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Our study also found that there was a low expression level of miR-125a-5p in radioresistant KYSE-150R cells. Zhang et al. reported that miR-125a suppressed bladder cancer cell proliferation by inducing cell cycle arrest and cell apoptosis. Cell cycle became stagnant at the G0/G1 phase when miR-125a-5p was overexpressed [31]. In cervical cancer, cell invasion and tumor metastasis can be regulated by miR-125a-5p as it targets STAT3 [32].

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In addition, miR-125a-5p had low levels of expression in radioresistant KYSE-150R cells. This is corroborated by Zhang et al.'s study, which found that the overexpression of miR-125a resulted in a stagnation at the G0/G1 phase of the cell cycle, thus prompting cell cycle arrest and apoptosis, resulting in the suppression of cell proliferation in bladder cancer [31]. In cervical cancer, miR-125a-5p targets STAT3, thus regulating the processes of cell invasion and tumor metastasis [32].