# PROGNOSTIC PROGRAMMED CELL DEATH AND GLYCOSYLATION-RELATED LONG NONCODING RNAS ASSOCIATED WITH IMMUNE INFILTRATION IN GASTRIC CANCER

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**An 11-lncRNA signature related to programmed cell death and glycosylation shows promise as a prognostic biomarker in gastric cancer based on TCGA and ARCG data.**

## KEY POINTS

- Analysis of TCGA and ARCG databases identified 168 programmed cell death and glycosylation-related lncRNAs, of which 36 showed differential expression and prognostic value.
- An 11-lncRNA signature (MIR4435-2HG, LINC02381, LINC00106, LSAMP-AS1, LINC01140, LINC01614, RPH3AL-AS1, LINC02864, LEF1-AS1, LINC00844, and DPH6-DT) demonstrated good prognostic performance in both datasets.
- High-risk and low-risk groups stratified by the signature showed differences in immune cells, immune functions, and gene mutations.
- In vitro experiments demonstrated that knockdown of RPH3AL-AS1 and LINC00106 influenced programmed cell death and glycosylation in gastric cancer cells.
- The signature may serve as a biomarker for predicting clinical outcomes in gastric cancer patients, particularly those interested in prognostic stratification tools.

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