

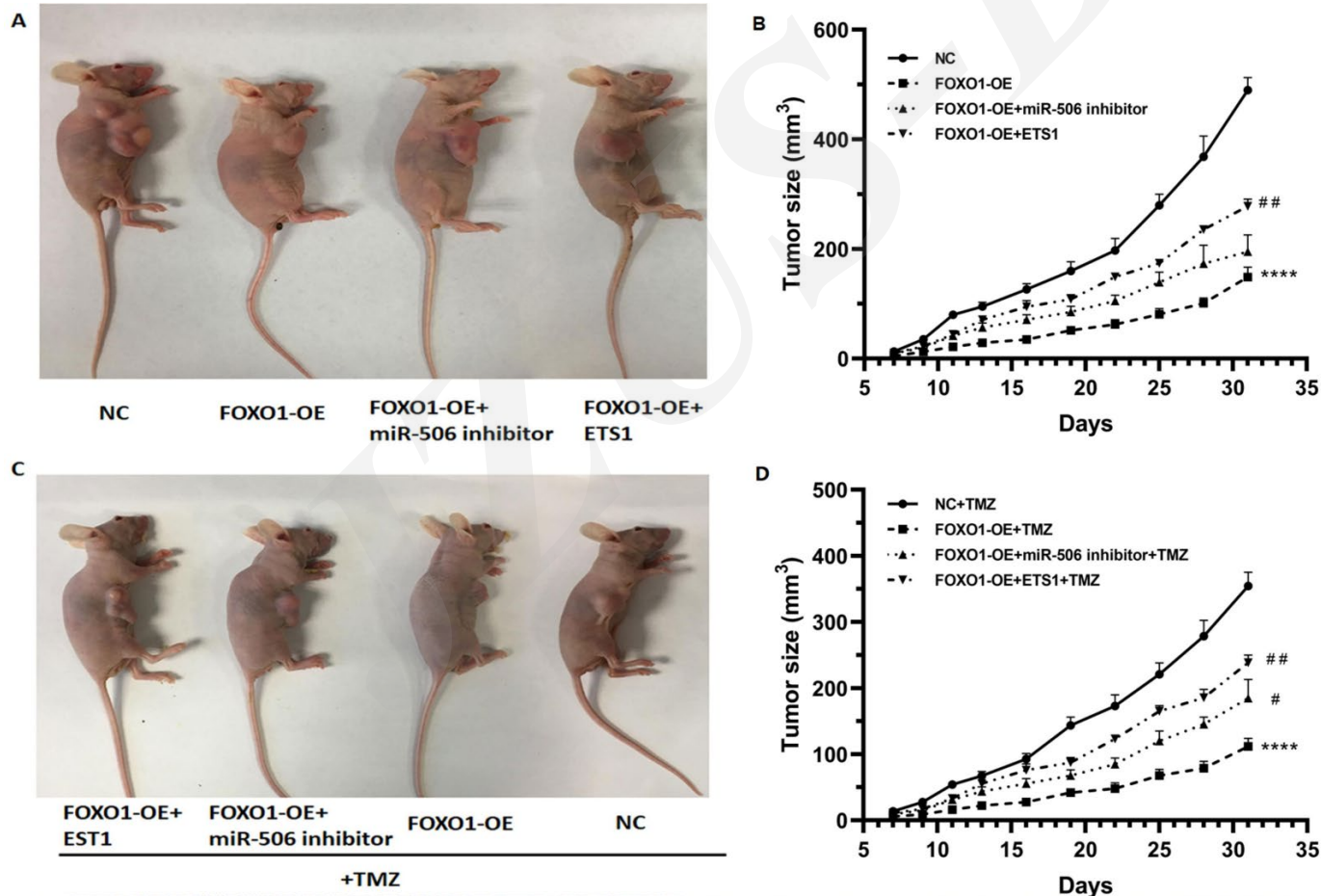
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FOXO1-miR-506 axis promotes chemosensitivity to temozolomide and suppresses invasiveness in glioblastoma through a feedback loop of FOXO1/miR- 506/ETS1/FOXO1

Key words: glioblastoma, FOXO1, miR-506, ETS1,
chemosensitivity

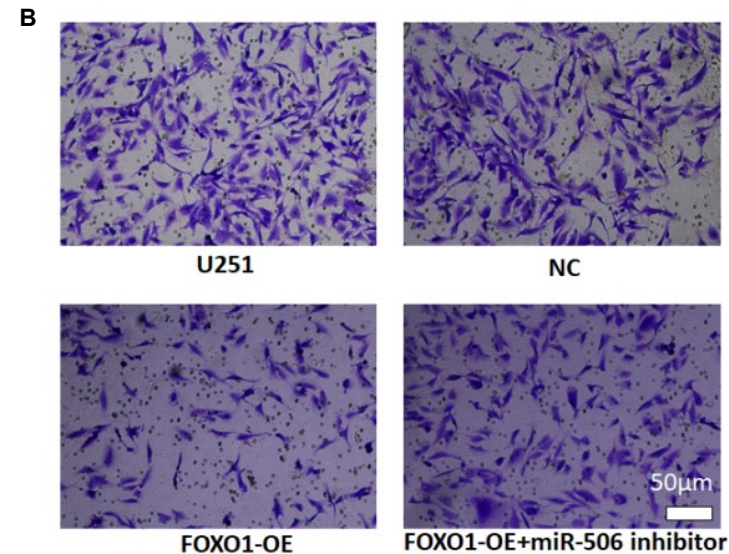
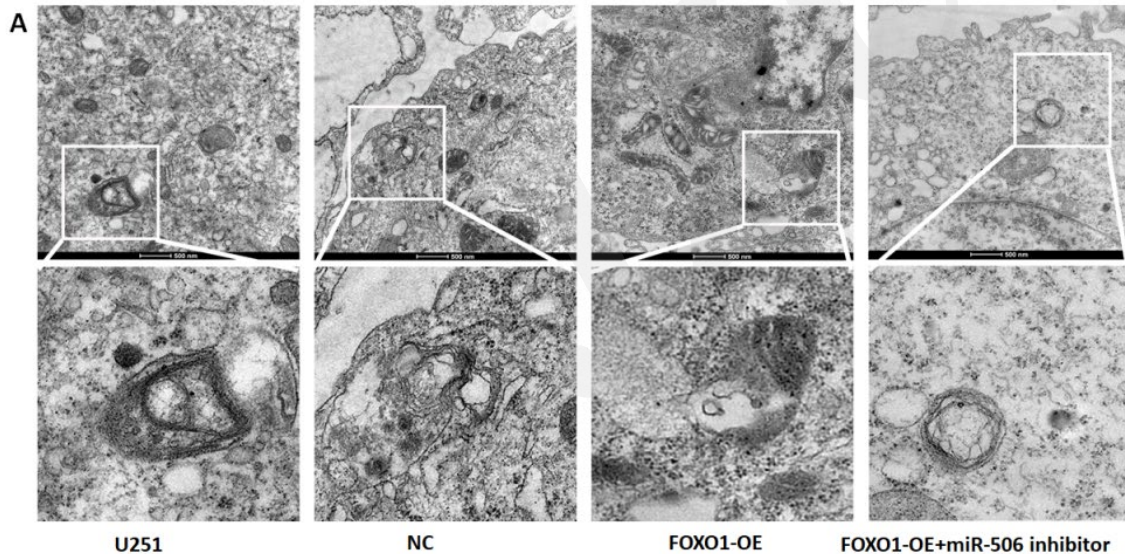
Research Summary

- This study demonstrated a negative feedback loop of FOXO1/miR-506/ETS1/FOXO1 in GBM in regulating invasiveness and chemosensitivity.
- The axis might be a promising therapeutic target for GBM.



Innovation points

- FOXO1 inhibited autophagy in GBM, which was reversed by the miR-506 inhibitor.
- FOXO1 inhibited the migration and invasion of cells in GBM, which was reversed by the miR-506 inhibitor.



Innovation points

- FOXO1 enhances miR-506 promoter transcriptional activity to upregulate the expression of miR-506
- ETS1, a miR-506 target, promoted FOXO1 translocation from the nucleus to the cytosol to enhance GBM growth

