

## عنوان مقاله:

miR-9Ya promotes hepatocellular carcinoma cells proliferation and invasion by FOXAY targeting

محل انتشار:

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## خلاصه مقاله:

Objective(s): MicroRNAs (miRNAs) are considered as powerful, post-transcriptional regulators of gene expression in hepatocellular carcinoma cells (HCC). However, the function of miR-9Ya is still unclear in HCC. Materials and Methods: Expression of miR-9Ya in human HCC cell lines was evaluated using qRT-PCR. MTT assay and transwell assay were used to examine the function of miR-9Ya in HepGY and HuhY cells. Bioinformatic analyses and luciferase reporter assays were used to validate FOXAY as a direct target gene of miR-9Ya. Consistently, the biological outcome of miR-9Ya on regulating FOXAY was examined by proliferation and invasion analysis in vitro. Results: Here, we detected the higher expression of miR-9Ya in human HCC cell lines, such as HepGY, HuhY and HepMB, compared with the normal human hepatocyte LoY cells. Overexpression of miR-9Ya significantly increased cell growth and invasion ability, while the knockdown of miR-9Ya could remarkably inhibit the growth and invasion possibility. We identified that miR-9Ya has specific targeting sites in the M'-UTR of the FOXAY. By overexpressing miR-9Ya in HepGY cells or HuhY cells, the expression of FOXAY was remarkably repressed. Conclusion: We demonstrated that miR-9Ya may play a critical role in HCC proliferation and invasion and may serve as a novel therapeutic target by the repression .of FOXAY

## كلمات كليدى:

miR-9Ya promotes HCC proliferation and invasion

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