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Summary

THERMAL LIQUID BIOPSY PROFILES FROM PANCREATIC CANCER PLASMA SAMPLES CLUSTERED ACCORDING TO DIAGNOSIS AND PROGNOSIS CLINICAL DATA

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A Thermal Liquid Biopsy model using differential scanning calorimetry of serum samples demonstrates diagnostic potential for pancreatic cancer and prognostic value when monitoring treatment-induced changes.

KEY POINTS

- The TLB-model built with machine learning on 212 pancreatic cancer patients versus 185 controls achieved area under the ROC curve of 0.88, specificity of 68%, and sensitivity of 89%.
- Patients with both TLB tests positive had median overall survival of 6 months versus 15 months for patients with both tests negative or second test converting to negative ($p<0.001$).
- The model was validated in an external cohort of 20 pancreatic cancer patients, showing corresponding TLB patterns.
- Changes in TLB induced by therapy correlated with overall survival outcomes, though further studies are needed to confirm whether different TLB patterns correspond to specific pathologies.

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