

ANALYSIS OF GENE EXPRESSION TO ELUCIDATE THE PATHOGENESIS OF PANCREATIC SOLID PSEUDOPAPILLARY NEOPLASM

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Poster

Pancreas

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RNA sequencing of surgical tissues and patient-derived organoids from six solid pseudopapillary neoplasm cases reveals gene expression changes related to cellular localization and extracellular matrix that correlate with malignant features.

KEY POINTS

- Six pancreatic solid pseudopapillary neoplasm cases were analyzed using RNA sequencing of both surgical specimens and patient-derived organoids from tumor and normal pancreatic tissue.
- Tumors with malignant findings showed significantly larger nucleus diameter compared to those without malignant findings (mean 8.1 μm versus 5.8 μm , $p < 0.001$).
- Gene expression analysis revealed marked changes related to cellular localization, with more pronounced differences in higher-grade tumors, and similar patterns were observed in organoid models.
- Clear differences in gene expression related to extracellular matrix were identified in solid pseudopapillary neoplasms.
- The study population had a median age of 41 years with male-to-female ratio of 1:7, median tumor diameter of 34 mm, and three patients had nerve plexus or vascular invasion with one having liver metastasis.

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