SUPPLEMENTARY FIGURE 1

Discovery

Two genome-wide microarray-based tissue circRNA expression dataset
GSE83521 (N = 12) and GSE89143 (N = 6)

Differential expression analyses by Limma

Identified 10 circRNAs as candidate biomarkers (logFC>2 & adj. p value <0.05)

Pilot Tissue Validation

Validation of 10-circRNAs in tissue specimens of Gastric Cancer (GC) and adjacent normal mucosa (ANM) [n=56, GC=28, ANM=28]

Serum Translation

Serum training cohort
n=138 [GC-92, Non-disease controls-46]

Serum validation cohort
n=150 [GC-102, Non-disease controls (NDC)-48]

Performance evaluation of biomarker panel

Validation of circRNAs biomarker panel in Early stage (Stage I and II) GC specimens

Additional validation of circRNAs biomarker panel :
• Tumor histology (Diffuse and Intestinal GC)
• Pre & Post surgical serum samples of GC

Performance evaluation of circRNA biomarkers panel in different gastrointestinal Cancers
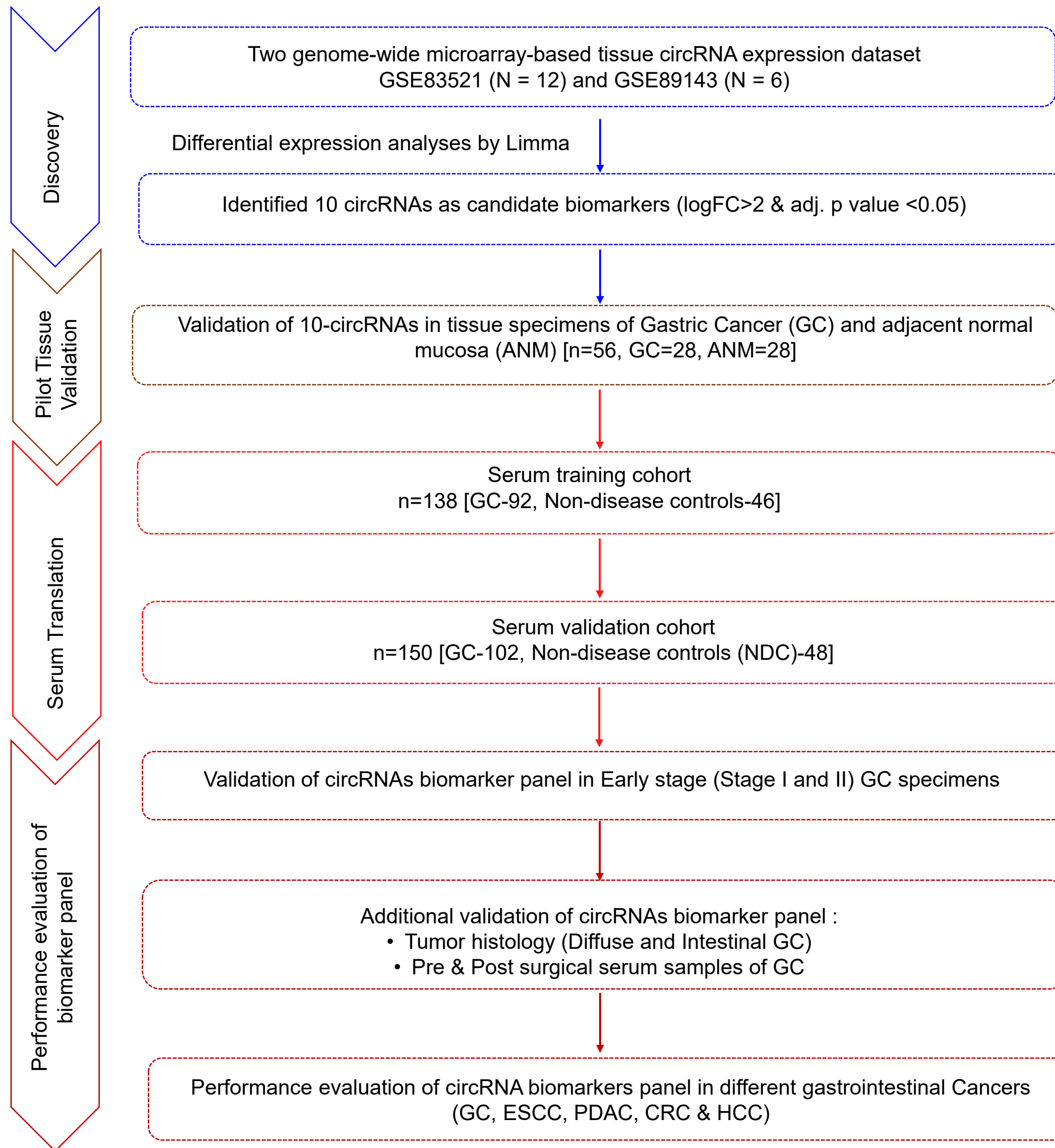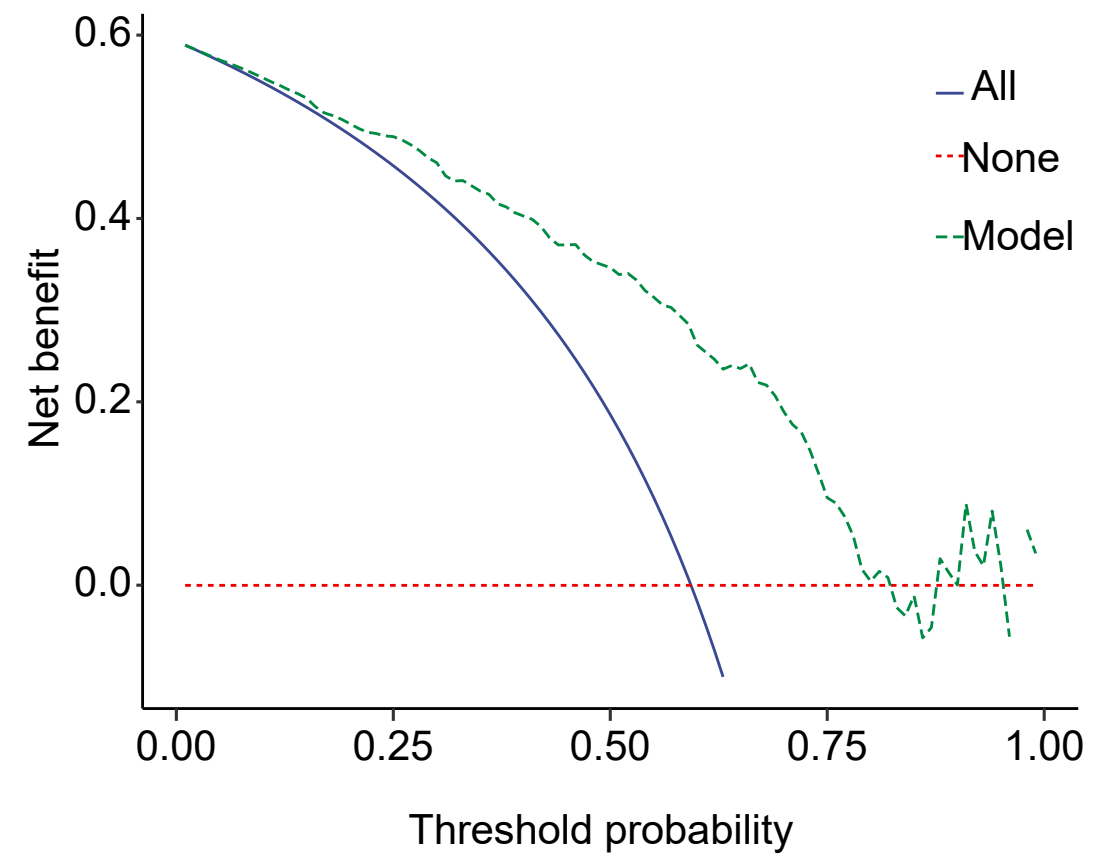(GC, ESCC, PDAC, CRC & HCC)

SUPPLEMENTARY FIGURE 2

A

Decision Curve Analysis

B

Calibration analysis