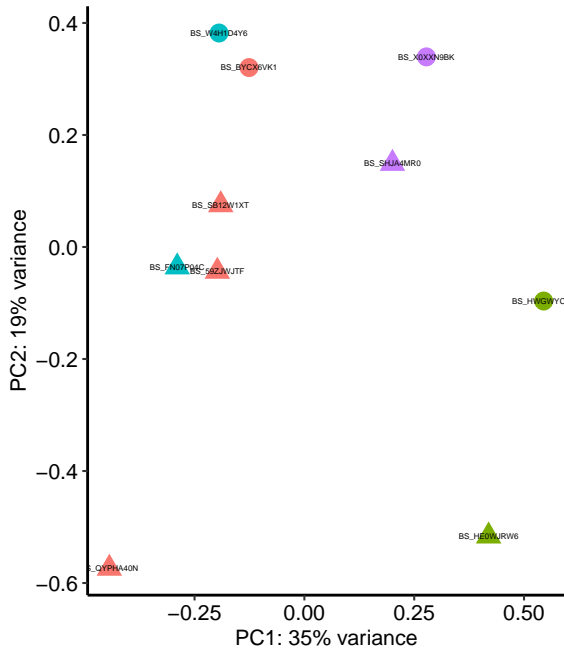
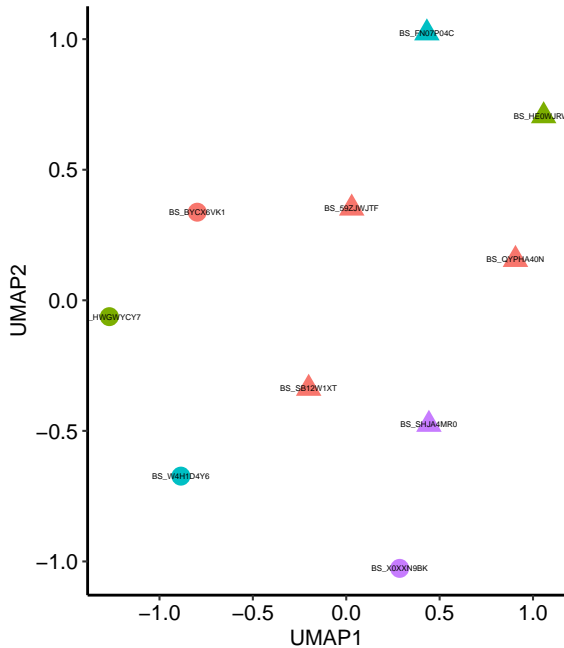


PCA: RUVg output (k = 1)

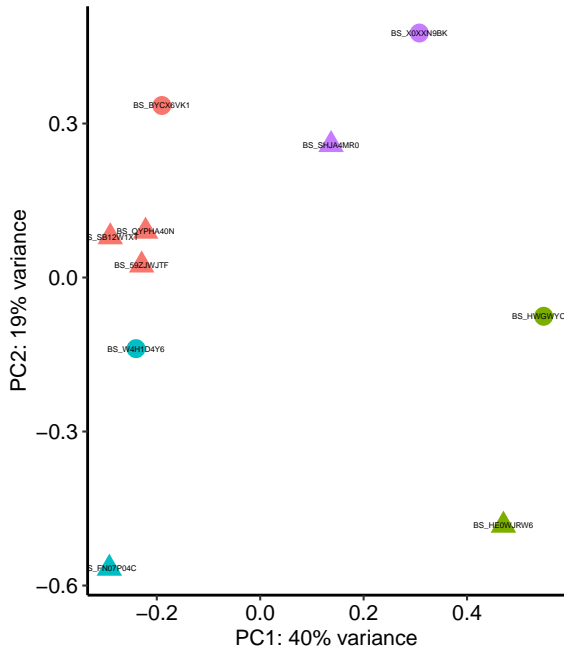


UMAP: RUVg output (k = 1)

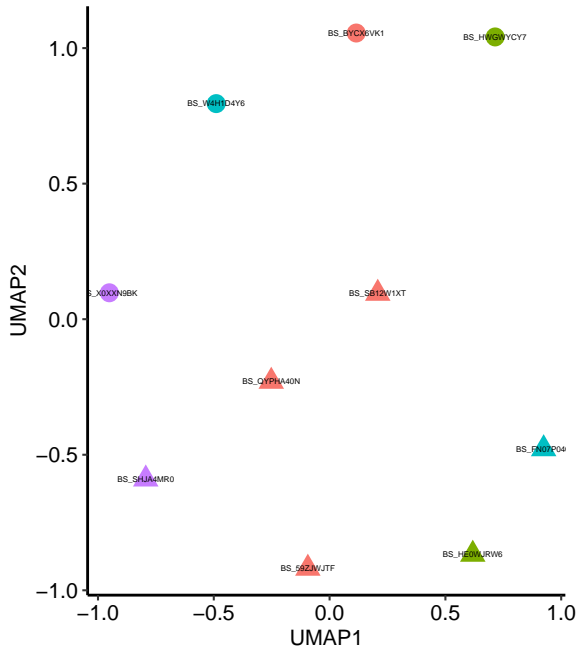


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## PCA: RUVg output ( $k = 2$ )

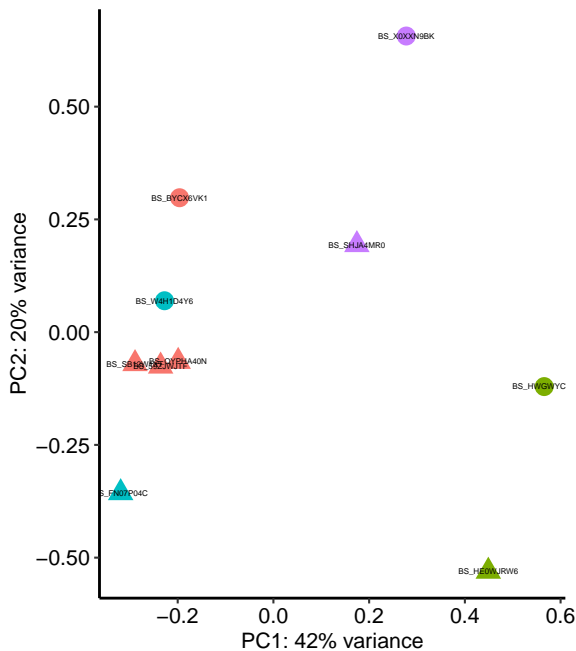


## UMAP: RUVg output ( $k = 2$ )

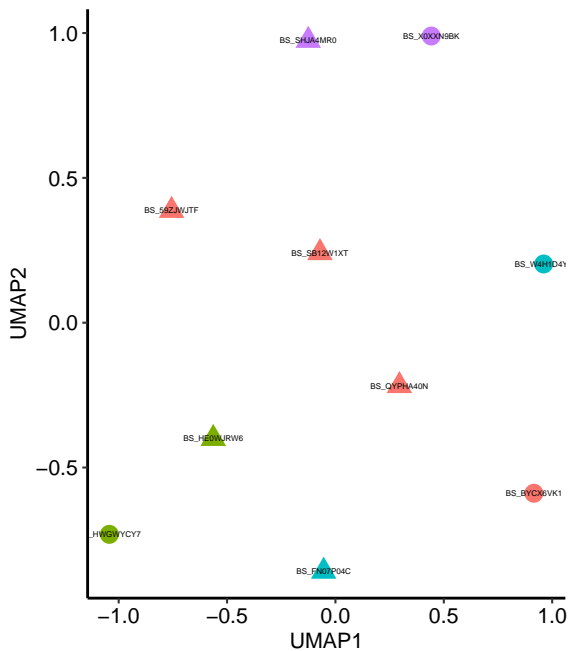


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PCA: RUVg output (k = 3)

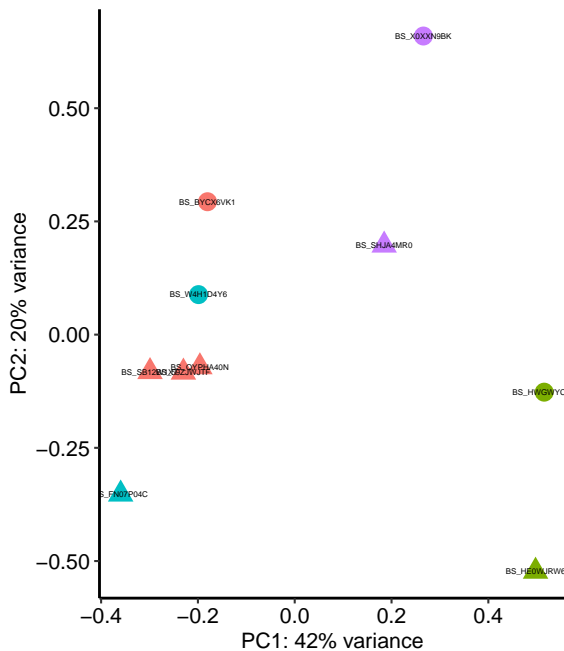


UMAP: RUVg output (k = 3)

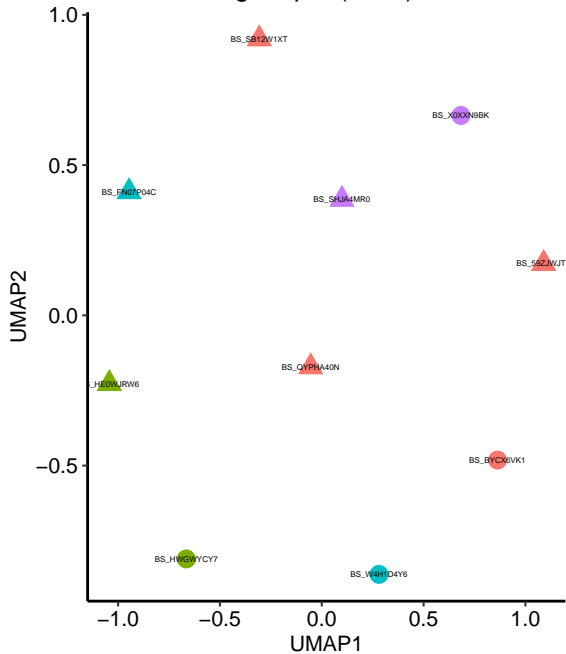


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PCA: RUVg output (k = 4)

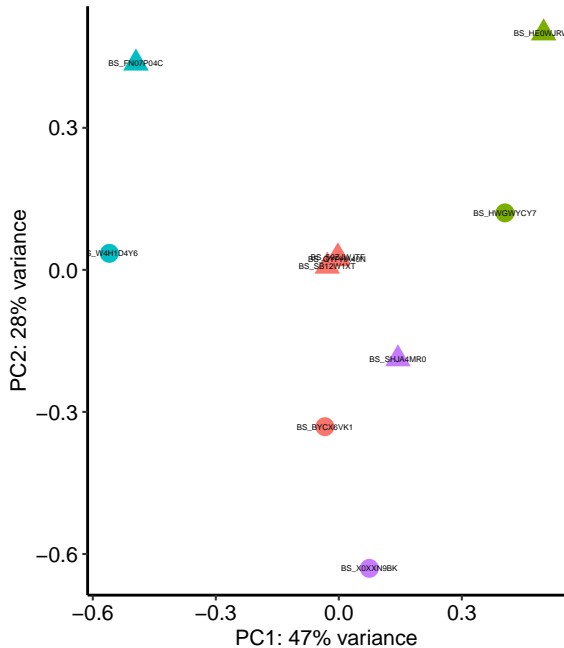


UMAP: RUVg output (k = 4)

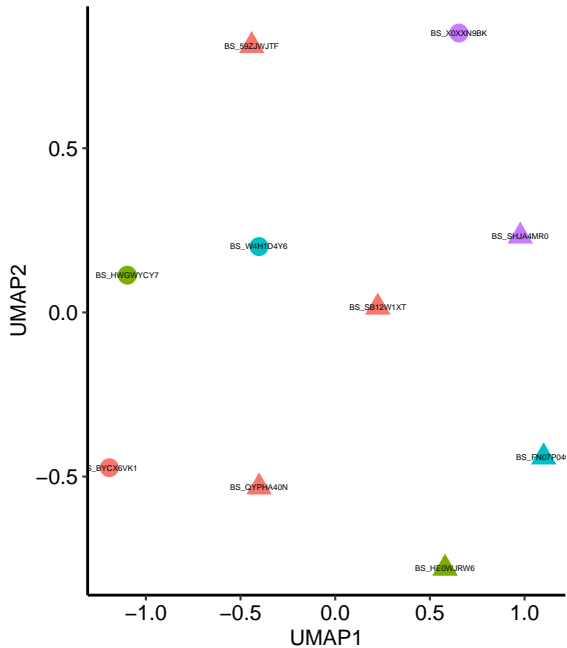


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PCA: RUVg output (k = 5)



UMAP: RUVg output (k = 5)



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