

MiR-382-5p's Function as a Suppressor in Osteosarcoma (OS) by Targeting PDPK1

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ABSTRACT miR-382-5p engages in development of osteosarcoma (OS). However, the regulatory system of miR-382-5p in osteosarcoma remains to be revealed. This research studied the interplay between PDPK1 and miR-382-5p in OS. RT-PCR was used to evaluate miR-382-5p and PDPK1 expression in OS cells and normal human osteoblast cells. Dual-luciferase reporter assay validated PDPK1 as a miR-382-5p target. CCK-8 evaluated the cell viability. Flow cytometric method determined cell apoptosis rate. Transwell and Scratch assays estimated the cell metastasis. miR-382-5p was inhibited in OS cells. Further functional results showed miR-382-5p upregulation reduced cell viability, and mobility by mediating PDPK1 in OS cells.