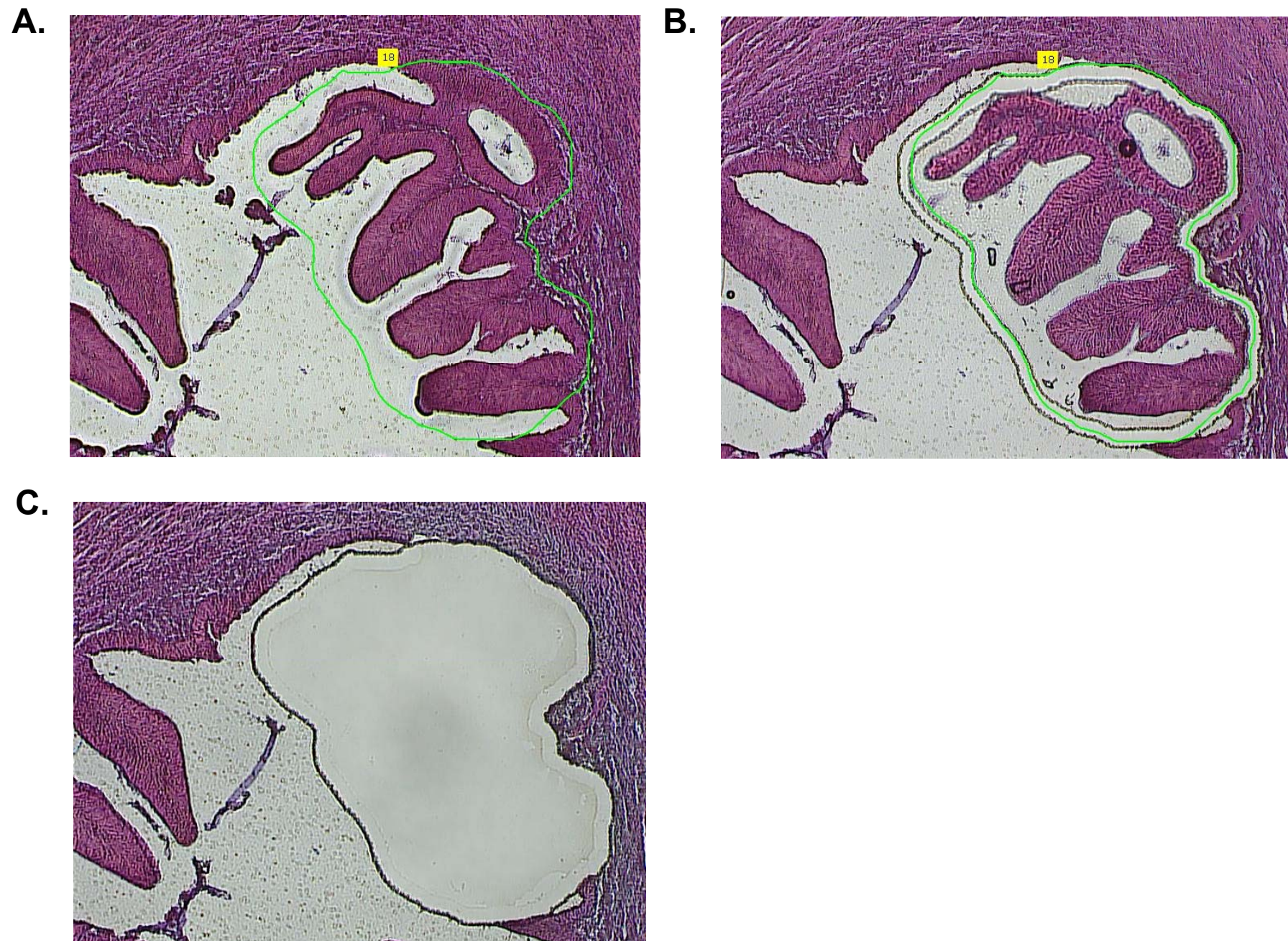


Supplemental Figure 1.



Supplemental Figure 2.

FFPE Tissue Study (FTS)

FTS1. miRNA Identification and Verification in 22 specimens: LG IPMN (10), HG IPMN (12)

- Specimen Microdissection
- Total RNA Extraction
- HT miRNA Expression Analysis (TaqMan[®] MicroRNA Arrays)¹
- Identification of miRNA candidates using bioinformatics¹ → 26 *tissue* miRNAs
- RT-qPCR verification of *tissue* miRNAs (singleplex TaqMan RT-qPCR)¹

FTS2. Independent miRNA Validation in 33 specimens: LG IPMN (6), HG IPMN (14), HG IPMN w/cancer (13).

- Specimen Microdissection
- Total RNA Extraction
- RT-qPCR validation of *tissue* miRNAs from FTS1 using singleplex TaqMan RT-qPCR¹
- Identification of miRNA candidates by bioinformatics using 23 specimens → 13 “verified” *tissue* miRNAs²

Cystic Fluid Study (CFS)

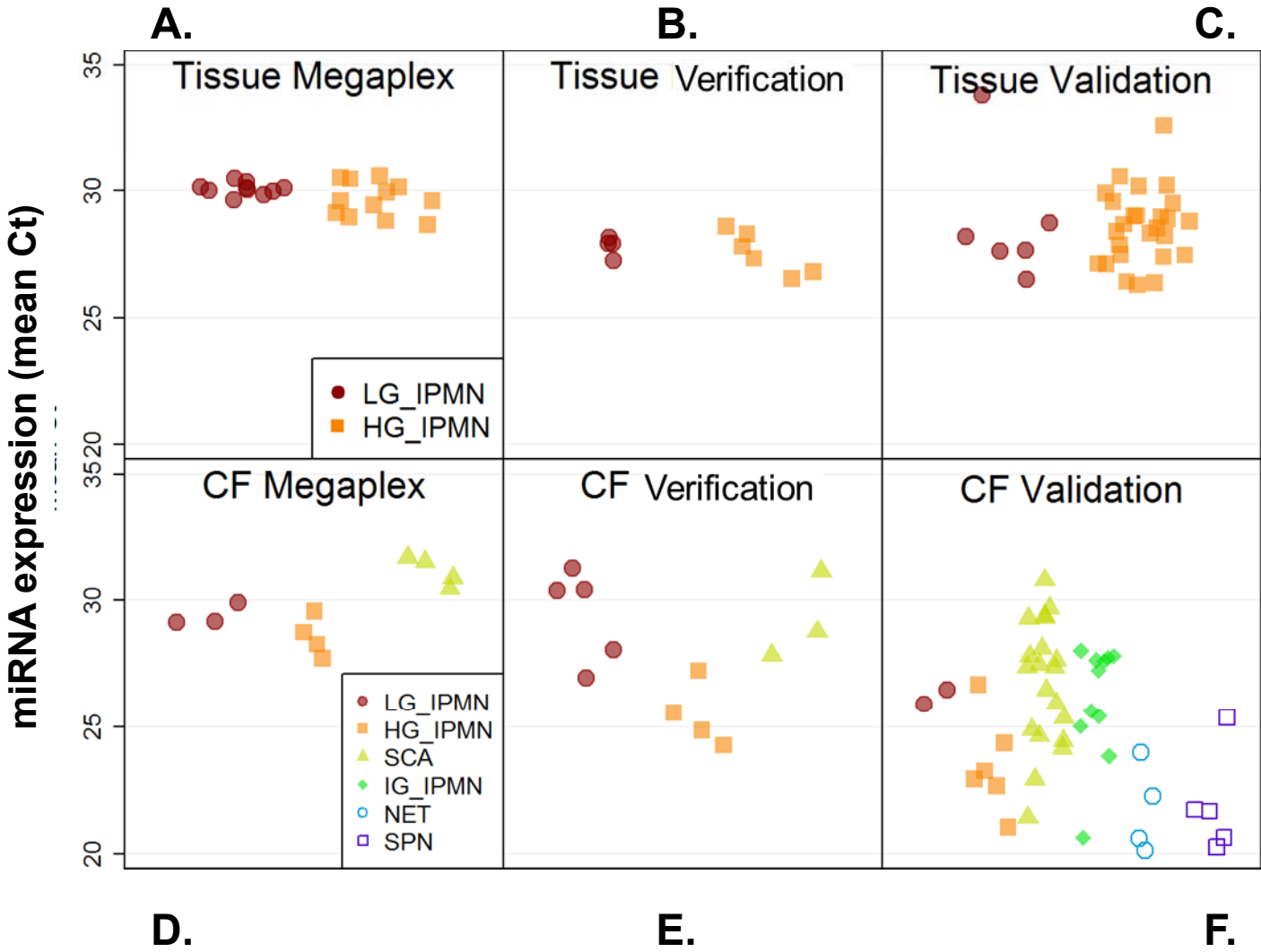
CFS1. miRNA Identification and Verification in 15 specimens: SCA (5), LG IPMN (5), HG IPMN (5)

- Total RNA Extraction
- HT miRNA Expression Analysis (TaqMan MicroRNA Arrays)¹
- Identification of miRNA candidates by bioinformatics using 11 specimens² → 37 *cyst fluid* miRNAs, containing top 13 miRNAs from 26 *tissue* miRNAs (FTS1.d)
- RT-qPCR verification of *cyst fluid* miRNAs by singleplex TaqMan RT-qPCR → 18 “verified” *cyst fluid* miRNAs²

CFS2. Independent miRNA Validation in 50 specimens: LG IPMN (2), IG IPMN (12), HG IPMN (5), HG IPMN w/cancer (1), SCA (20), NET (5), SPN (5)

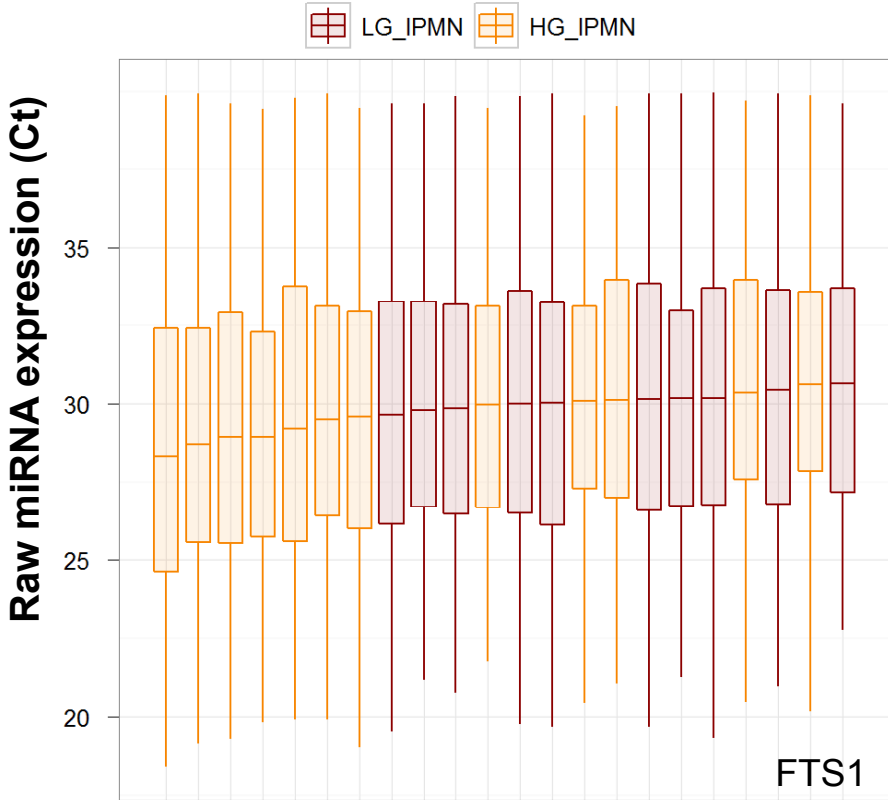
- Total RNA Extraction
- RT-qPCR validation of 18 “verified” *cyst fluid* miRNAs + miR-21 by singleplex TaqMan RT-qPCR using 49 specimens²
- Logistic regression model: combined specimens from CFS1 (9) + CFS2 (12) for training set, and CFS2 (37) for test set → 9 miRNA model²

Supplemental Figure 3.

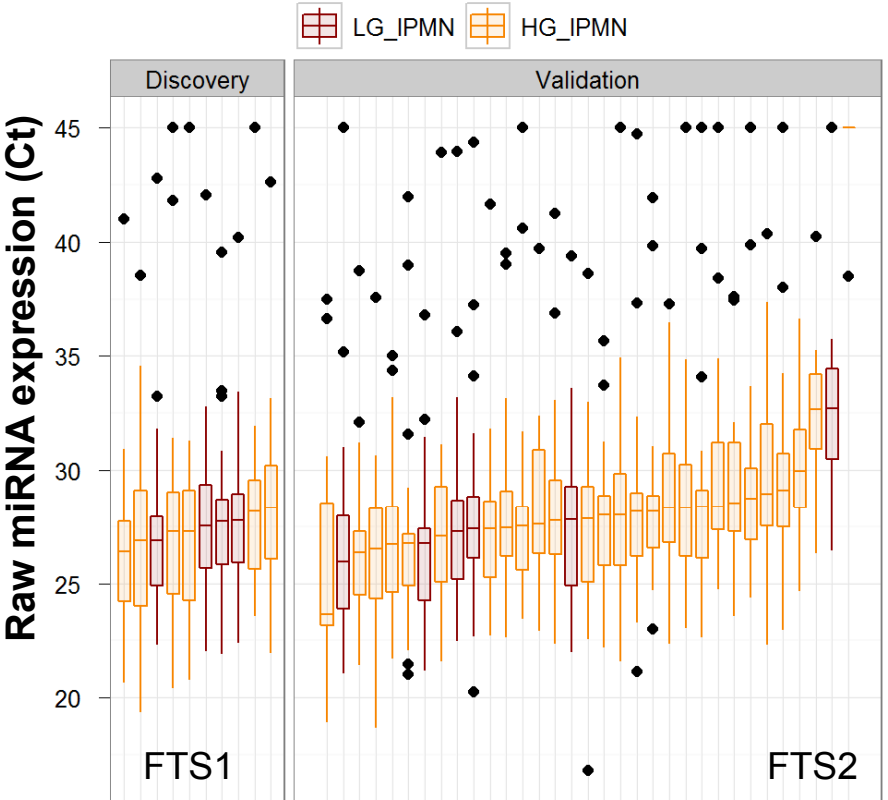


Supplemental Figure 4.

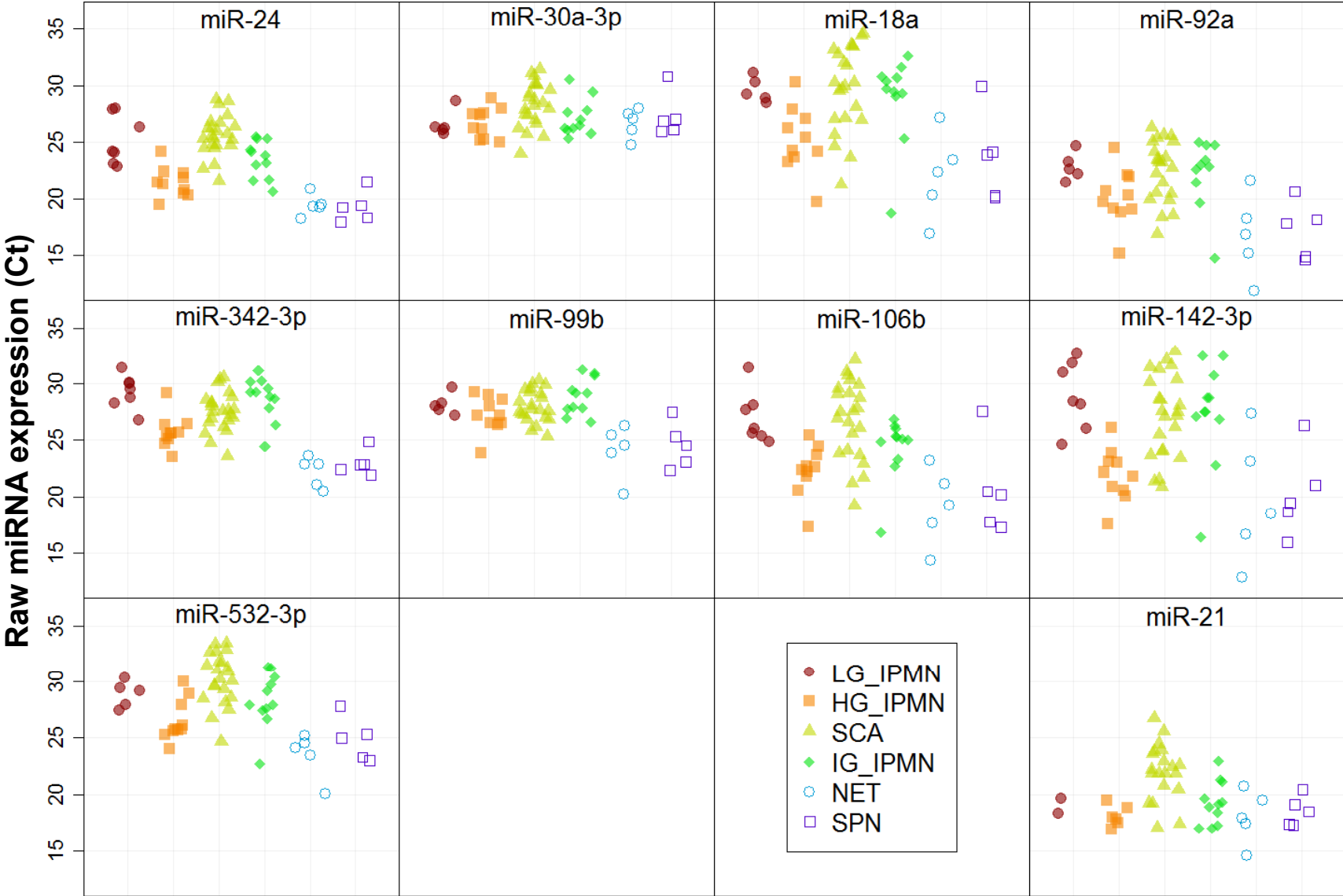
A.



B.

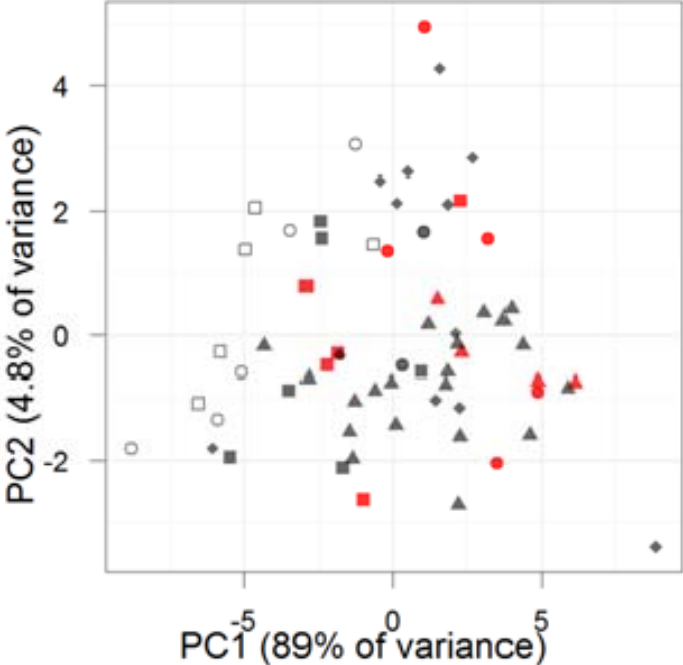


Supplemental Figure 5.

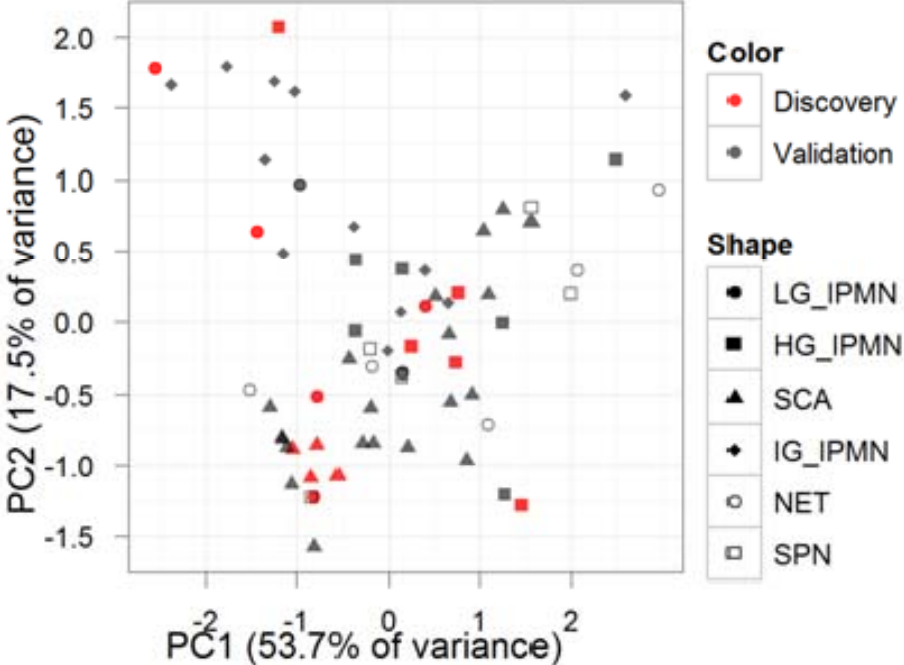


Supplemental Figure 6.

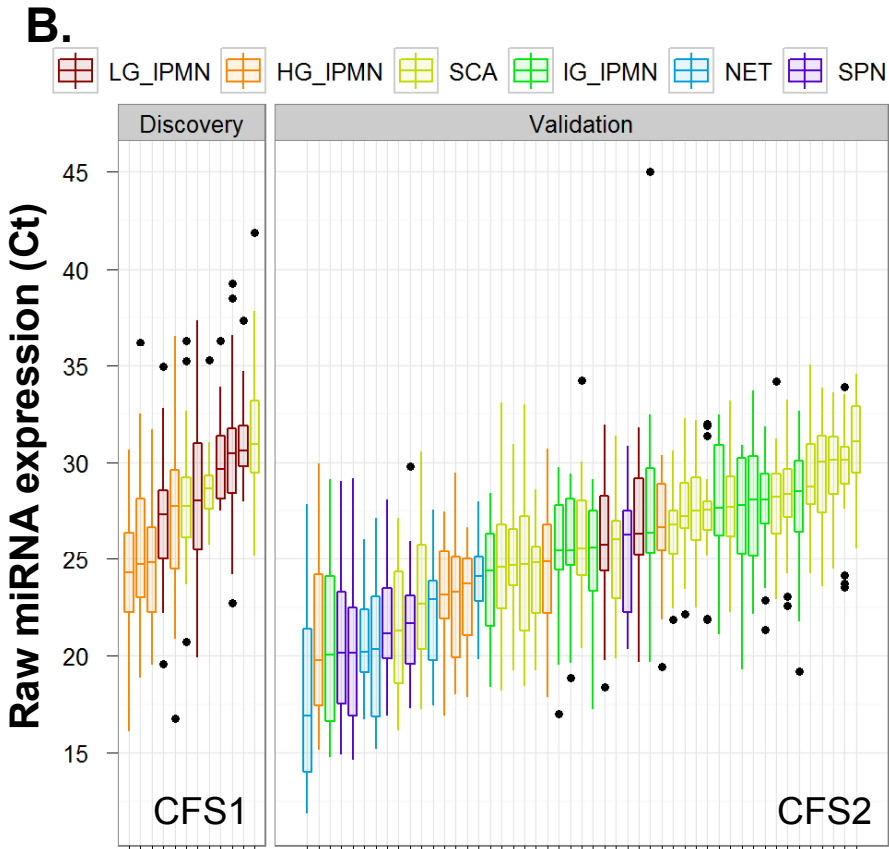
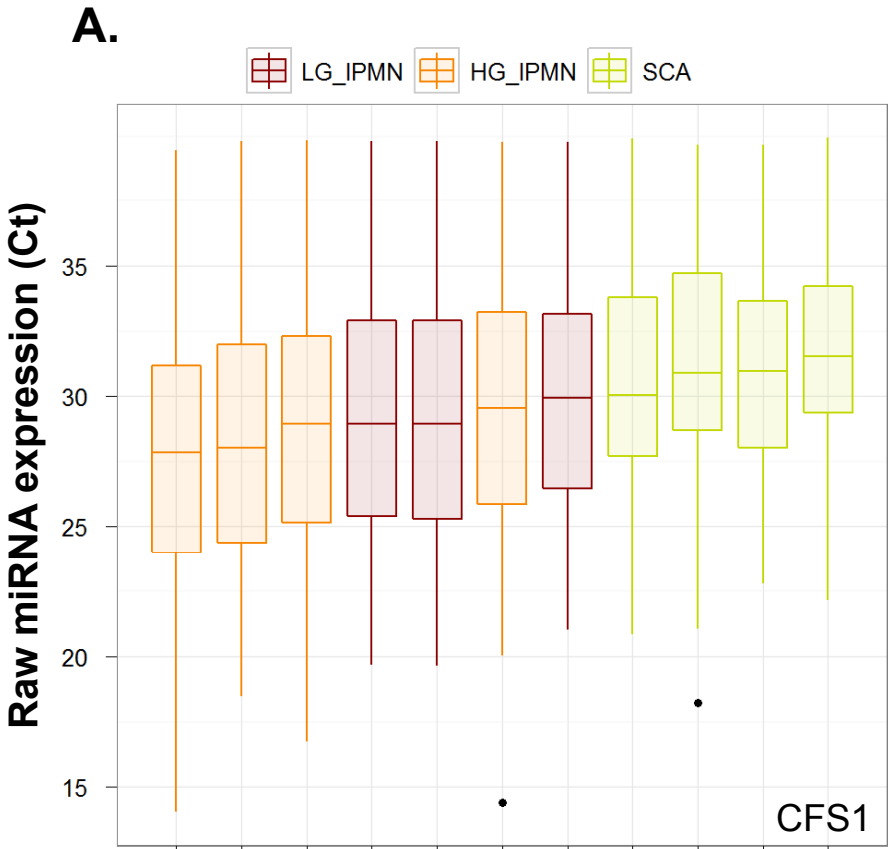
A.



B.



Supplemental Figure 7.



Supplemental Figure 8.

