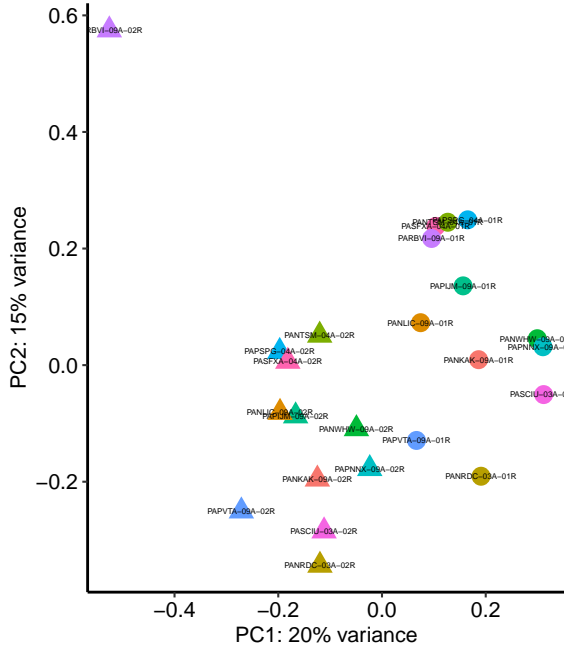
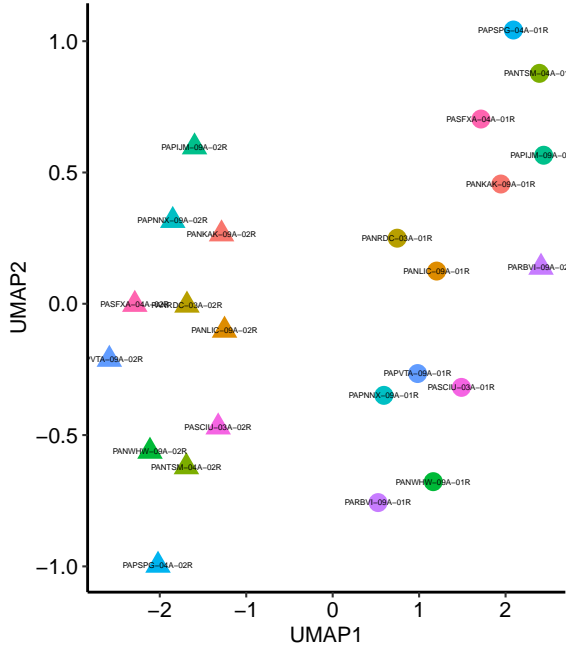


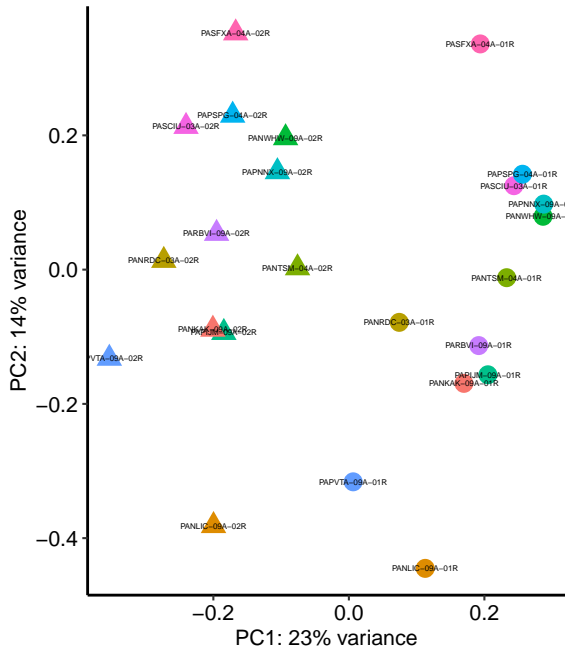
PCA: RUVg output ( $k = 1$ )

UMAP: RUVg output ( $k = 1$ )

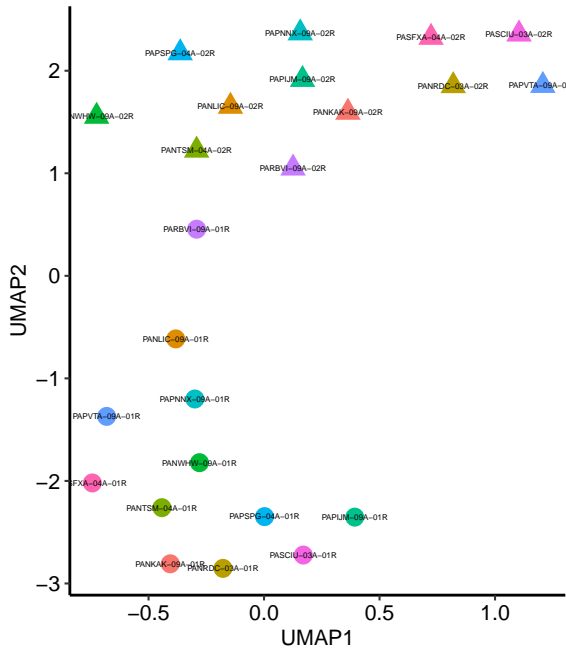


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### PCA: RUVg output ( $k = 2$ )

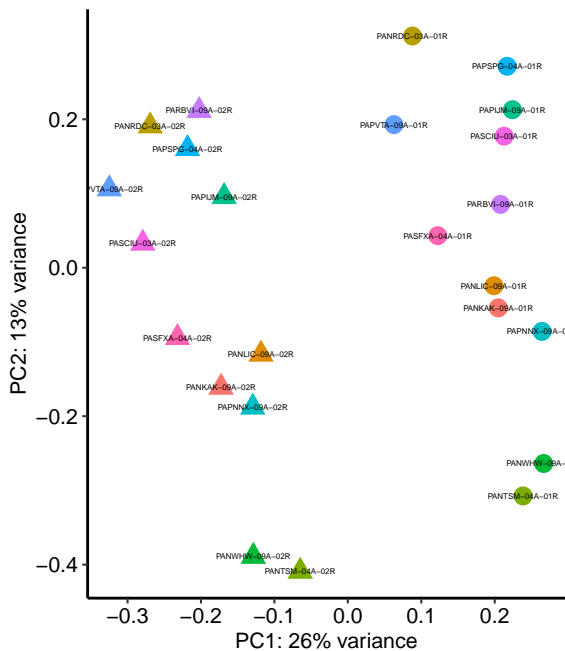


UMAP: RUVg output ( $k = 2$ )

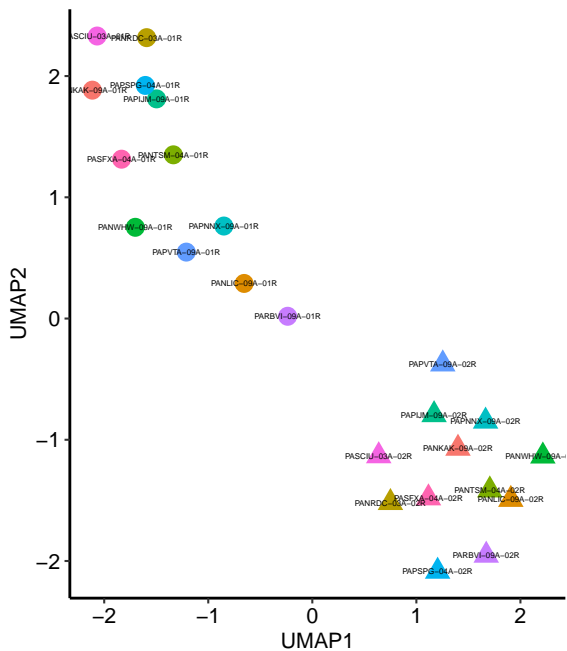


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PCA: RUVg output (k = 3)

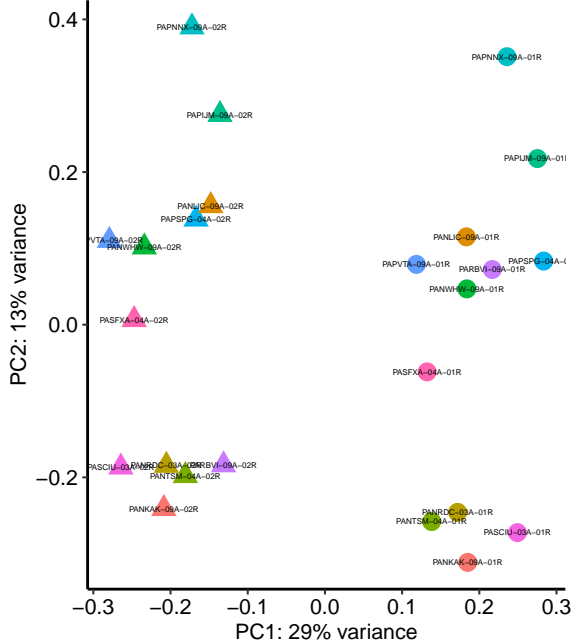


UMAP: RUVg output (k = 3)

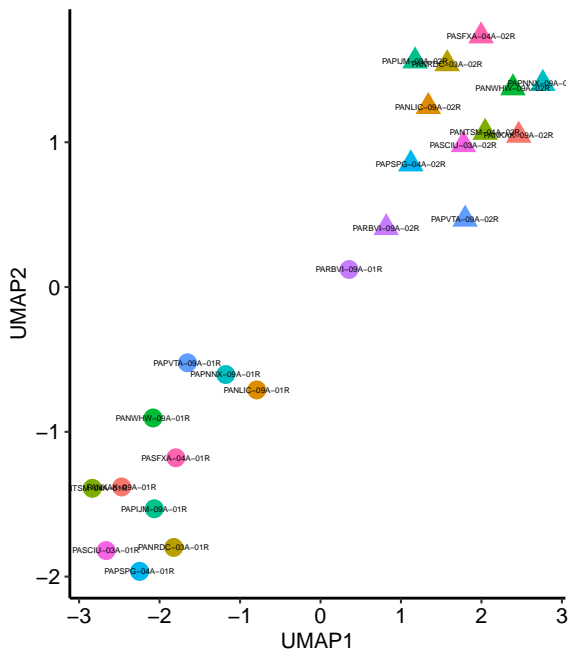


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PCA: RUVg output ( $k = 4$ )

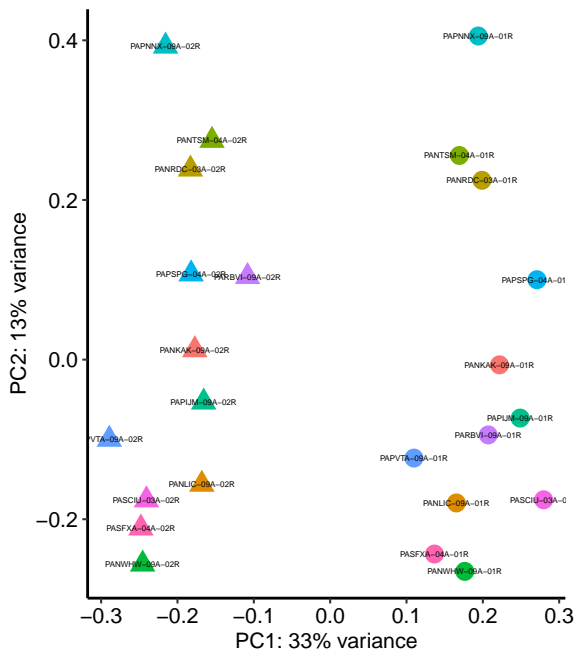


UMAP: RUVg output ( $k = 4$ )

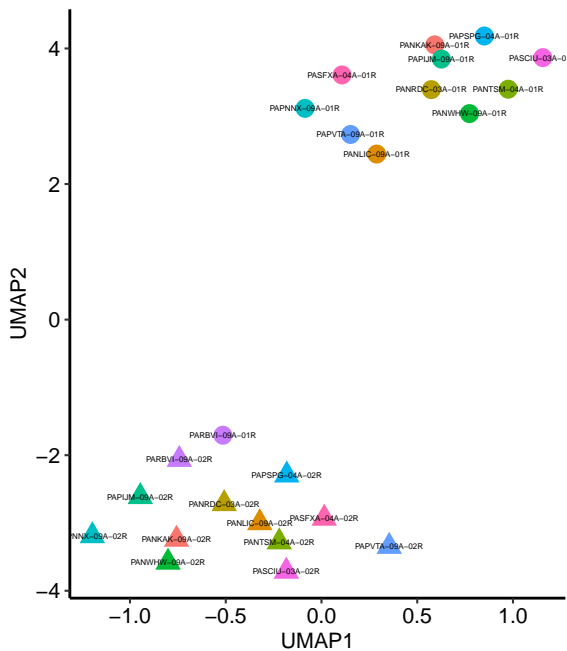


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PCA: RUVg output (k = 5)



UMAP: RUVg output (k = 5)



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