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ZNF750 facilitates carcinogenesis via promoting the expression of long non-coding RNA *CYTOR* and influences pharmacotherapy response in colon adenocarcinoma

Key words: Zinc Finger Protein 750, colon adenocarcinoma, long non coding RNA CYTOR, chemotherapy

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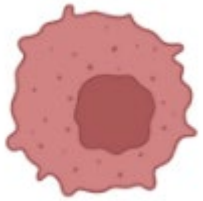
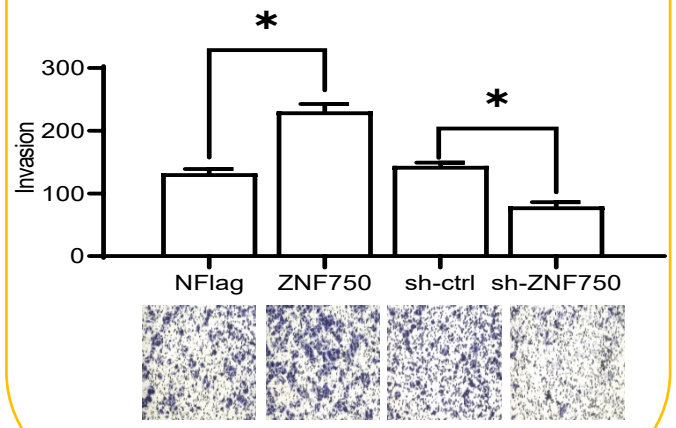
Methods and Results

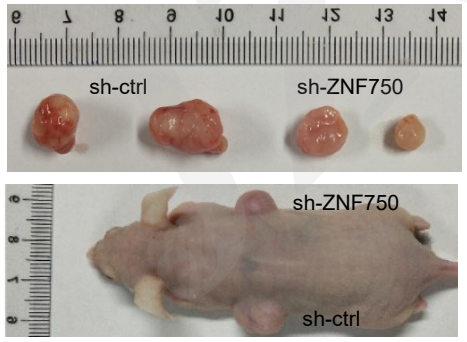


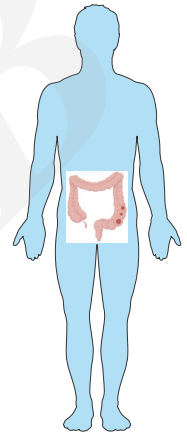
Cancer cells



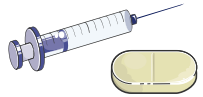


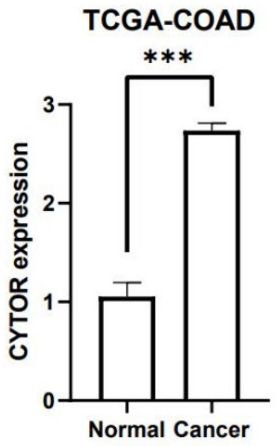
subcutaneous xenograft tumor in nude mice

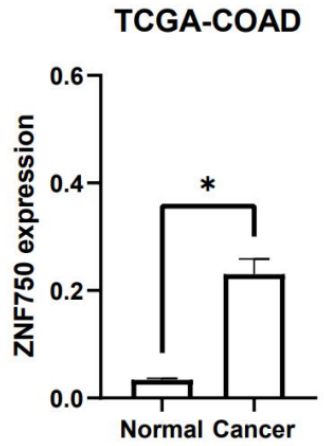


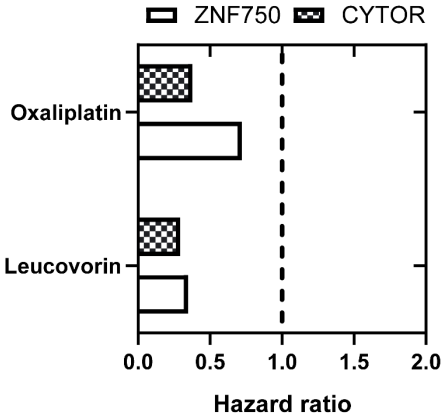


TCGA/GEO-COAD dataset analysis









Conclusions

In conclusion, present studies reveal that ZNF750 positively regulates the CYTOR expression by in vitro experiments. ZNF750-CYTOR promotes the malignant phenotypes in colon adenocarcinoma cells. Furthermore, studies based on TCGA or GEO COAD cohort indicates three vital relevancies between ZNF750-CYTOR axis and clinical features: First, ZNF750-CYTOR axis is upregulated during carcinogenesis and cancer progression. Second, ZNF750-CYTOR is positively correlates to the TILs and related to the expression of immune checkpoint genes. Third, ZNF750-CYTOR may be a pharmacotherapy response predictor of colon adenocarcinoma for several kinds of conventional chemotherapy.