molecular basis of the carcinogenesis of HCC has not been adequately clarified, which negatively impacts the development of targeted therapy protocols for this overwhelming neoplasia. The aberrant activation of signaling in the HCC is primarily due to the deregulated expression of the components of the Wnt/ $\beta$ -catenin. This leads to the activation of  $\beta$ -catenin/TCF-dependent target genes that control cell proliferation, cell cycle, apoptosis, and cell motility. The deregulation of the Wnt pathway is an early event in hepatocarcinogenesis. An aggressive phenotype was associated with HCC, since this pathway is implicated in the proliferation, migration, and invasiveness of cancer cells, regarding the cell's own survival. The disruption of the signaling cascade Wnt/ $\beta$ -catenin has shown anticancer properties in HCC's clinical evaluations of therapeutic molecules targeted for blocking the



The Wnt/ $\beta$ -catenin pathway signaling in human hepatocellular carcinoma



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