



EvIPqPCR, A Noninvasive Detection Method of Tumorous Extracellular Vesicles for Pancreatic Cancer Screening

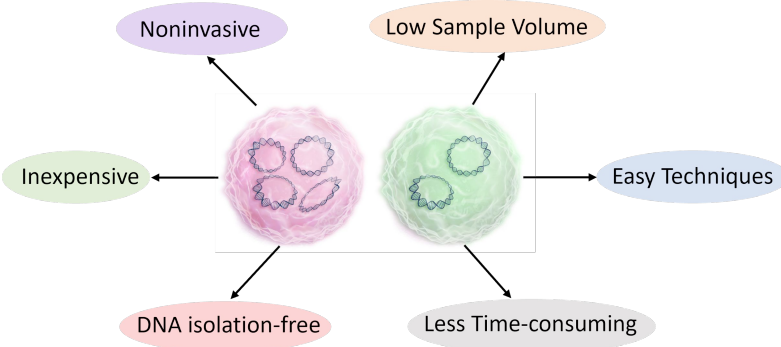
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Extracellular Vesicles

Translational Challenges

- Complex Analysis
- Invasive
- Single Marker
- Sample Volume
- Time-consuming

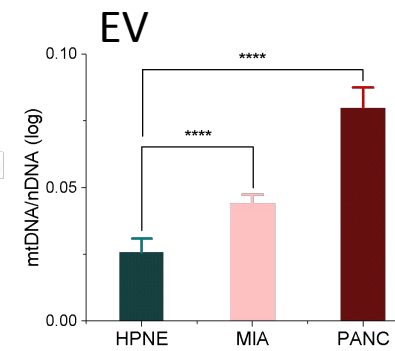
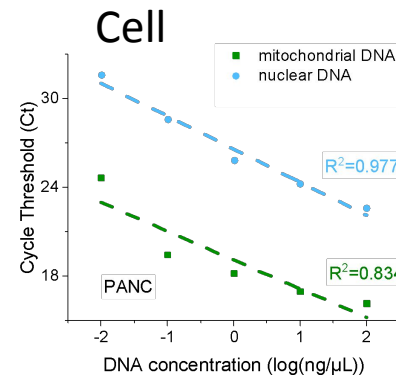
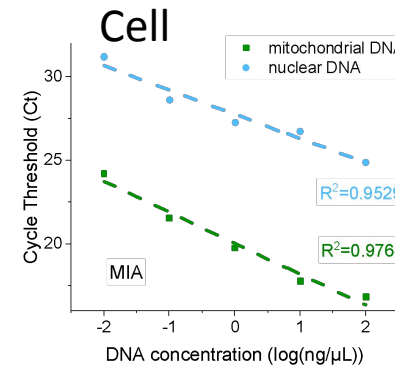
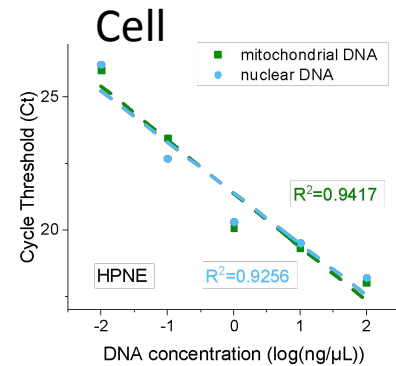
Advantages



Purpose

Rapid diagnostic method to detect cancer using tumor-derived EVs directly from patient's serum

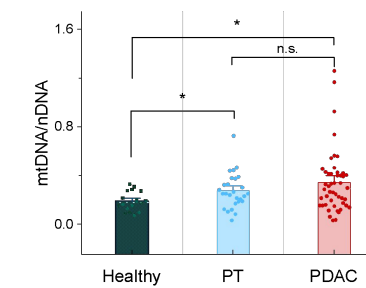
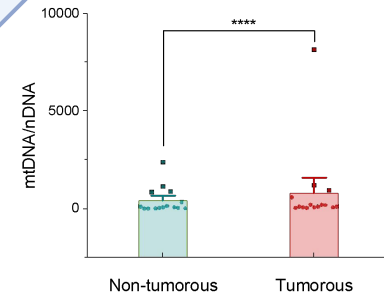
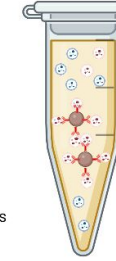
Tumor Cell and EV are Mitochondria Rich



Diagnostic Application for Cancer Screening

EvIPqPCR

- Non-tumorous EVs
- Tumorous EVs
- Anti-EpCAM
- Magnetic Beads



Correlation	
CA19-9	-0.21905 (n=15)
Stage	-0.16645 (n=15)
Grade	-0.08894 (n=15)

