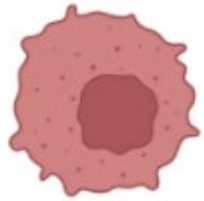


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<http://doi.org/10.1631/jzus.B2100939>

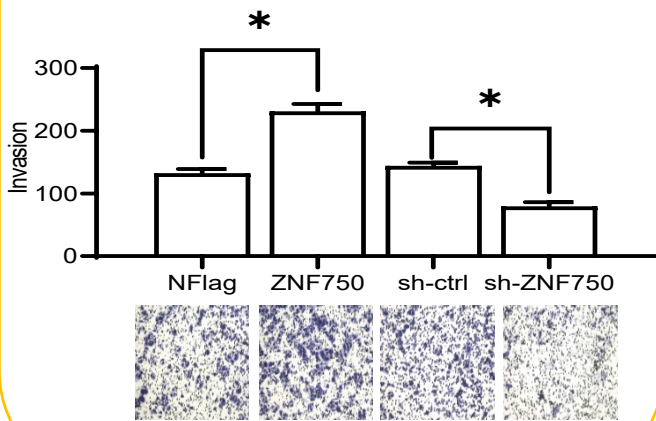
ZNF750 facilitates carcinogenesis via promoting the expression of long non-coding RNA *CYTOR* and influences pharmacotherapy response in colon adenocarcinoma

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

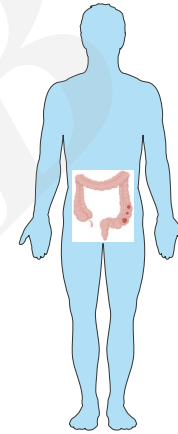
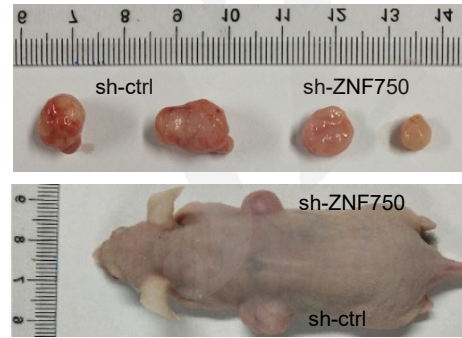
Methods and Results



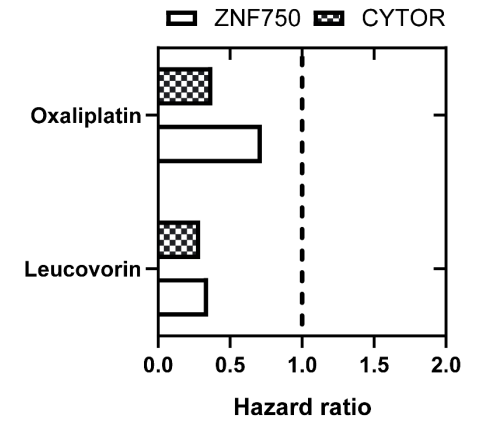
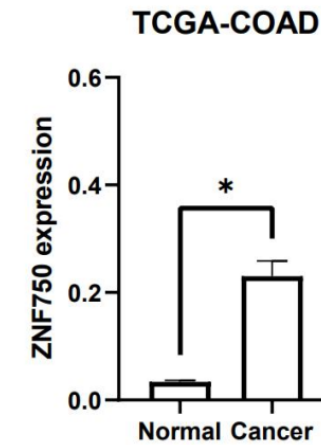
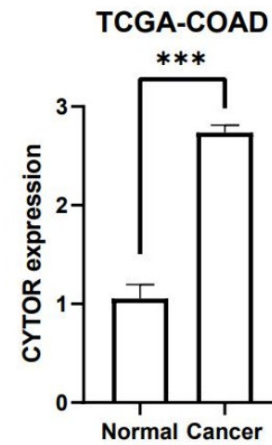
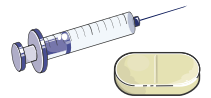
Cancer cells



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.