Title: Down-regulation of miR-373 increases the radiosensitivity of lung cancer cells by targeting TIMP2

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Down-regulation of miR-373 increases the radiosensitivity of lung cancer cells by targeting TIMP2

Running head: The role of miR-373 in lung cancer

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Highlights:

- miR-373 decreases lung cancer cell radiosensitivity;
- miR-373 promotes lung cancer cell migration and invasion;
- miR-373 regulates PI3K/AKT and Smad signaling pathways by targeting TIMP2.

Abstract

Background: Radiotherapy is a widely used effective treatment for lung cancer in clinic. MicroRNAs (miRNAs) have been proved to play an important role in radiation response. This study aimed to explore the regulatory role and mechanism of miR-373