

MiR-610 Restrains the Proliferation and Invasion in Thyroid Cancer Cells by Modulating TAZ Expression

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ABSTRACT In this study, microRNA-610 (miR-610) was used to evaluate the expression and function on the development process of thyroid cancer. The expressions of miR-610 in tissues and cells were quantified by using qRT-PCR. The proliferation and invasion in cells were determined by MTT along with Transwell assay. The relationship between miR-610 and FAZ was measured in the dual luciferase reporter. Besides, TAZ protein expression was evaluated using a Western blot. MiR-610 showed low expressions in the following tissues and cell lines. Functionally, silence of miR-610 enhanced the proliferation and invasion of cells. TAZ was verified to be a direct target gene of miR-610. Subsequently, the proliferation and invasion of cells were suppressed when TAZ was silenced. Besides, it was demonstrated that the inhibitory effect on cells induced by miR-610 was reversed by TAZ vector. miR-610 was revealed to restrain cells' proliferation and invasion by making TAZ expression restrain in thyroid cancer (TC).