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Summary

RELATIONSHIP AND CELLULAR LOCALIZATION OF AHR AND ELAVL1 IN PANCREATIC CANCER, IN VITRO

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Pancreas

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A study in pancreatic ductal adenocarcinoma cell lines demonstrates a direct relationship between AHR and ELAVL1 proteins, with AHR blocking ELAVL1 cytoplasmic shuttling and potentially affecting chemotherapy response.

KEY POINTS

- Silencing AHR increased ELAVL1 mRNA and protein levels and increased ELAVL1 cytoplasmic localization, while silencing ELAVL1 decreased AHR mRNA and protein expression.
- Immunoprecipitation assays showed that ELAVL1 protein directly binds and stabilizes AHR mRNA.
- AHR blocks ELAVL1 shuttling from nucleus to cytoplasm, and since cytoplasmic ELAVL1 is positively associated with gemcitabine response, decreasing AHR expression might improve PDAC chemotherapy response.
- The study used two PDAC cell lines (BxPC-3 and Su.86.86) with siRNA gene silencing, fluorescent microscopy, RT-PCR, Western Blot, and immunoprecipitation techniques.
- This material is relevant for researchers investigating molecular mechanisms of chemotherapy resistance in pancreatic cancer.

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