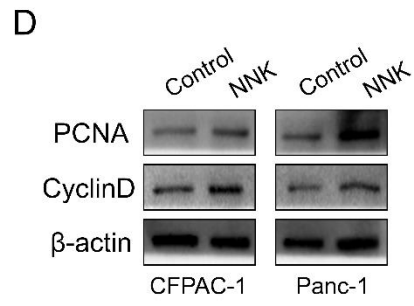
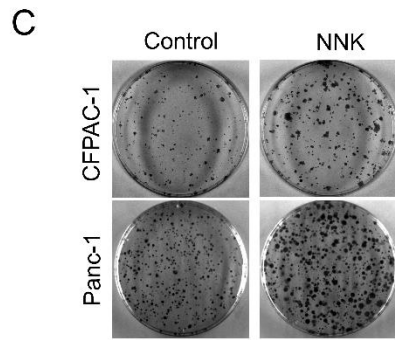
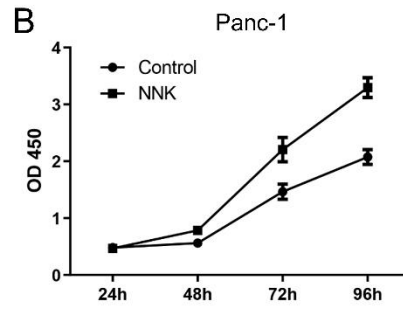
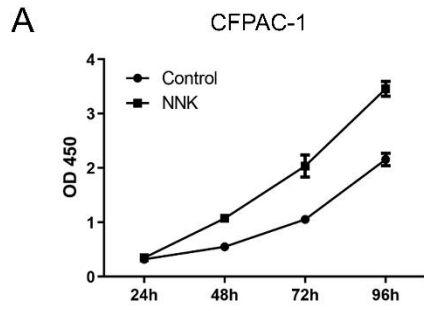
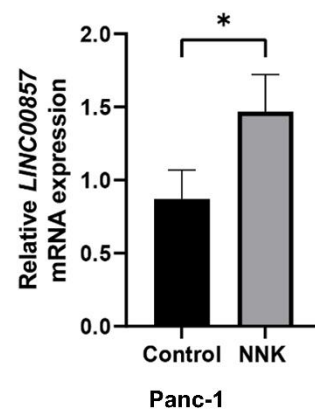
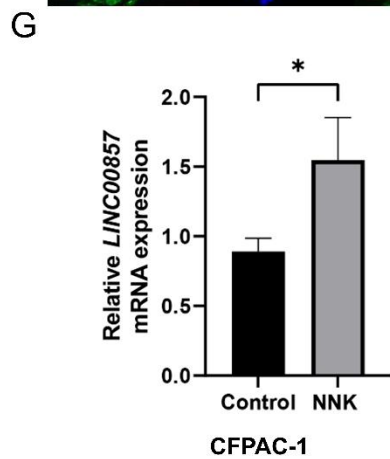
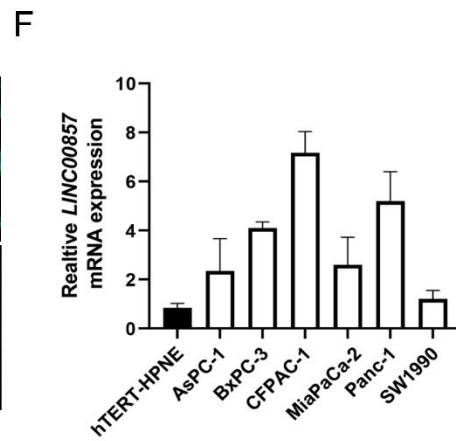
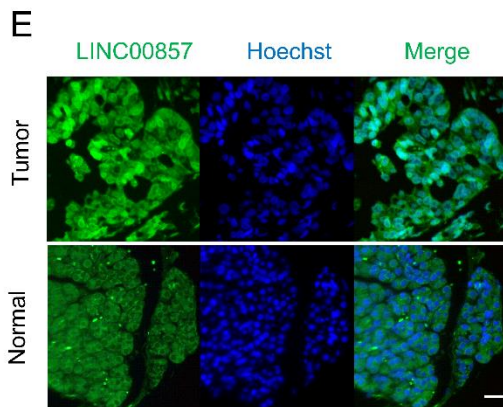
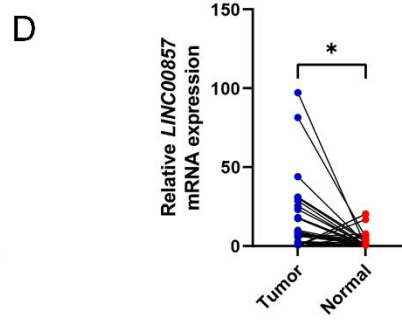
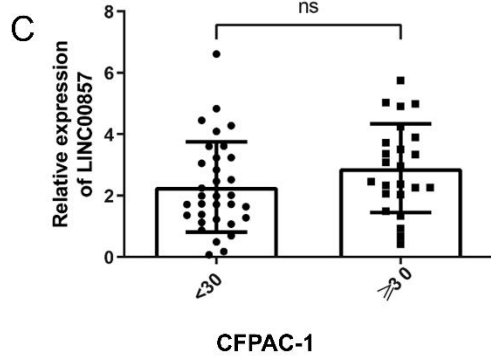
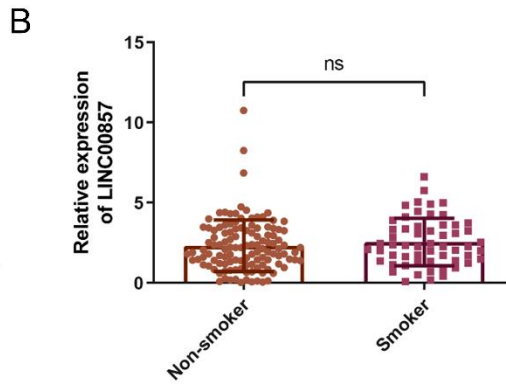
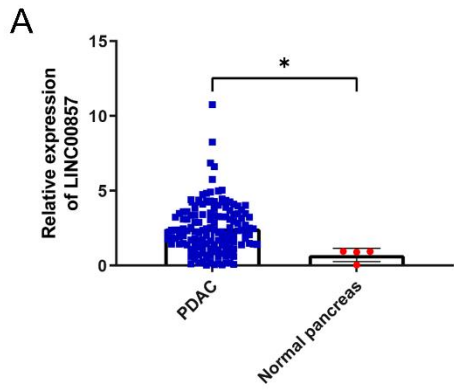


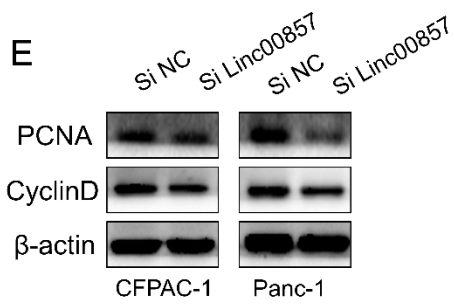
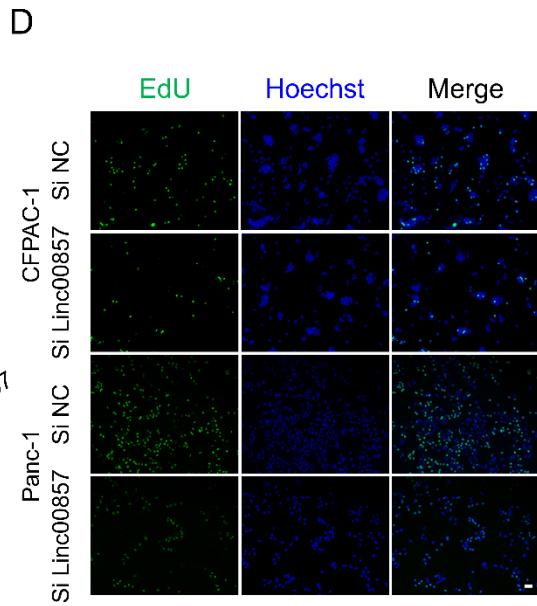
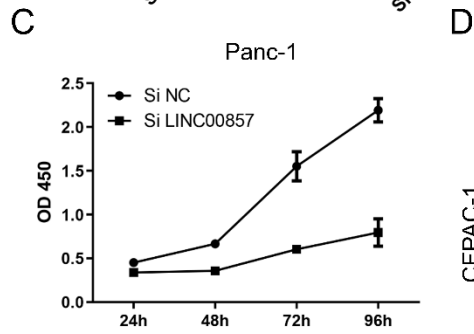
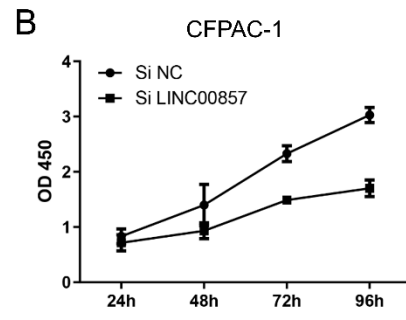
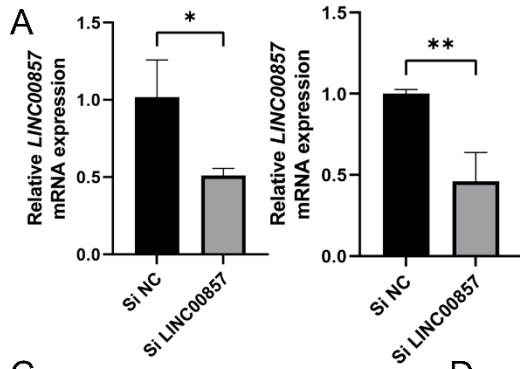
**Supplementary file Figure 1.** NNK promotes the proliferation of pancreatic cancer cell **A-B** CFPAC-1 and Panc-1 cells were treated with NNK (0, 100  $\mu$  M) for 24, 48, 72h and 96 h, and cell viability was determined using the CCK-8 assay. **C** The clonogenesis of pancreatic cancer cells in NNK (0, 100  $\mu$  M) intervention groups was measured using the colony formation assay. **D** Western blotting analysis detected the level of the PCNA and CyclinD1 protein in different treatment groups (0 and 100  $\mu$  M NNK). Statistical significance is represented by \*\*P<0.001.



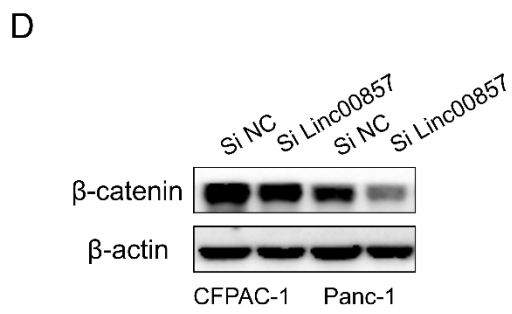
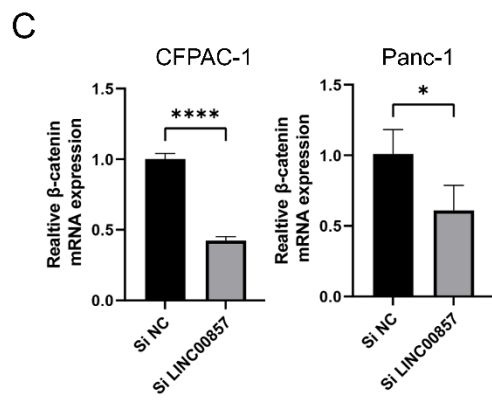
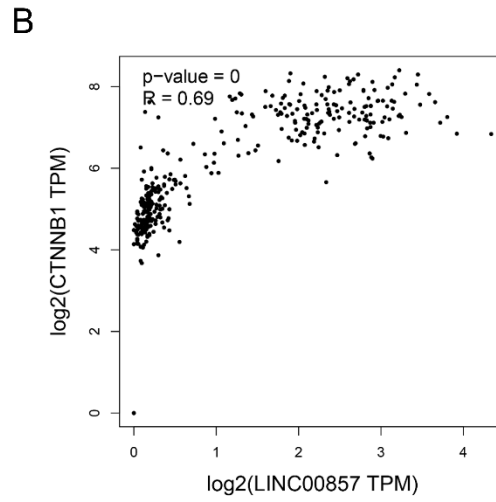
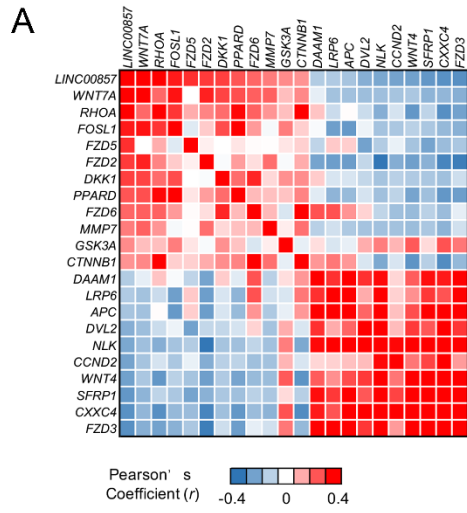
**Supplementary file Figure 2.** LINC00857 is overexpressed in pancreatic cancer and is correlated with cigarette smoking **A** Expression levels of LINC00857 in pancreatic cancer (n=141) and normal tissues (n=4) were analyzed using the TCGA database. **B** The TCGA database was utilized to investigate the expression of LINC00857 in pancreatic cancer patients with and without a history of smoking. **C** The TCGA database was employed to compare the expression levels of LINC00857 between pancreatic cancer patients with a smoking history of over 30 years and those with a smoking history of less than 30 years. **D** Expression levels of LINC00857 in pancreatic cancer (n=10) and normal tissues (n=35) were detected using our center's database samples. **E** The localization of LINC00857 in normal pancreatic tissues and pancreatic cancer tissues was observed using FISH. **G** The mRNA expression levels of LINC00857 in pancreatic cancer cell lines and normal pancreatic ductal epithelial cell lines were detected using qRT-PCR. **F** The mRNA expression levels of LINC00857 were detected using qRT-PCR in different treatment groups (0 and 100  $\mu$  M NNK). Statistical significance is represented by \*P<0.05, \*\*P<0.01 and \*\*\*P<0.001.



**Supplementary file Figure 3.** Knockdown of LINC00857 suppresses the proliferation of pancreatic cancer cell **A** CFPAC-1 and Panc-1 cells were transfected with different siRNA interventions (Si NC, Si LINC00857) and the expression levels of LINC00857 were detected using qRT-PCR in both pancreatic cancer cell lines. **B-C** CFPAC-1 and Panc-1 cells were treated with different siRNA interventions (Si NC and Si LINC00857) for 24, 48, 72, and 96 hours, and cell viability was evaluated using the CCK-8 assay. **D** Cell proliferation was assessed using the EdU cell proliferation assay kit. **E** Western blotting analysis was performed to detect the levels of PCNA and CyclinD in different siRNA intervention groups (NC and Si LINC00857). Statistical significance is represented by \*P<0.05, \*\*P<0.01 and \*\*\*P<0.001.



**Supplementary file Figure 4.**  $\beta$ -catenin is the potential downstream of LINC00857 **A-B** Downstream genes associated with LINC00857 were identified using the TCGA database. **C** CFPAC-1 and Panc-1 cells were transfected with different siRNA interventions (Si NC, Si LINC00857) and the mRNA expression levels of  $\beta$ -catenin were detected using qRT-PCR in both pancreatic cancer cell lines. **D** Western blotting analysis was performed to detect the protein expression levels of  $\beta$ -catenin in CFPAC-1 and Panc-1 cells treated with different siRNA interventions (Si NC, Si LINC00857). Statistical significance is represented by \* $P < 0.05$  and \*\* $P < 0.01$ .



**Supplementary file Figure 5.** NNK promotes tumor growth by LINC00857/ $\beta$ -catenin signaling pathway in pancreatic cancer **A** CFPAC-1 and Panc-1 cells were treated with NNK (0 and 100  $\mu$  M) and the mRNA expression levels of  $\beta$ -catenin were detected using qRT-PCR in both pancreatic cancer cell lines. **B** Western blotting analysis was performed to detect the protein expression levels of  $\beta$ -catenin in CFPAC-1 and Panc-1 cells treated with NNK (0 and 100  $\mu$  M). **C** CFPAC-1 and Panc-1 cells were treated with NNK and siRNA interventions (Si NC, NNK+Si NC, NNK+Si LINC00857) and the mRNA expression levels of  $\beta$ -catenin were detected using qRT-PCR in both pancreatic cancer cell lines. **D** Western blotting analysis was performed to detect the protein expression levels of  $\beta$ -catenin, PCNA, and CyclinD in different treatment groups (Si NC, NNK+Si NC, NNK+Si LINC00857). Statistical significance is represented by \* $P < 0.05$  and \*\*\*\* $P < 0.0001$ .

