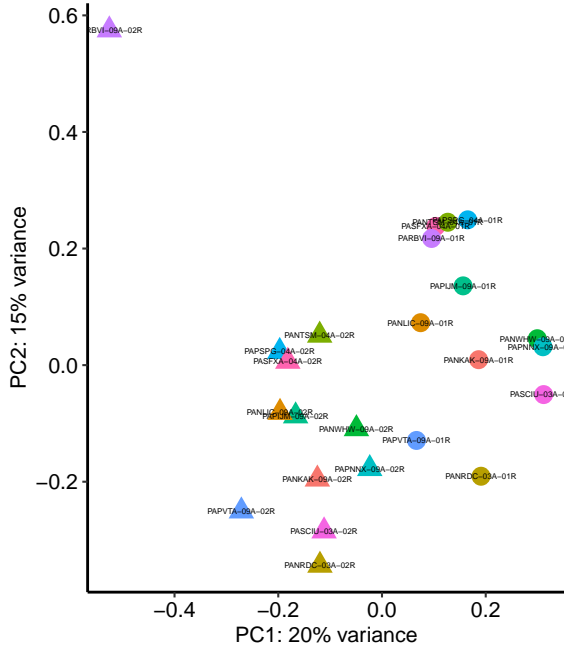
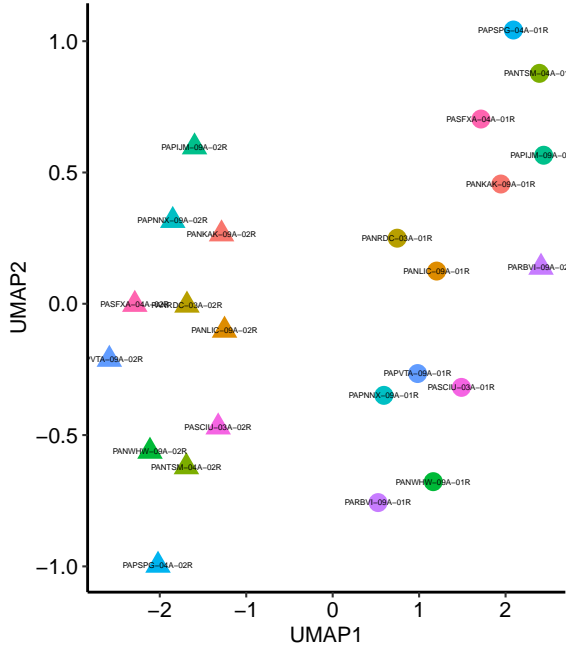


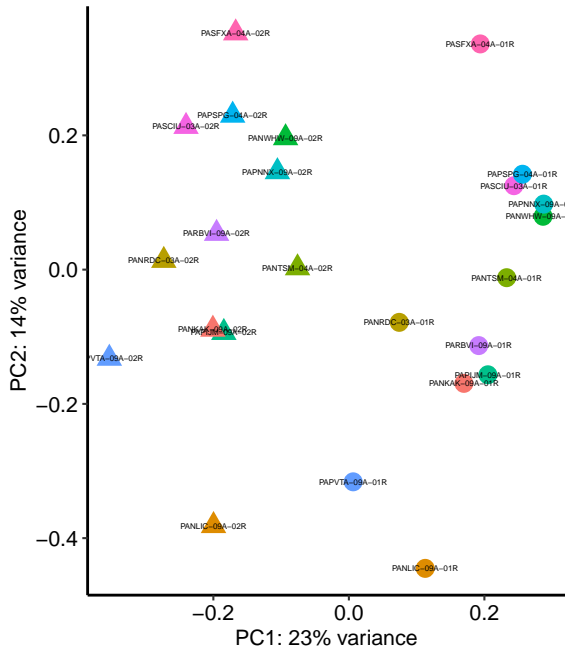
PCA: RUVg output ( $k = 1$ )

UMAP: RUVg output ( $k = 1$ )

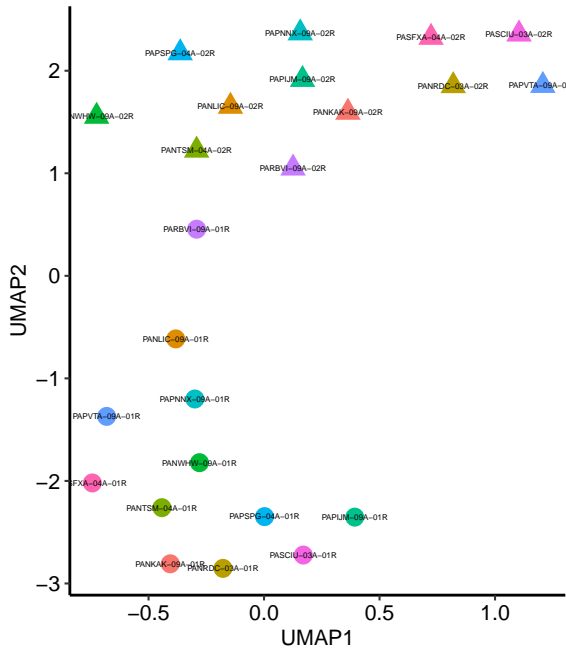


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### PCA: RUVg output ( $k = 2$ )

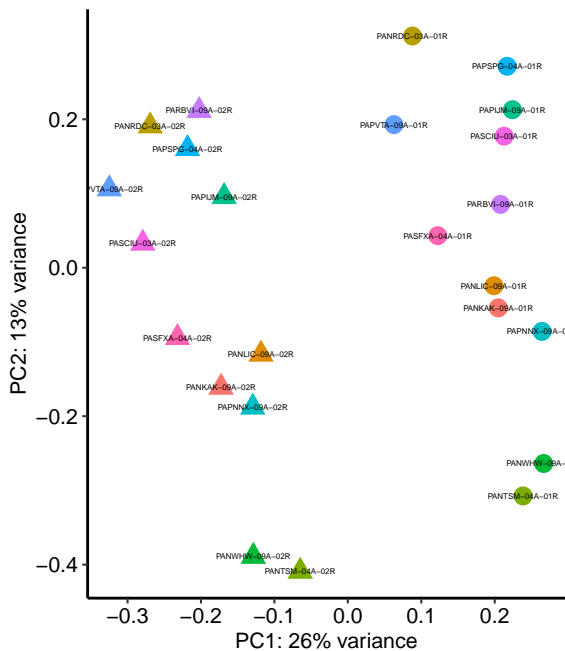


UMAP: RUVg output ( $k = 2$ )

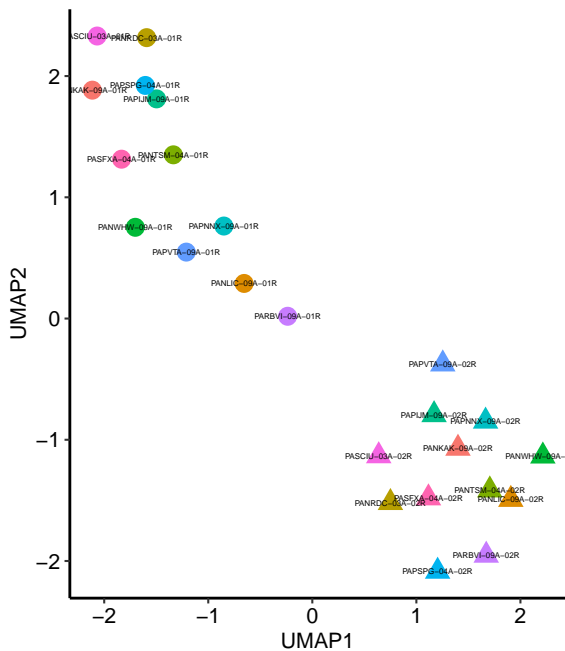


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PCA: RUVg output ( $k = 3$ )

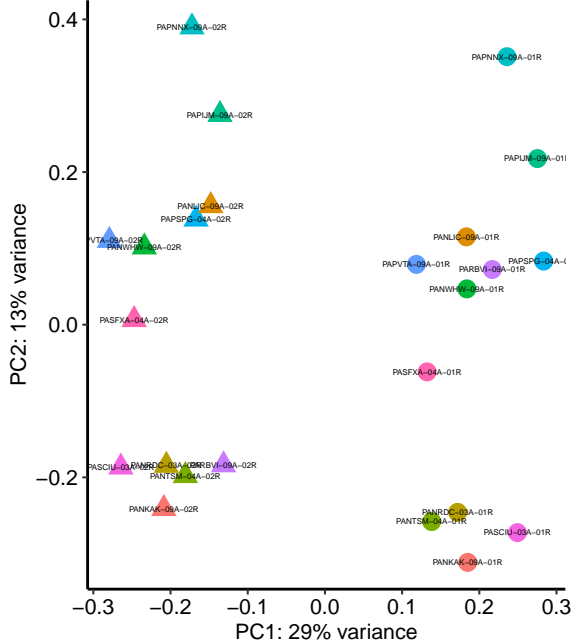


UMAP: RUVg output ( $k = 3$ )

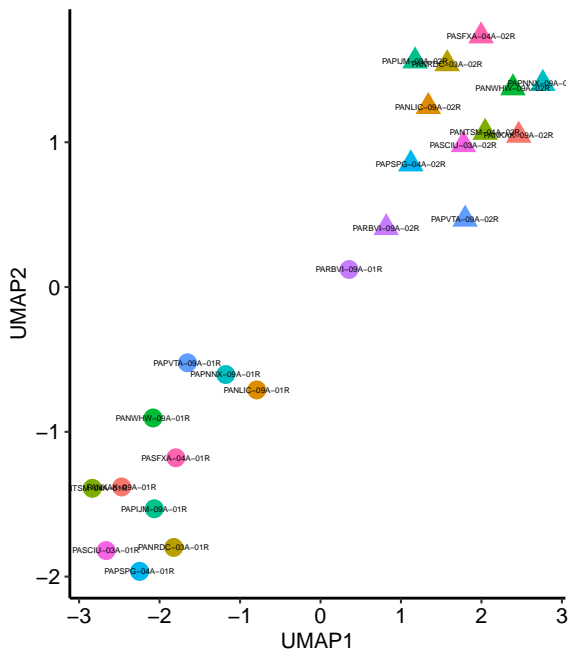


rna\_library   ●   poly-A stranded   ▲   stranded

PCA: RUVg output ( $k = 4$ )

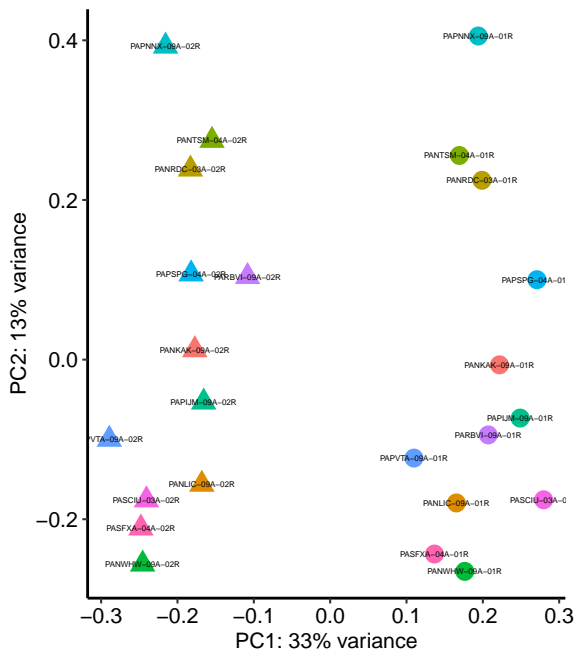


## UMAP: RUVg output (k = 4)

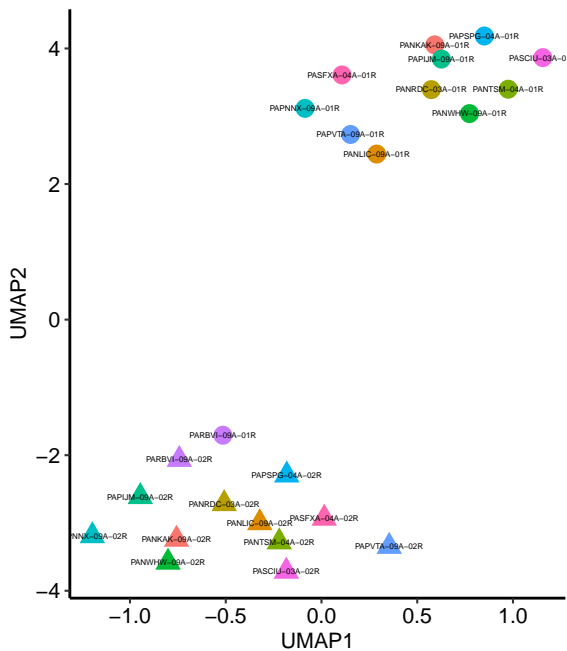


rna\_library   ●   poly-A stranded   ▲   stranded

PCA: RUVg output ( $k = 5$ )



UMAP: RUVg output ( $k = 5$ )



rna\_library   ●   poly-A stranded   ▲   stranded