

FERROPTOSIS-RELATED LNCRNAs AS NOVEL PROGNOSTIC BIOMARKERS FOR COLON ADENOCARCINOMA

Miaoyu Jing

UEG Week Copenhagen 2023

Poster

Colorectal

October 15, 2023

An eight-lncRNA signature based on ferroptosis-related genes was developed and validated as an independent prognostic model for colon adenocarcinoma using TCGA data.

KEY POINTS

- Seven ferroptosis-related lncRNAs (ZEB1-AS1, AL354993.2, LINC02381, AP001505.1, NCK1-DT, CD27-AS1, AC068580.3) predicted poor prognosis while SNHG16 predicted good prognosis in colon adenocarcinoma patients.
- The risk score derived from the eight-lncRNA signature was an independent prognostic factor in both univariate (HR 1.354, 95% CI 1.228-1.494, $P < 0.001$) and multivariate (HR 1.343, 95% CI 1.202-1.500, $P < 0.001$) Cox regression analyses.
- The prognostic model demonstrated good predictive performance with AUC values of 0.737 for 3-year survival and 0.785 for 5-year survival, and a C-index of 0.795.
- Risk score and TNM stage were the largest contributors to overall survival in the nomogram, with risk score increasing with disease stage, and predicted survival showed good agreement with observed clinical outcomes.
- This study may be of interest to researchers investigating ferroptosis-related mechanisms in colorectal cancer and clinicians seeking prognostic biomarkers for colon adenocarcinoma stratification.

VIEW THIS CONTENT ON GUTFLIX

<https://gutflix.eu/search/d/1ffc23ca-743c-11ee-948a-0242ac140004>



AI-generated summary

This summary was generated by an AI large language model based on the content transcript. It is for informational purposes only and should not be considered a substitute for clinical judgment. Always rely on your professional expertise and the full clinical context when making clinical decisions.