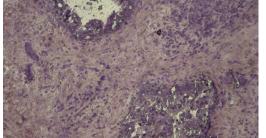


Cell-type specific microRNA/mRNA analysis in complex tissues

Pancreatic Ductal Adenocarcinoma (PDAC)





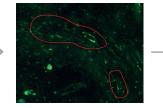


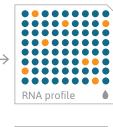
Tumor tissue

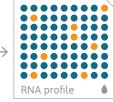


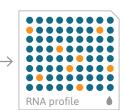


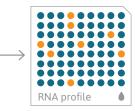










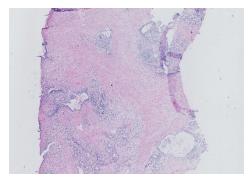




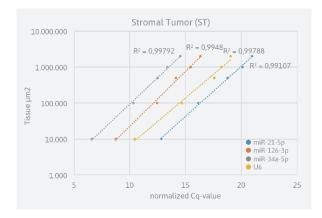
Healthy and malignant tissues are mixtures of multiple cell types:

- 1. Tumor cells
- 2. Stromal cells
- 3. Microvasculature mainly endothelial cells
- 4. Other specialized cell types
 - (e.g., Tumor Infiltrating Lymphocytes)

Compartmentalization of tissue to disentangle tissue heterogeneity and sensitive analytical methods are essential to obtain interpretable results from tissue analysis.



Pancreas Ductal Adenocarcinoma (PDAC)

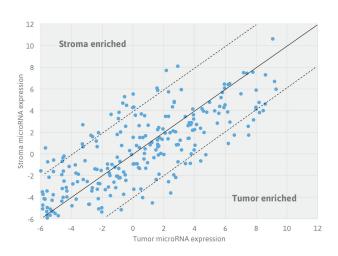


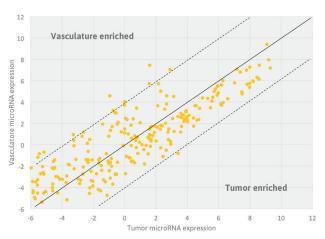
How low can we go

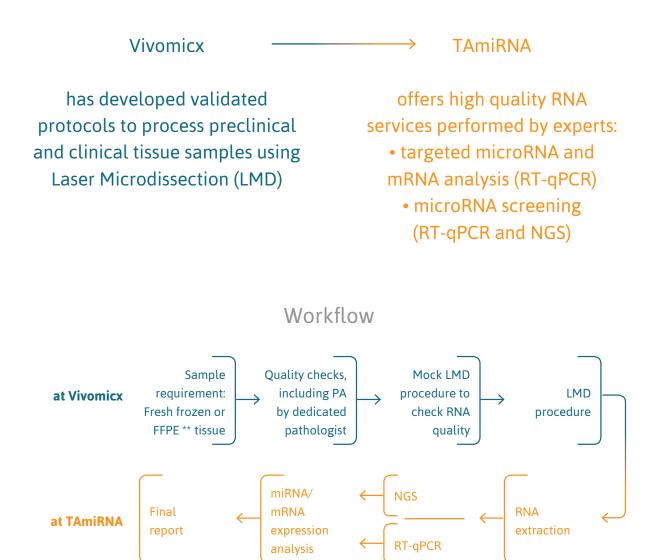
We can isolate high quality RNA successfully even from small (1x10⁴ – 2x10⁶ µm²) tissue samples

Using this protocol we have demonstrated:

- a profound difference in RNA expression signatures between whole tumor and subsets of cell types within the tumor and
- large heterogeneity in RNA expression signatures between tumor, stroma and tumor endothelial cells*.

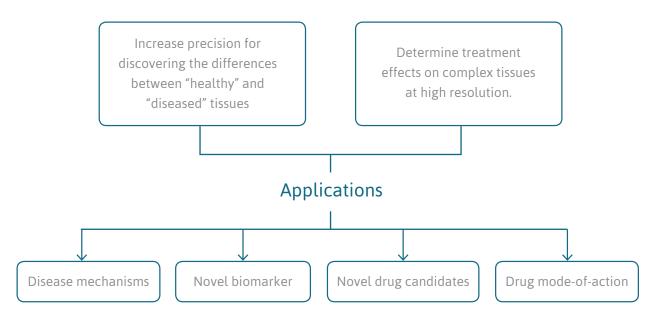






** For FFPE samples – please contact us!

LMD & RNA expression analyses enables to:





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