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Transfer RNA-derived fragment tRF-23-Q99P9P9NDD promotes progression of gastric cancer by targeting *ACADSB*

Key words: tRNA-derived small RNA, gastric cancer, ACADSB, molecular mechanism, treatment, ferroptosis

Research Summary

This research focuses on the role and mechanism of tRF-23-Q99P9P9NDD in the malignant progression of gastric cancer in the following aspects:

- **The role of tRF-23-Q99P9P9NDD in the malignant progression of gastric cancer.**
- **The regulatory relationship between tRF-23-Q99P9P9NDD and ACADSB.**
- **How tRF-23-Q99P9P9NDD inhibits the progression of gastric cancer by targeting ACADSB.**

Innovation points

- **tRF-23-Q99P9P9NDD promotes the proliferation, migration and invasion of GC cells.**
- **tRF-23-Q99P9P9NDD directly regulates the expression of ACADSB in GC cells.**
- **ACADSB is downregulated in GC and could inhibit the proliferation, migration, and invasion of GC cells.**
- **tRF-23-Q99P9P9NDD may inhibit ferroptosis of GC by targeting ACADSB.**

Innovation points

A figure was generated to summarize the roles and mechanisms of tRF-23-Q99P9P9NDD in GC.