

# PANC U01

## Data Analysis Update

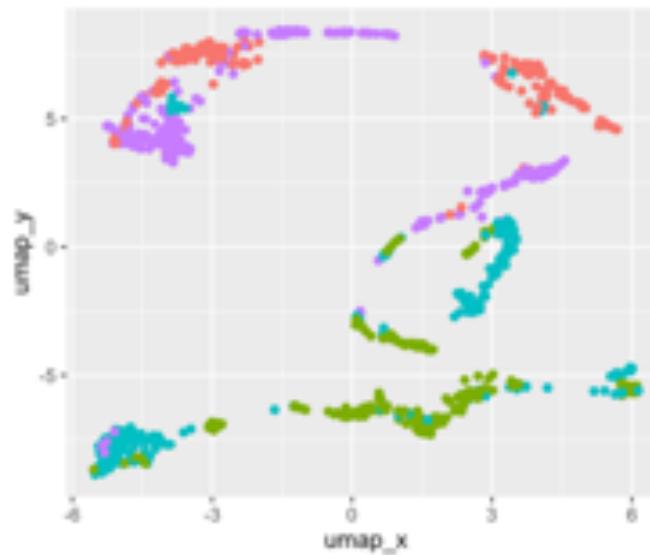
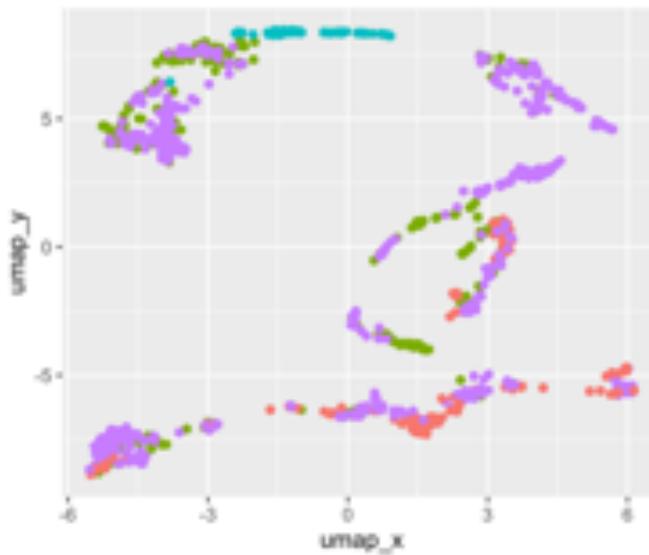
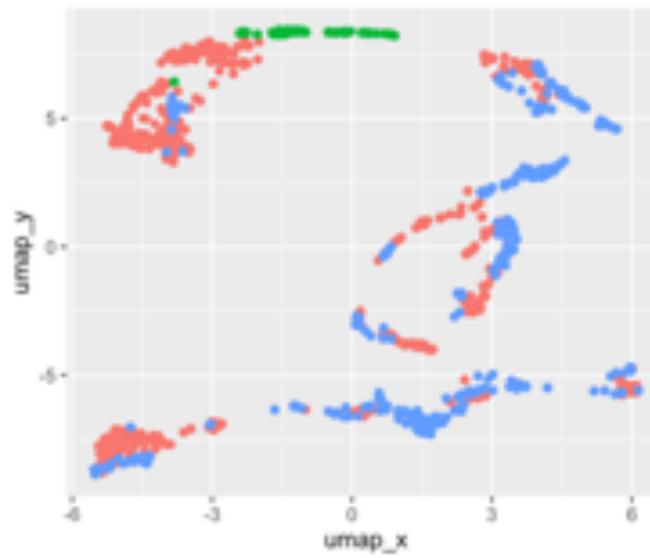
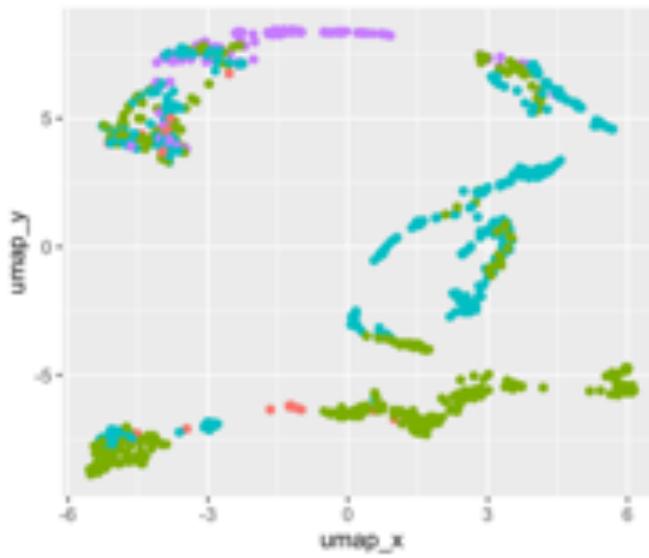
Seungchan Kim  
CCSB@PVAMU

08/18/2020

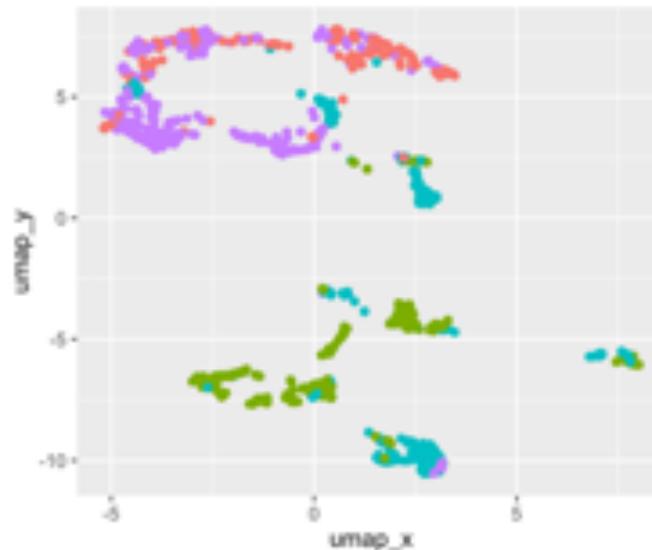
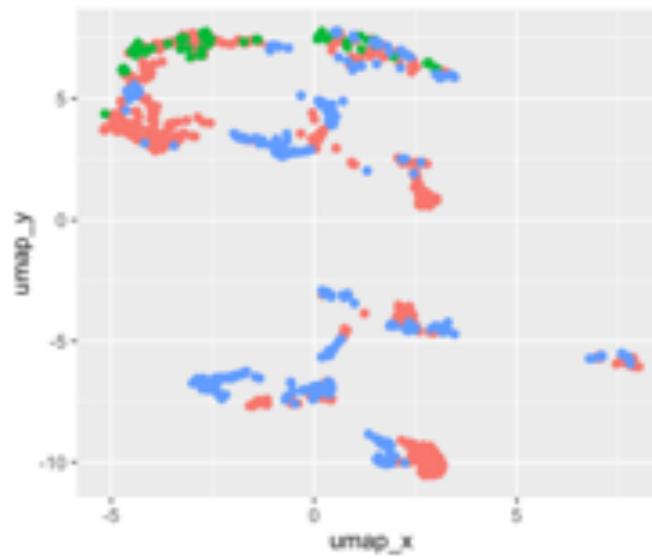
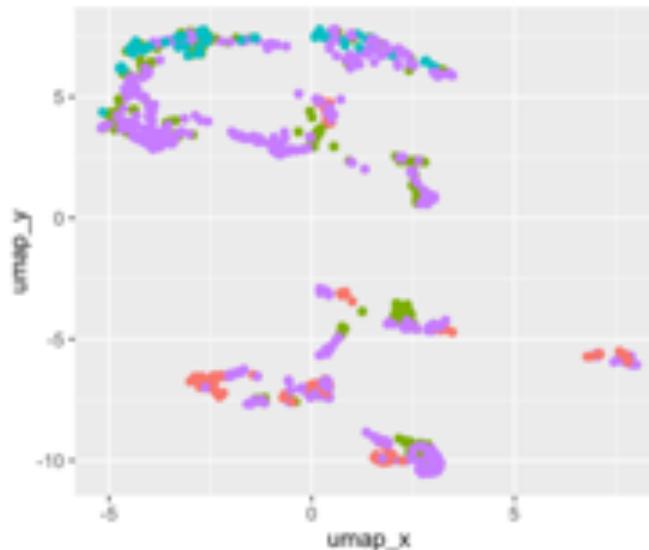
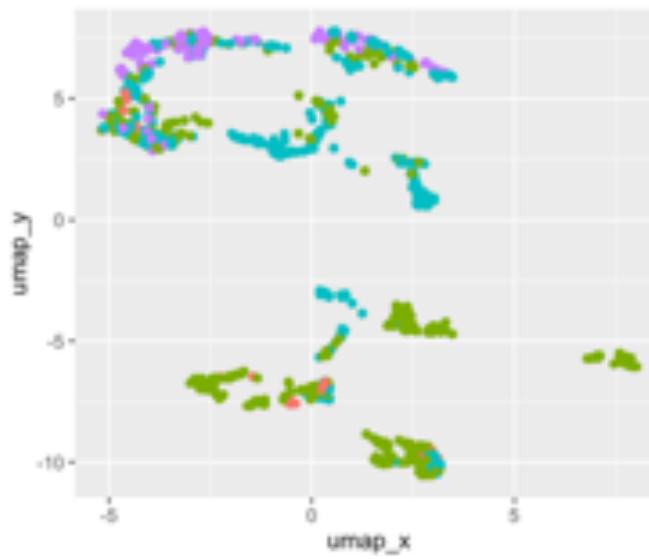
# Data

Healthy		Adj. Normal	Exosome	Plasma	Tissue
	Asan				
	MCW				
	Samsung		57	57	
IPMN		Adj. Normal	Exosome	Plasma	Tissue
	Asan	67	64	40	56
	MCW				
	Samsung				
PDAC		Adj. Normal	Exosome	Plasma	Tissue
	Asan	77	76	80	80
	MCW				
	Samsung	60	57	57	59
Normal Pancreas		Adj. Normal	Exosome	Plasma	Tissue
	Asan				
	MCW				60
	Samsung				
	<b>SUM</b>	<b>204</b>	<b>254</b>	<b>234</b>	<b>255</b>
					<b>947</b>

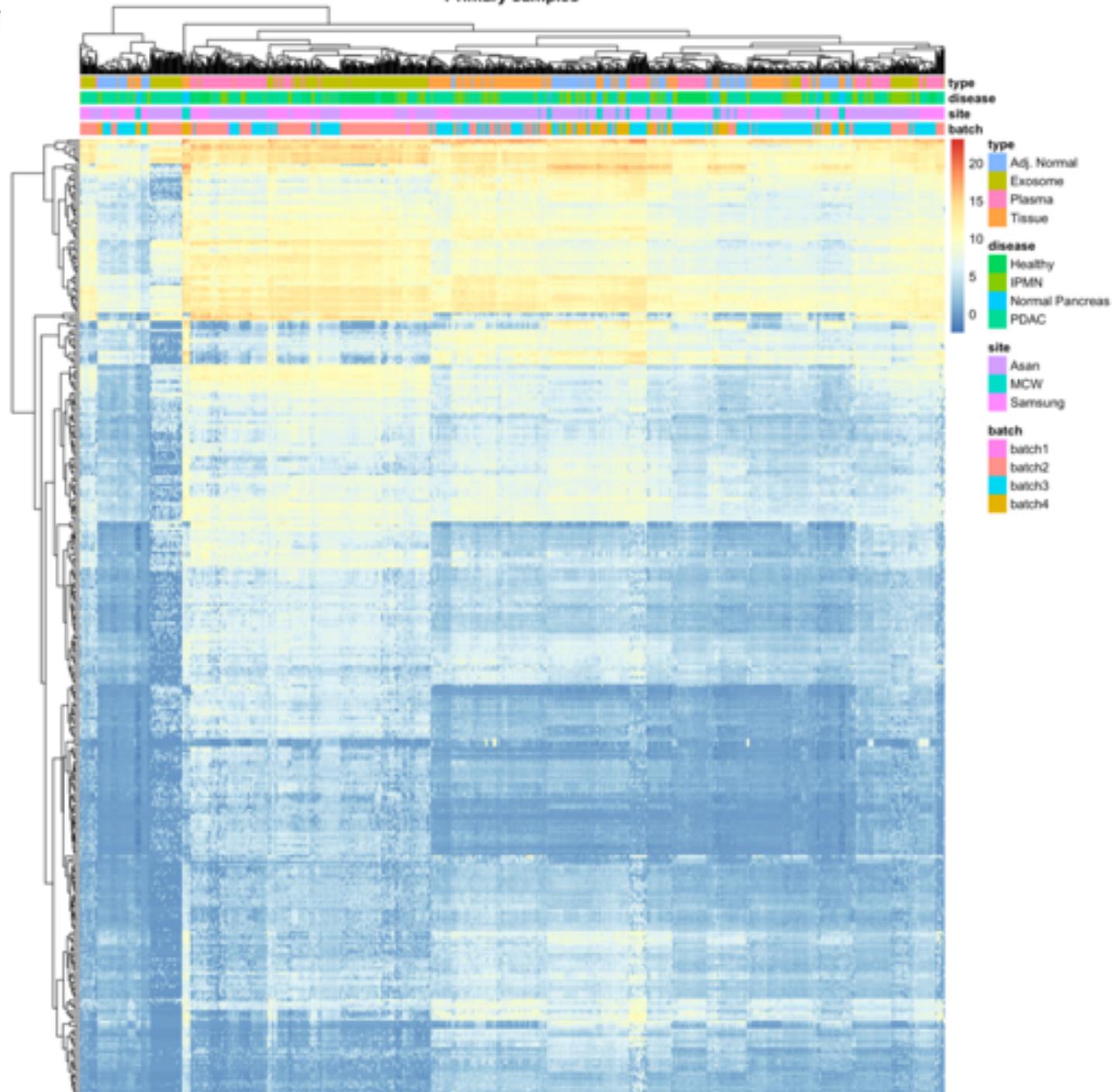
# Batch Correction: Before



# Batch Correction: After



## Primary samples



# Classification

## Tissue

	IPMN	Normal Pancreas	PDAC
ASAN	56		80
MCW		60	
Samsung			59

Normal vs. IPMN

Normal vs. PDAC

IPMN vs. PDAC

Normal vs. IPMN + PDAC

Normal + IPMN vs. PDAC

## Exosome

	Healthy	IPMN	PDAC
ASAN		64	76
Samsung	57		57

Healthy vs. IPMN

Healthy vs. PDAC

IPMN vs. PDAC

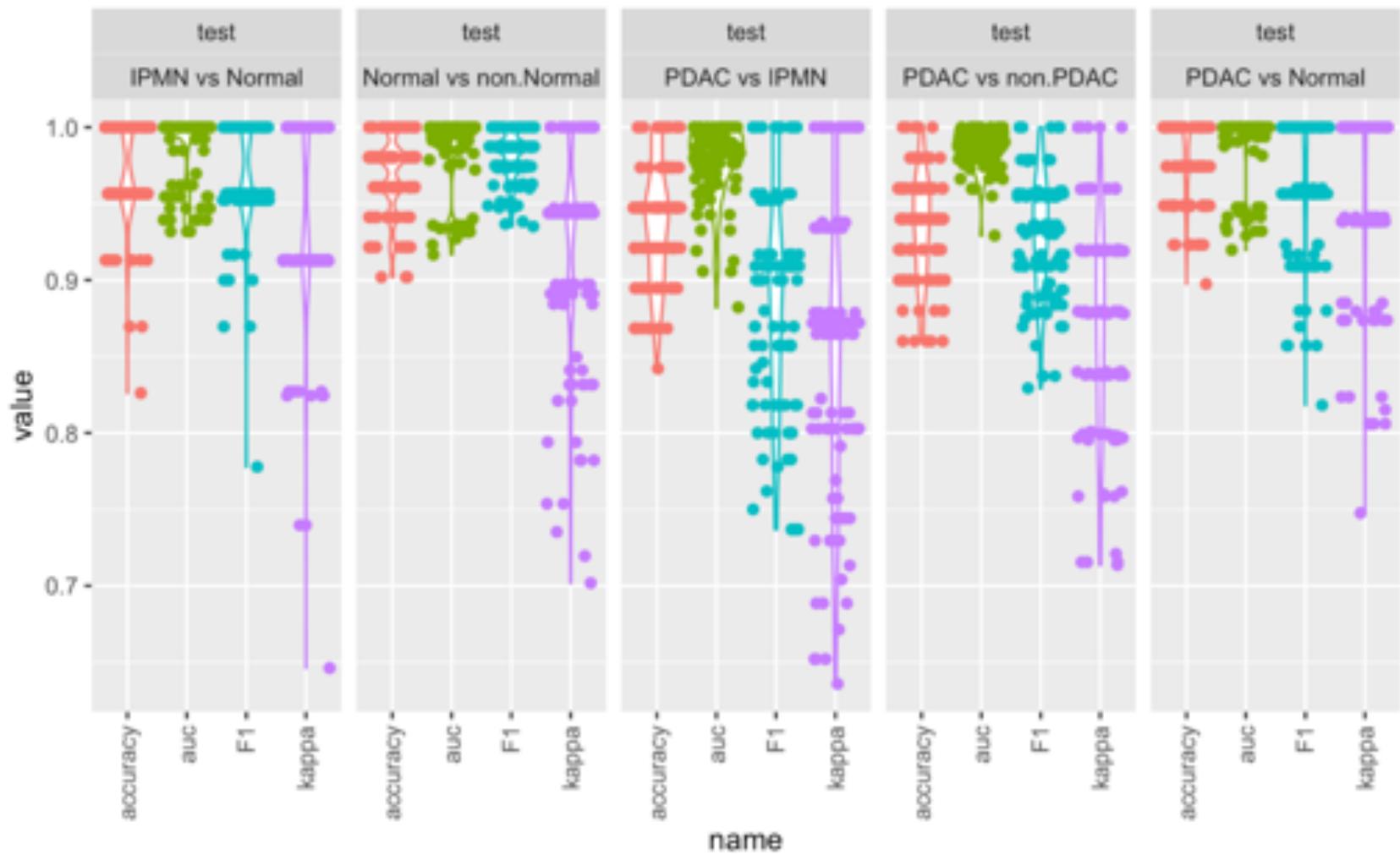
## Plasma

	Healthy	IPMN	PDAC
ASAN		40	80
Samsung	57		57

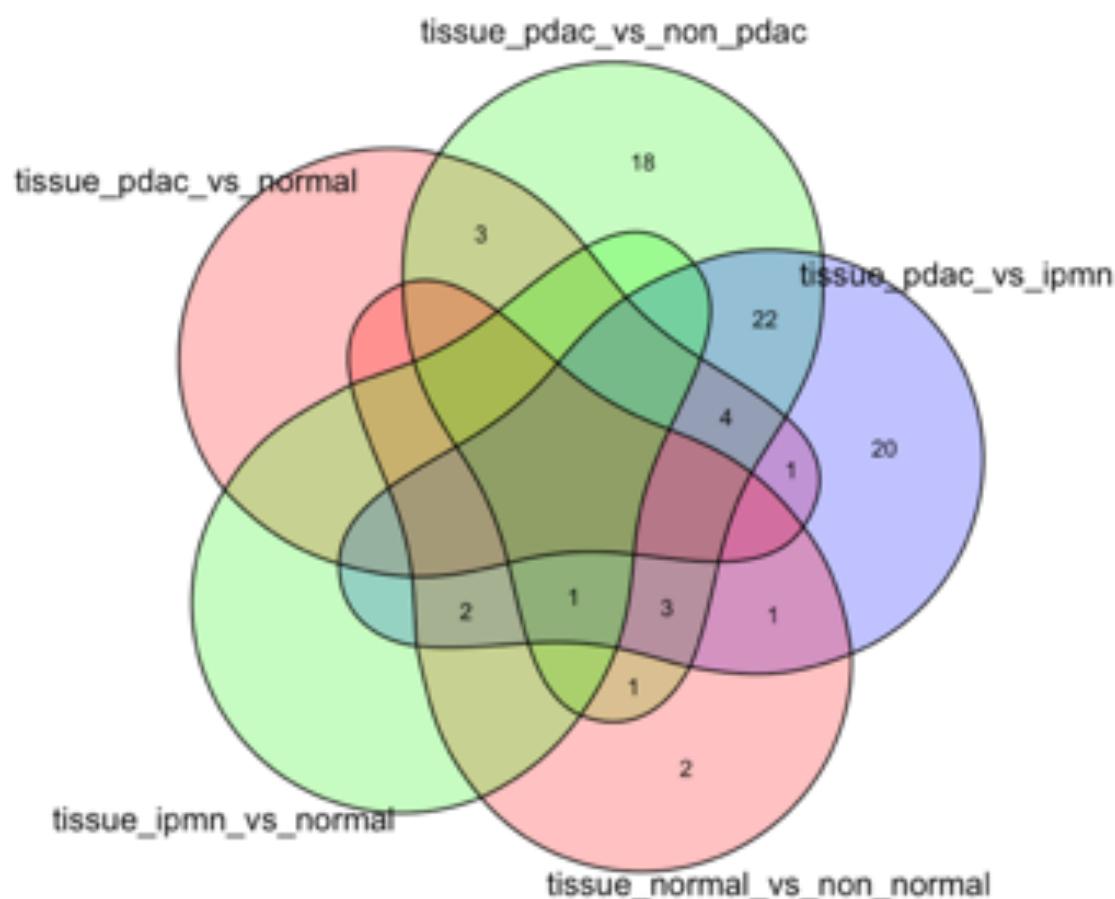
Healthy vs. IPMN + PDAC

Healthy + IPMN vs. PDAC

# Tissue: classification accuracy

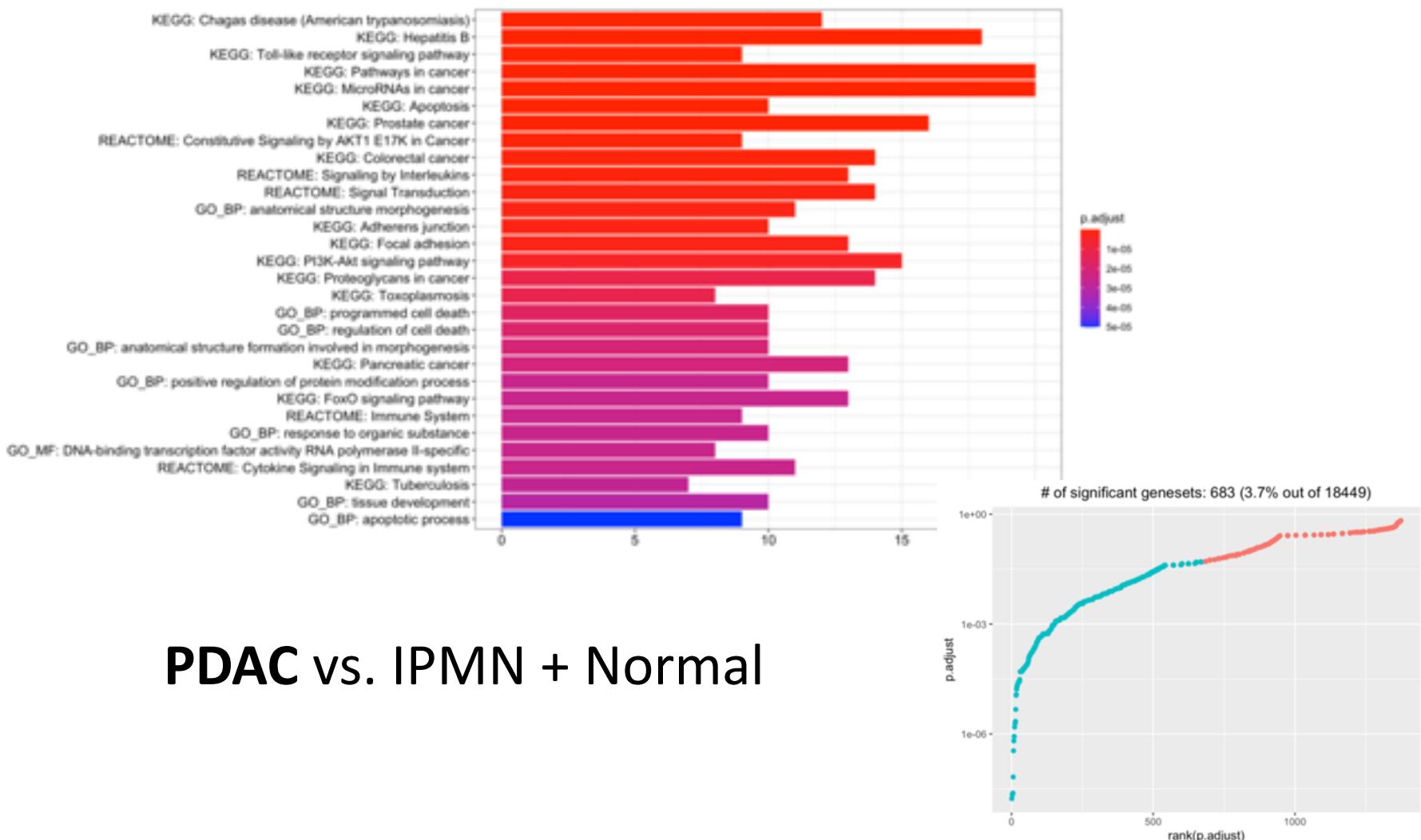


# Tissue: markers comparison

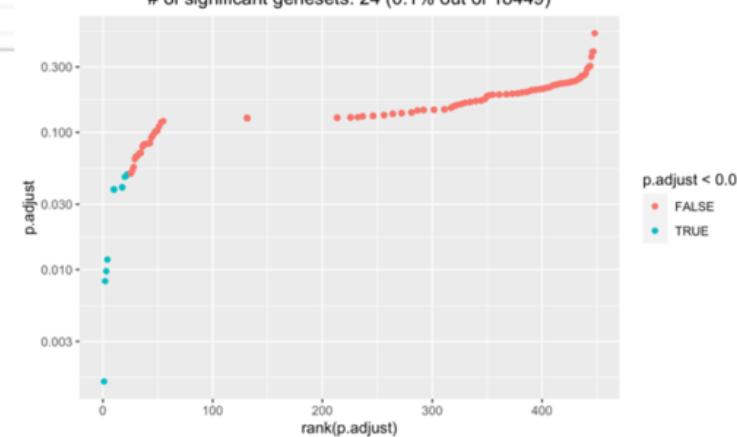
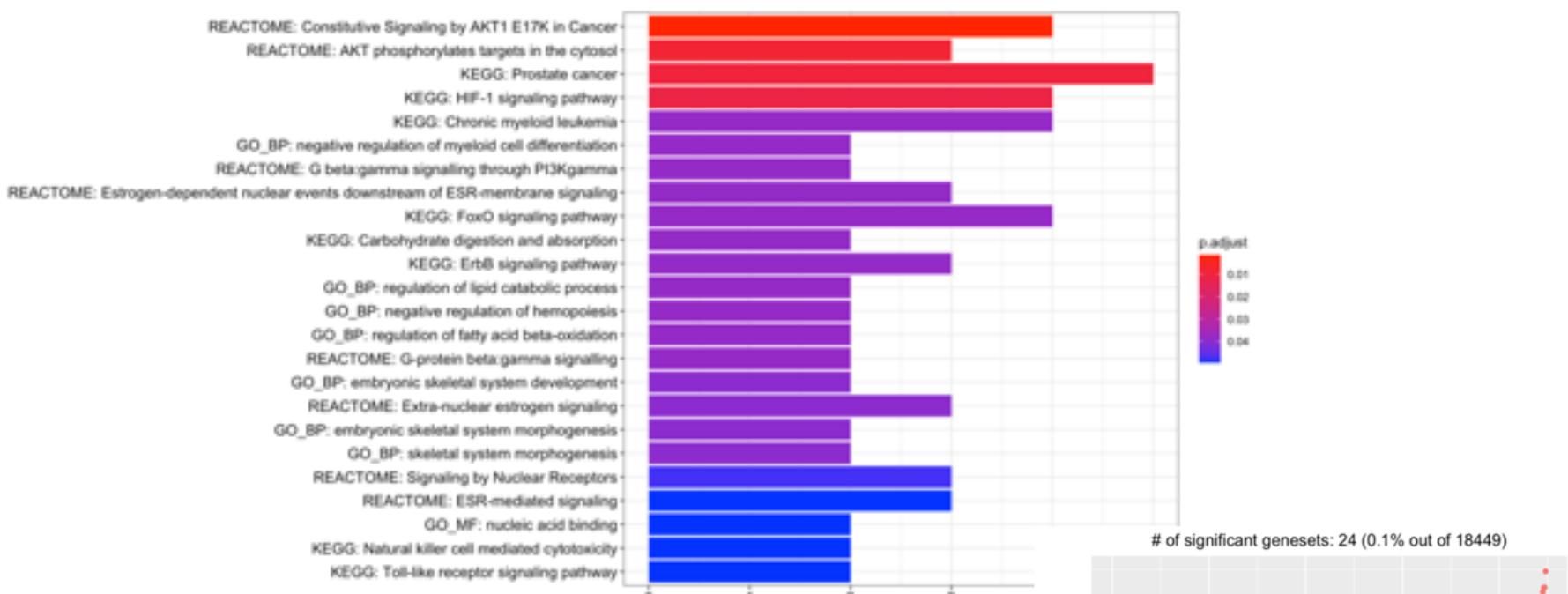


# Tissue: pathways

clusterProfiler +  
miRPathDB v2.0

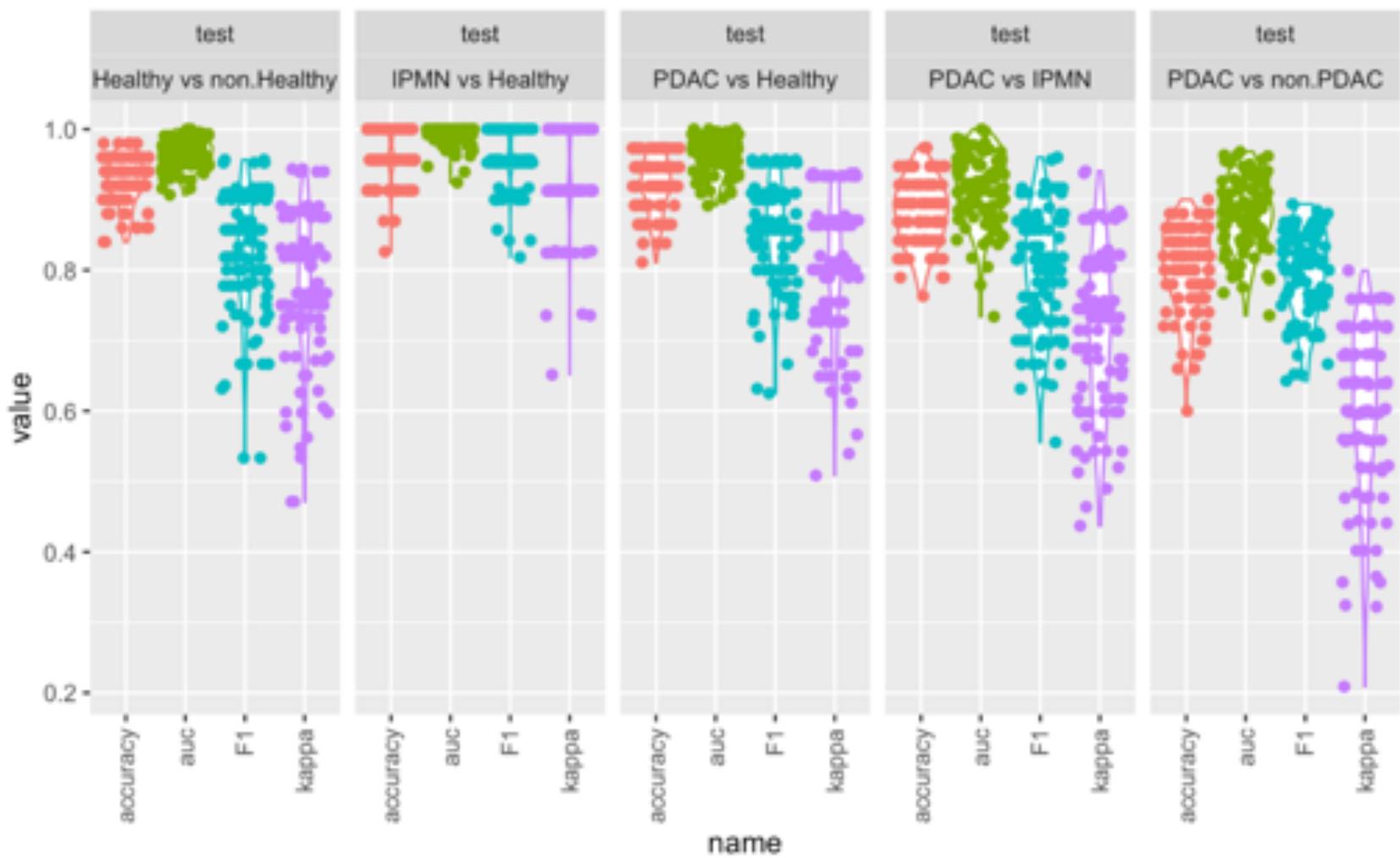


# Tissue: pathways



PDAC + IPMN vs. Normal

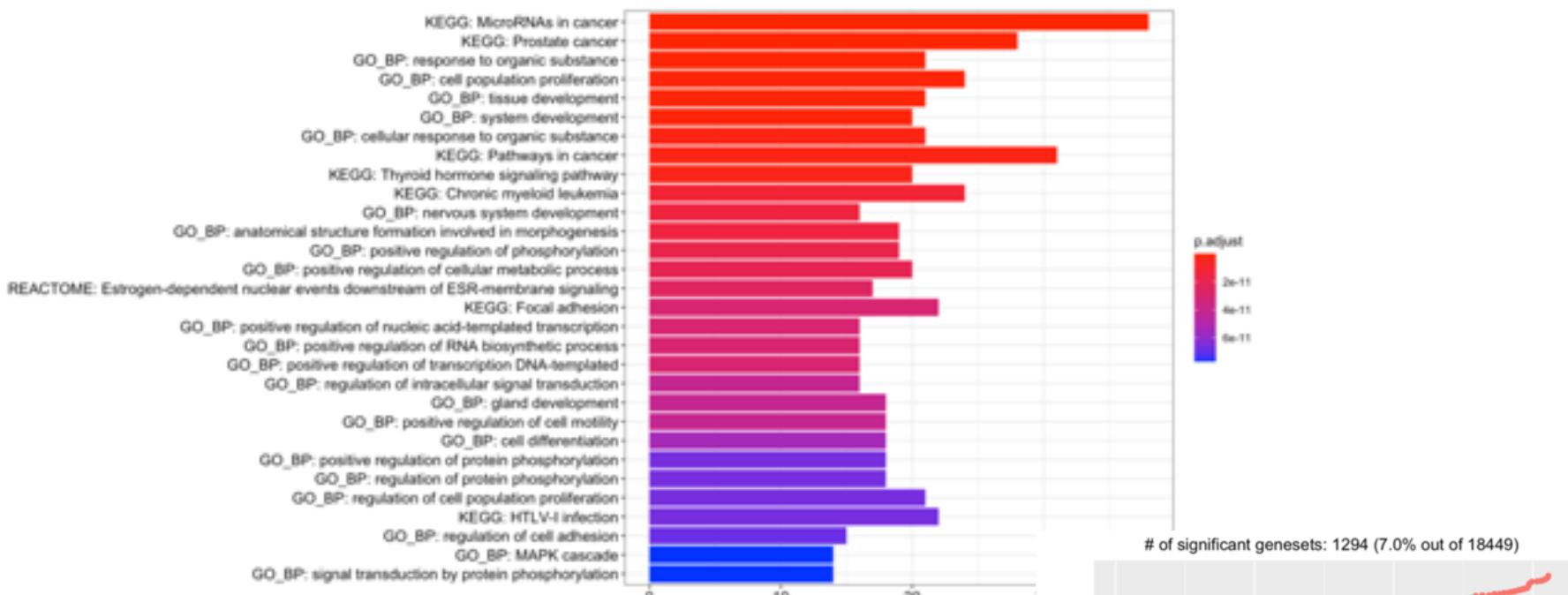
# Exosome: classification accuracy



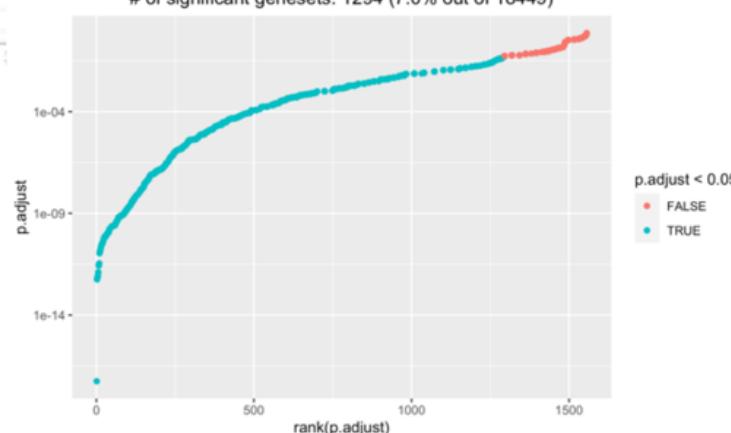
# Exosome: markers comparison



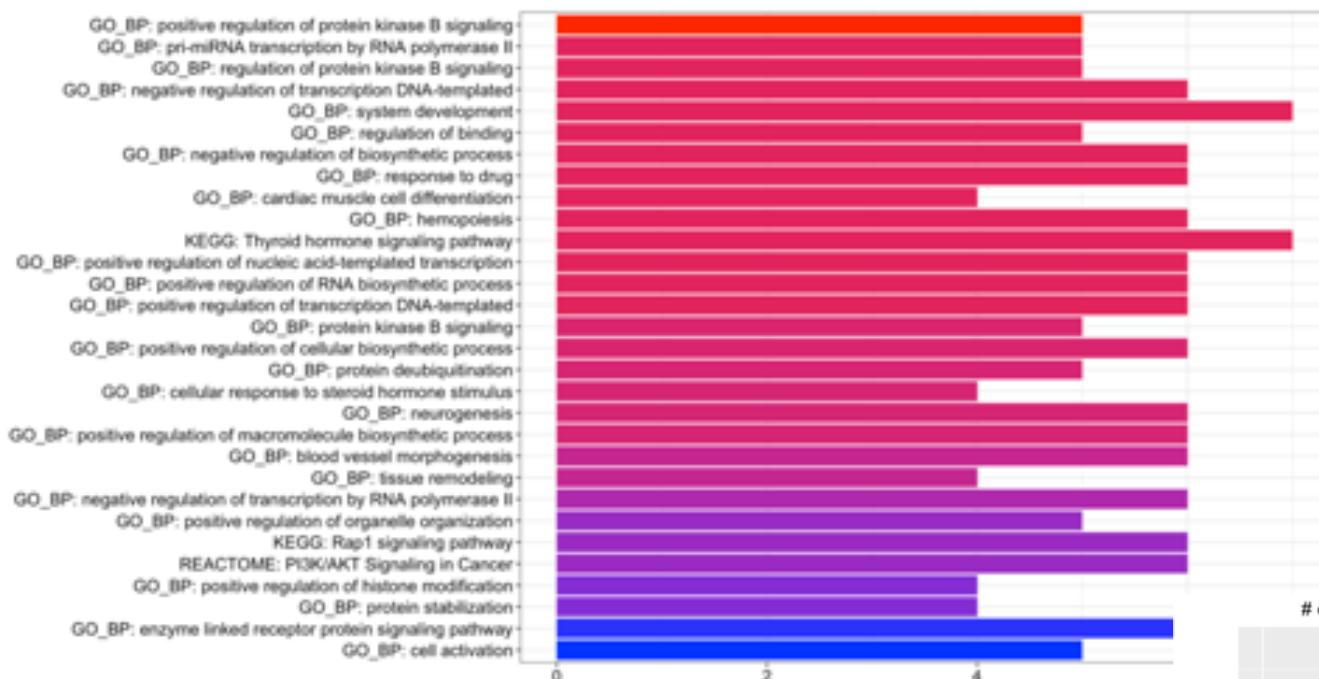
# Exosome: pathways



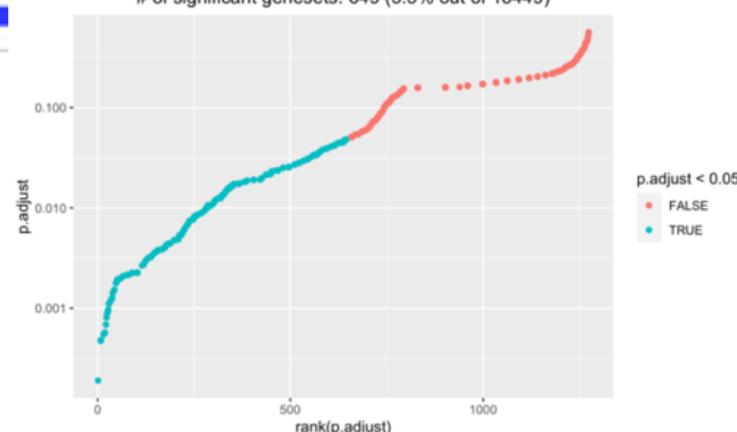
PDAC vs. IPMN + Healthy



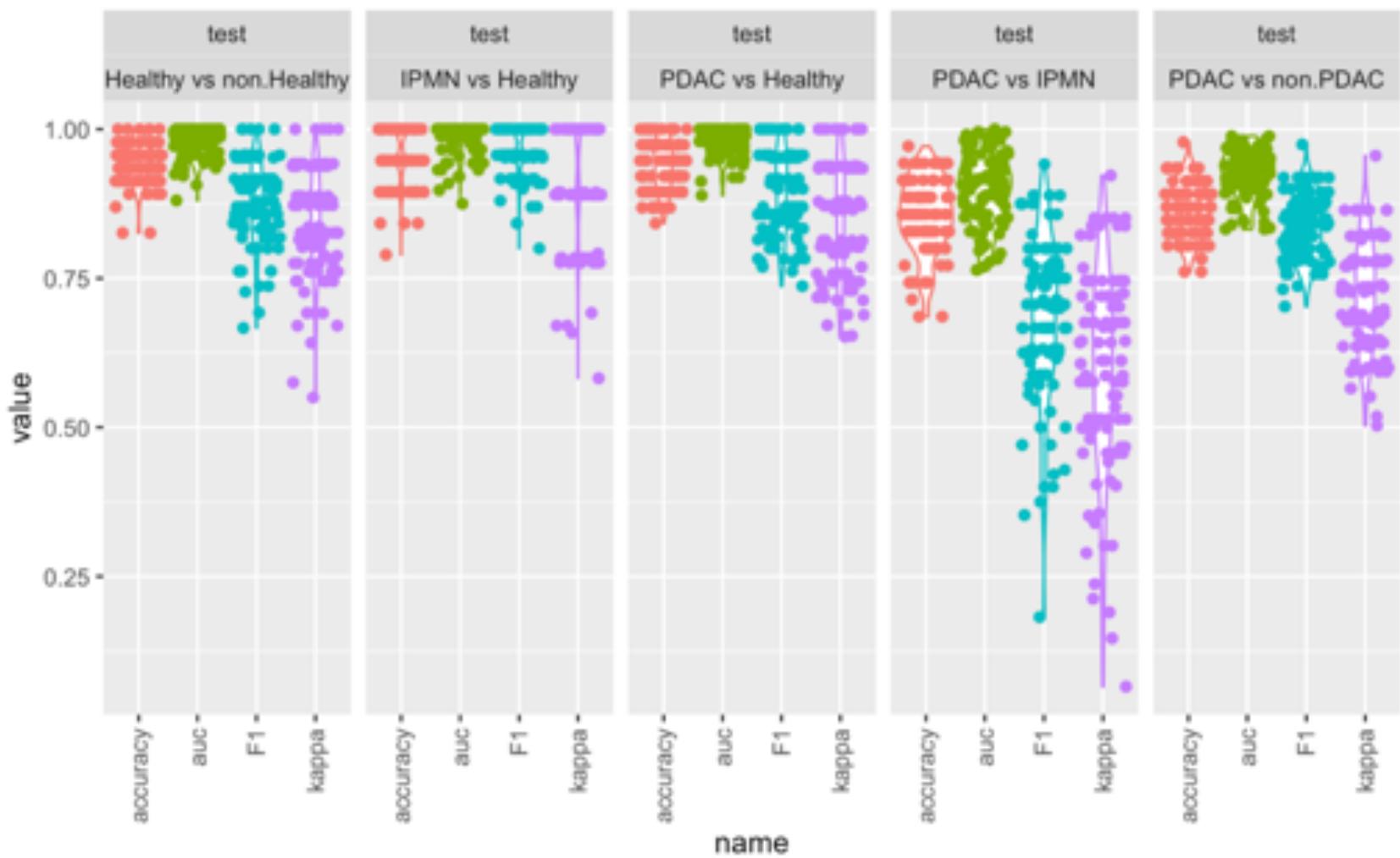
# Exosome: pathways



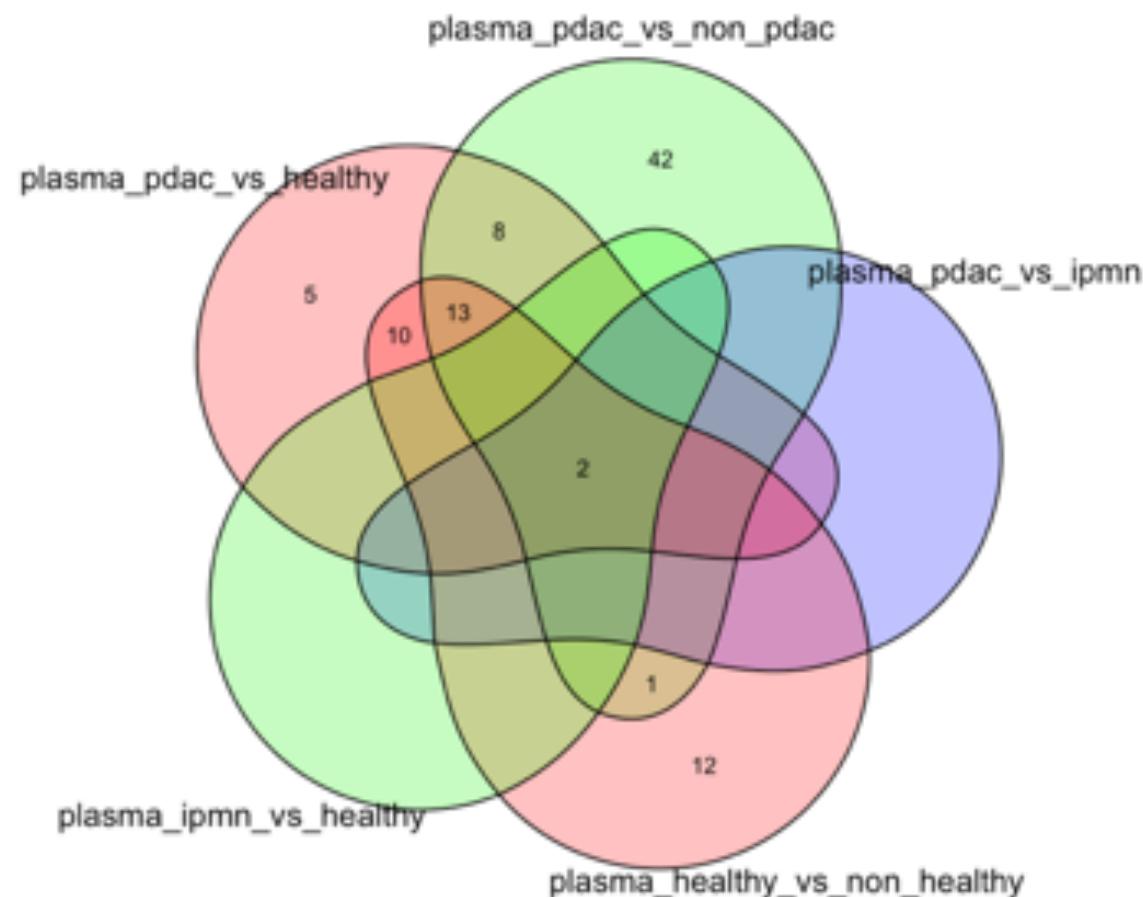
PDAC + IPMN vs. Healthy



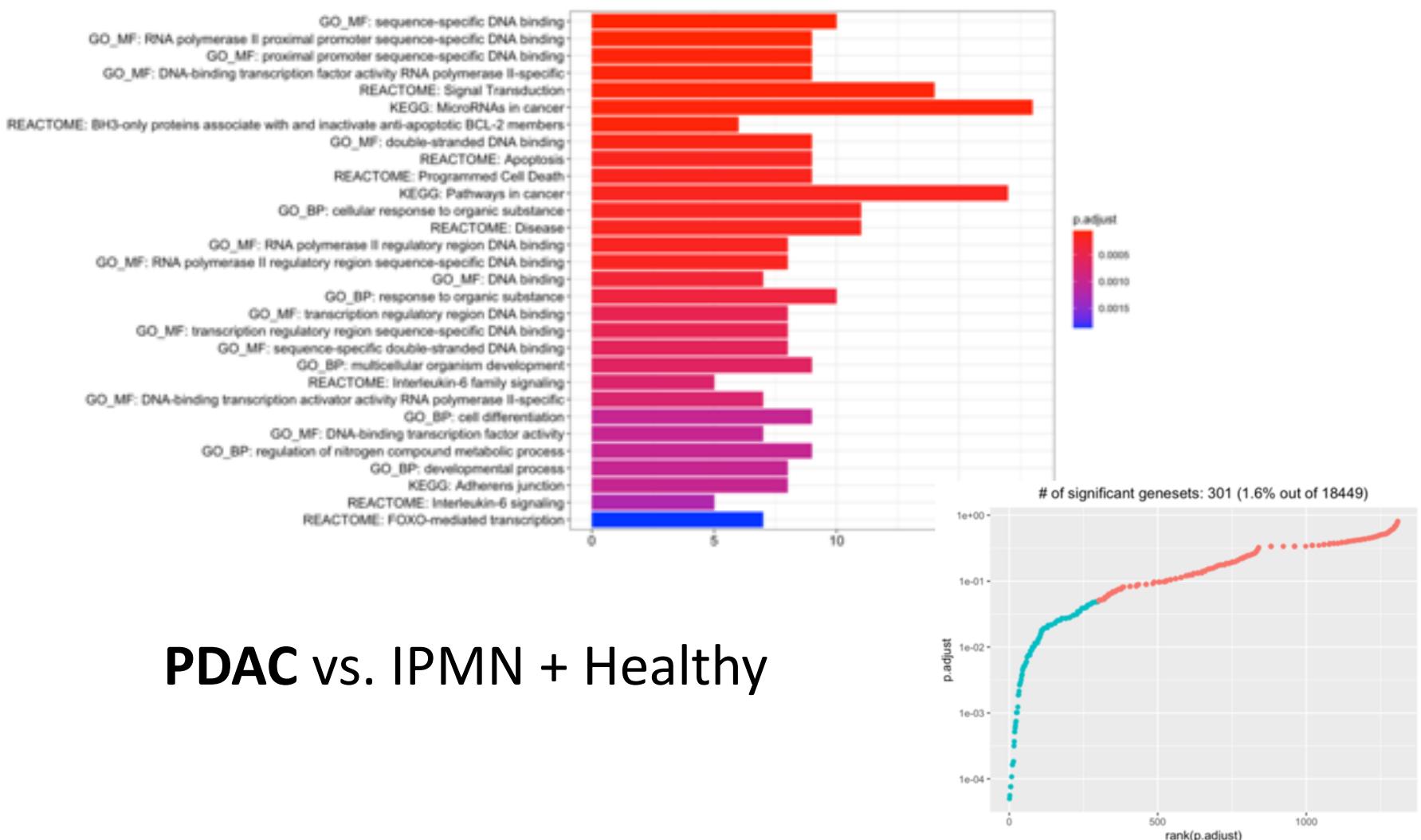
# Plasma: classification accuracy



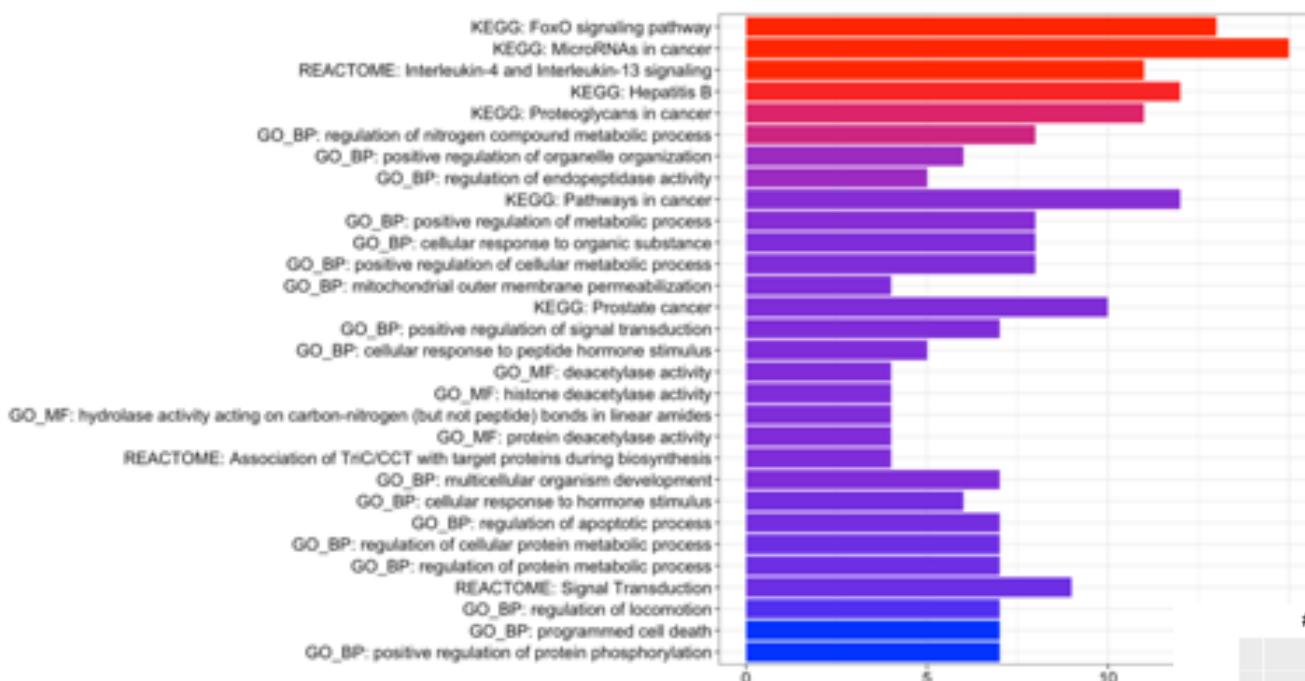
# Plasma: markers comparison



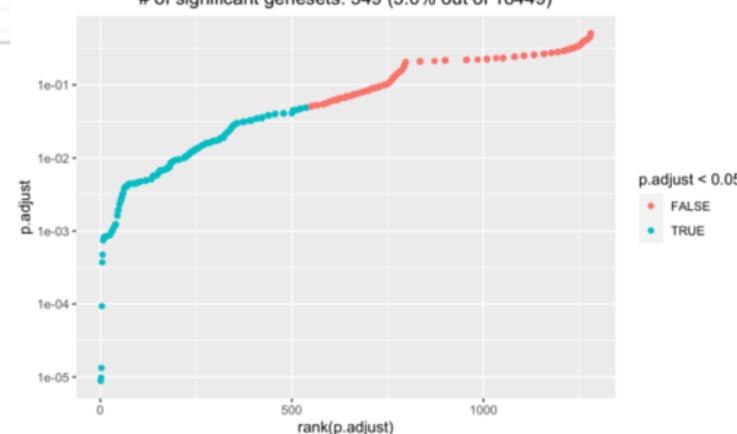
# Plasma: pathways



# Plasma: pathways



PDAC + IPMN vs. Healthy



**Tissue**

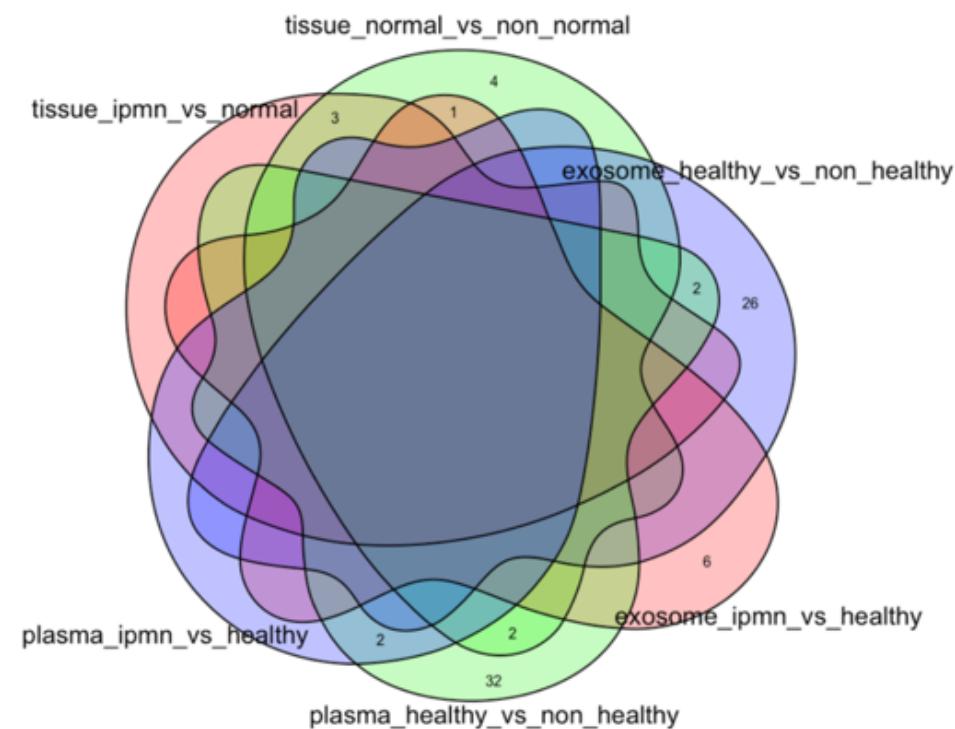
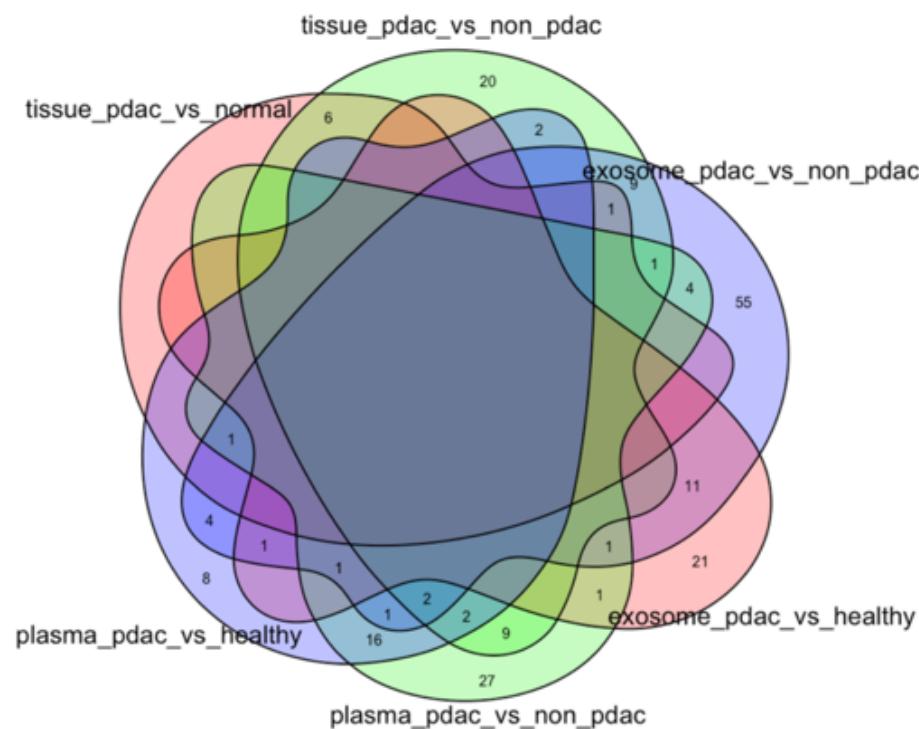
**VS.**

**Exosome**

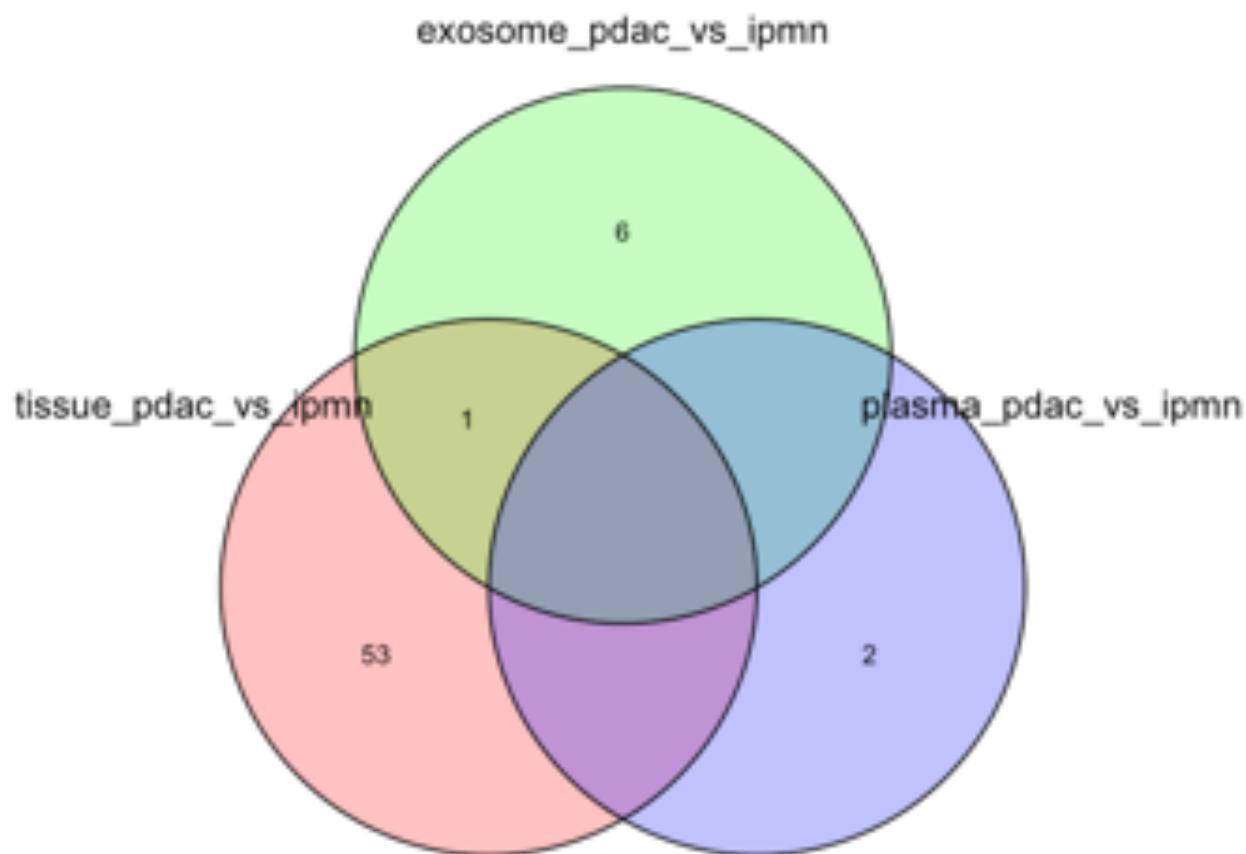
**VS.**

**Plasma**

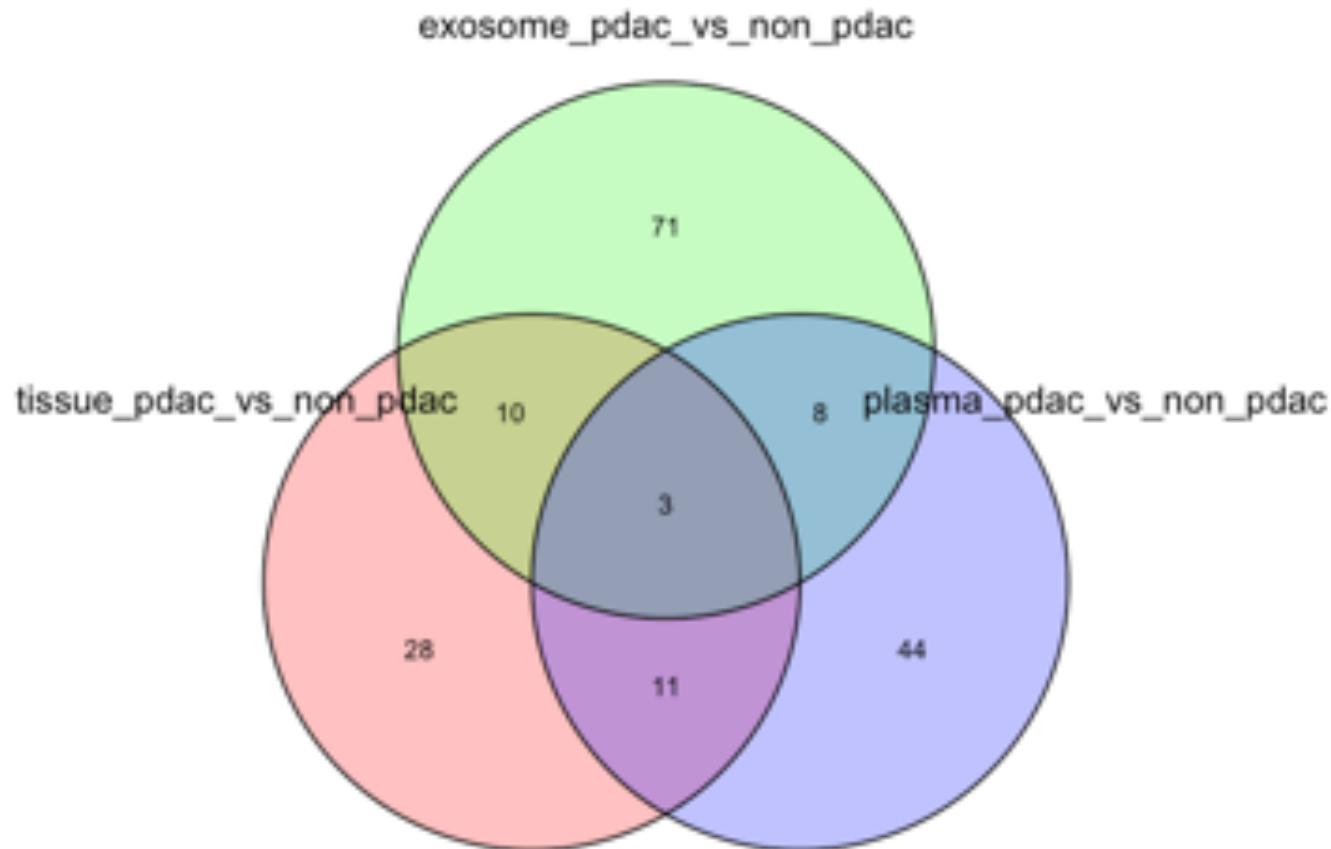
# Markers



# PDAC vs. IPMN



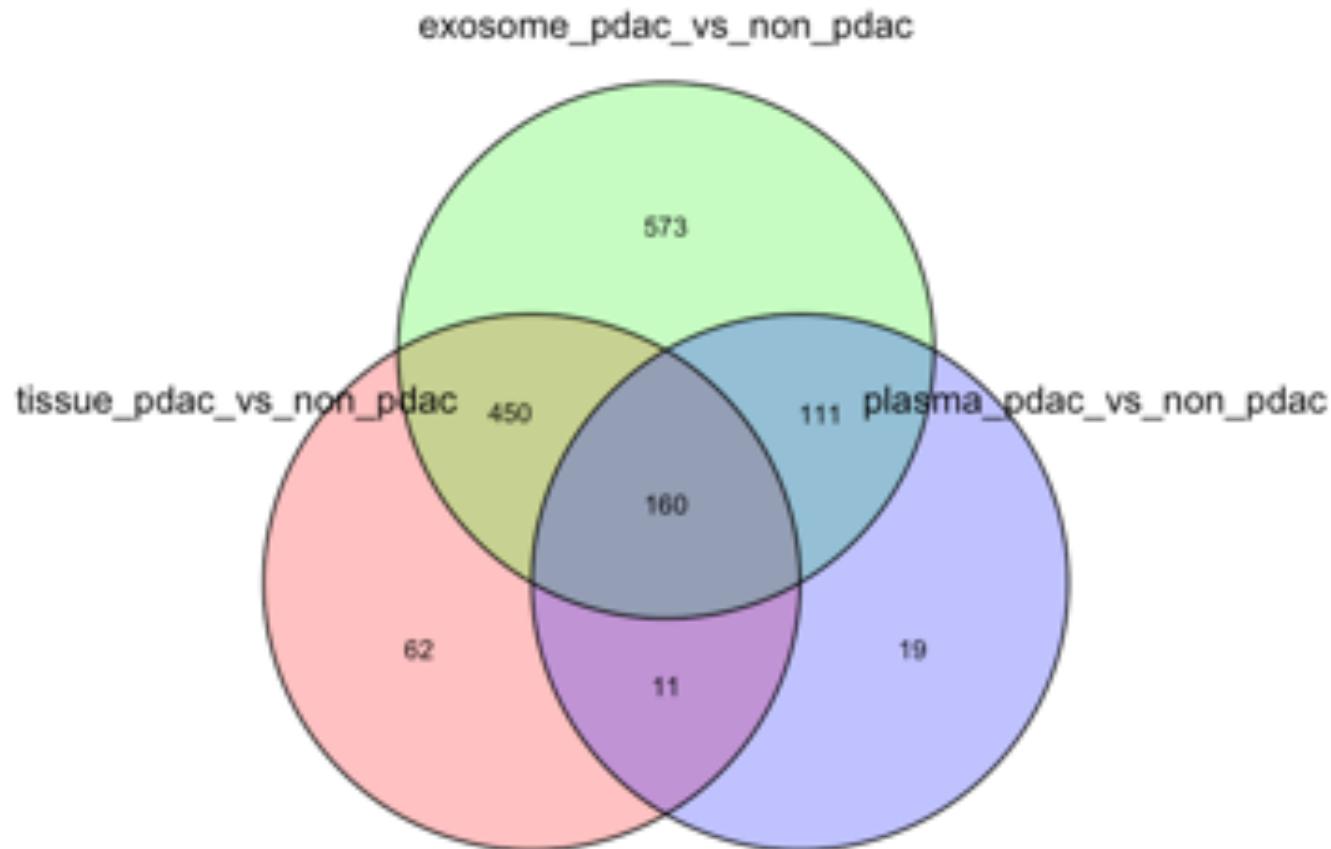
# PDAC vs. IPMN + Healthy/Normal



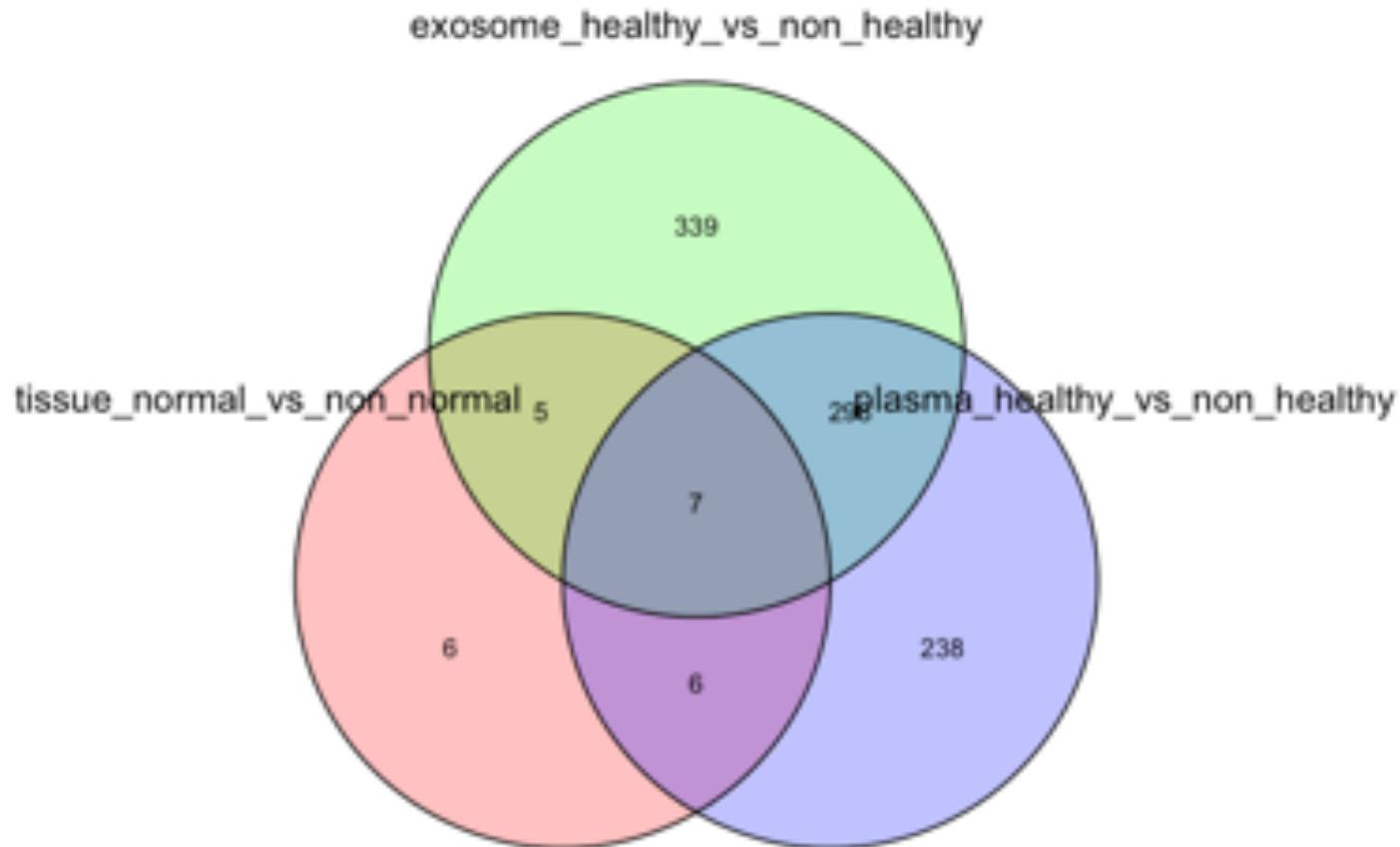
# PDAC + IPMN vs. Healthy/Normal



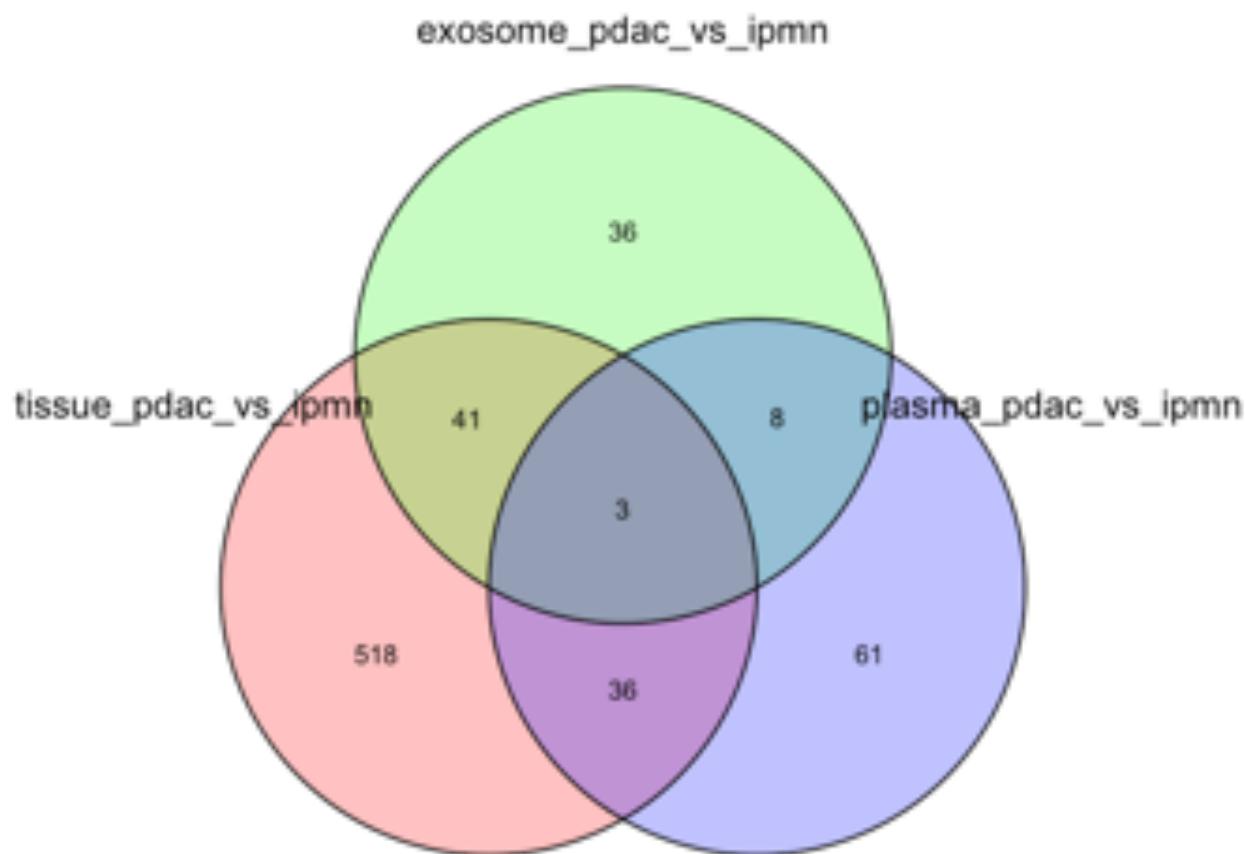
# Pathways: PDAC vs. IPMN + Healthy/Normal



# Pathways: PDAC + IPMN vs. Healthy/Normal



# Pathways: PDAC vs. IPMN



More detailed results and descriptions can be found at

<https://ccsb.pvamu.edu/PANC/2020-08-18/>



user-id: panc  
password: panc