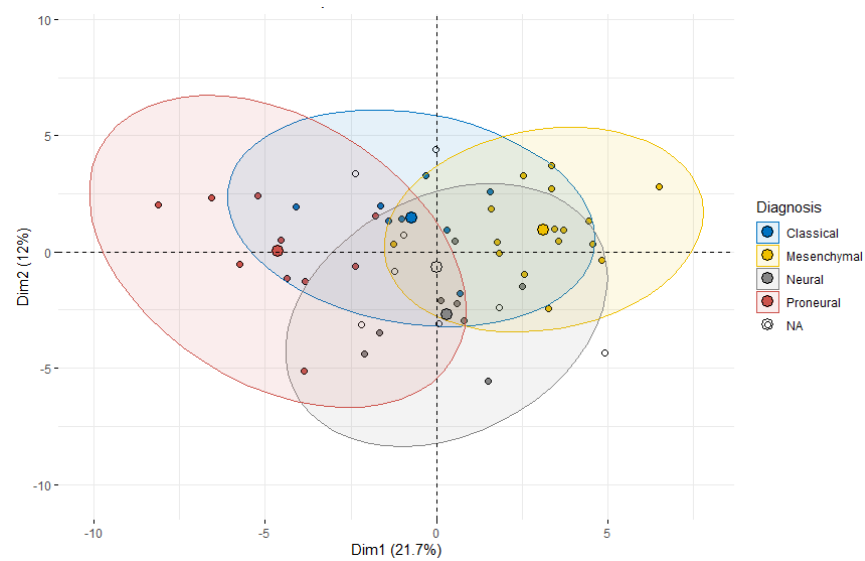
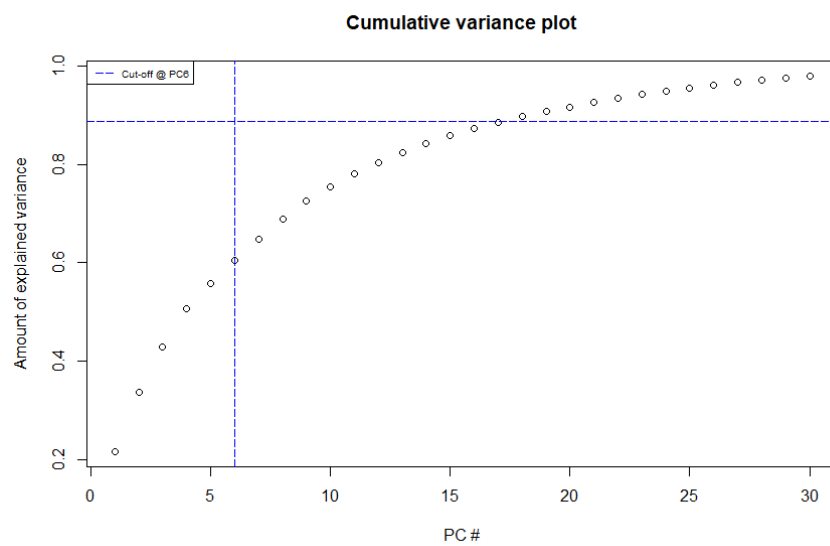
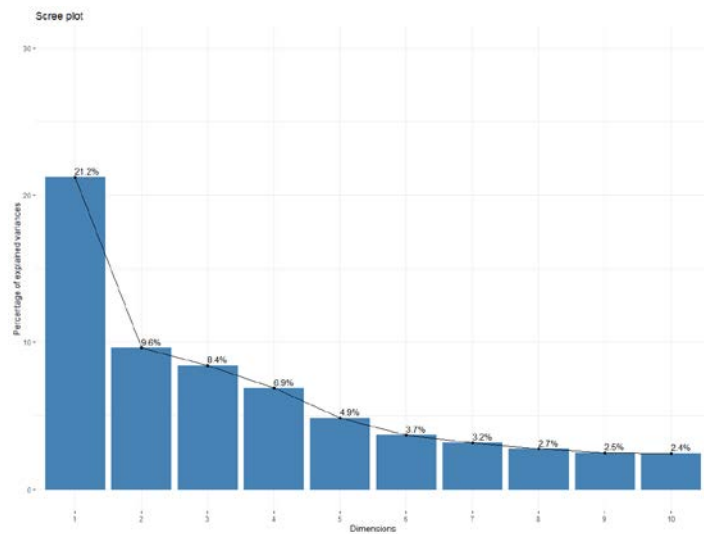
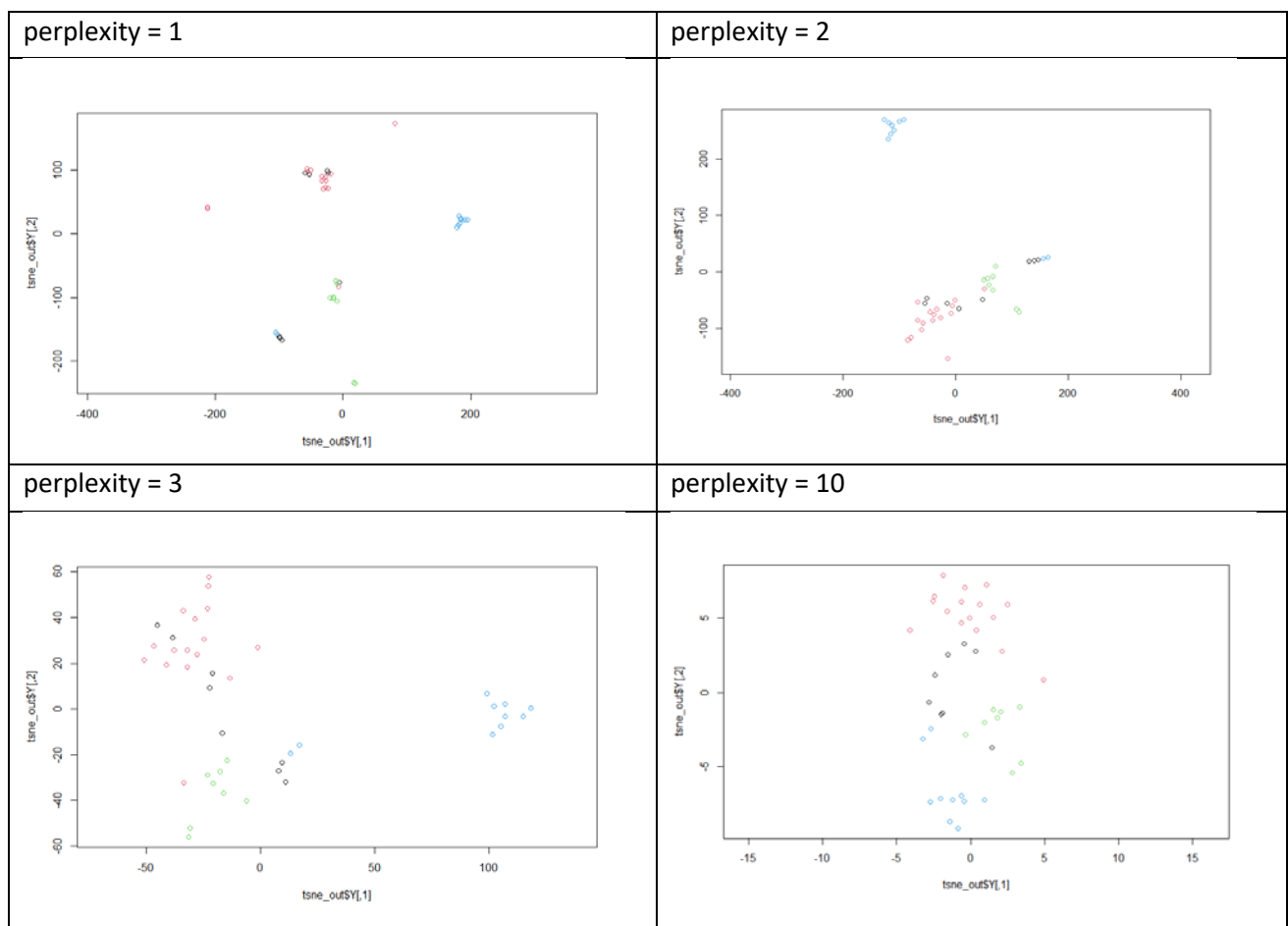


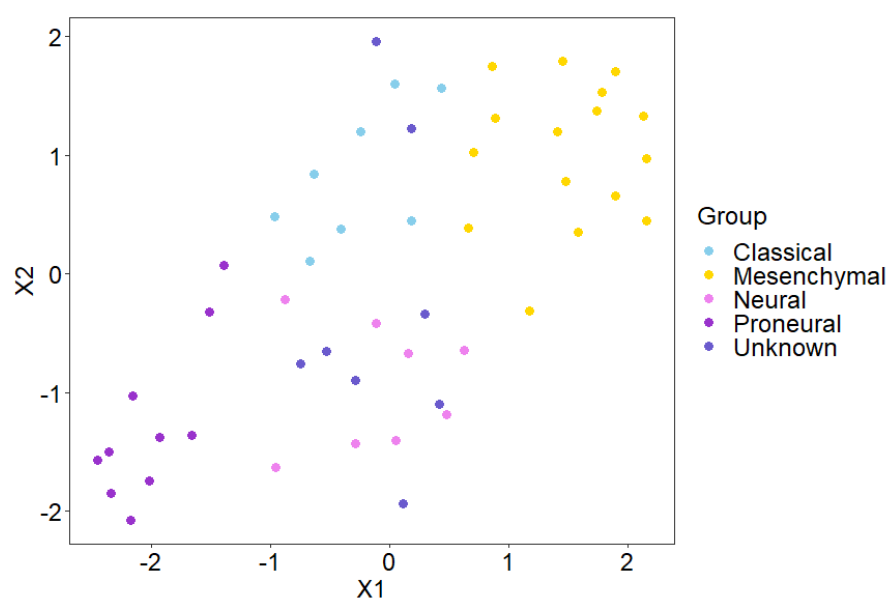
Q1. PCA - Scree Plot



Q1: TSNE

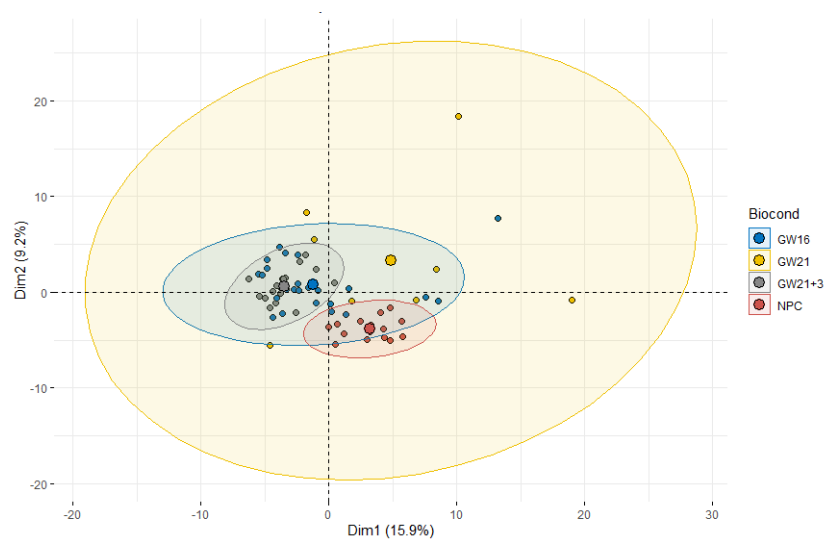
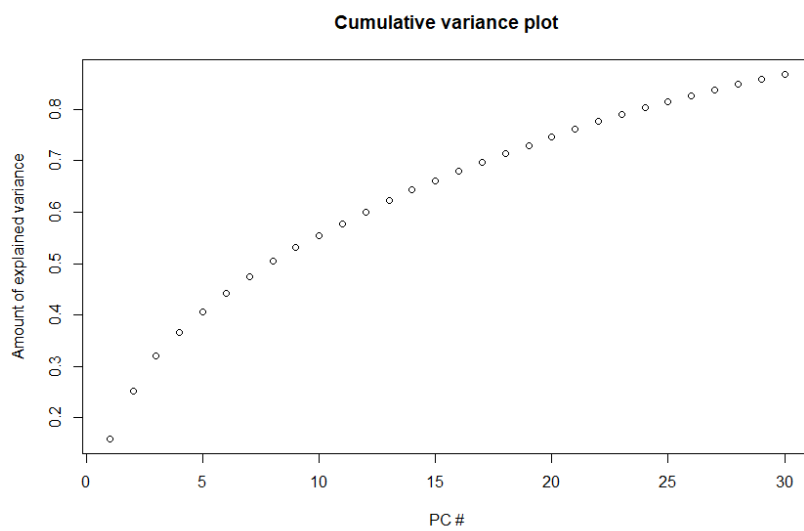
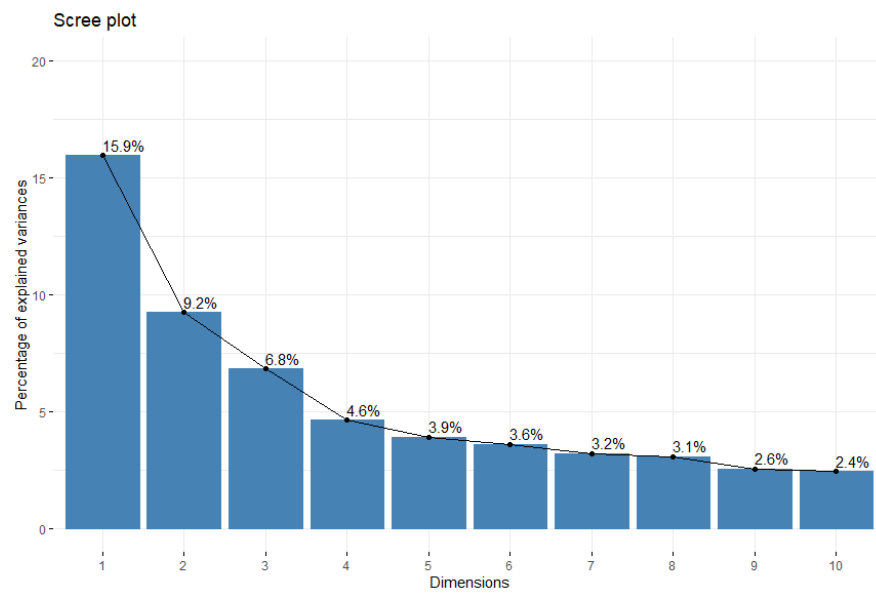


Q1 - UMAP

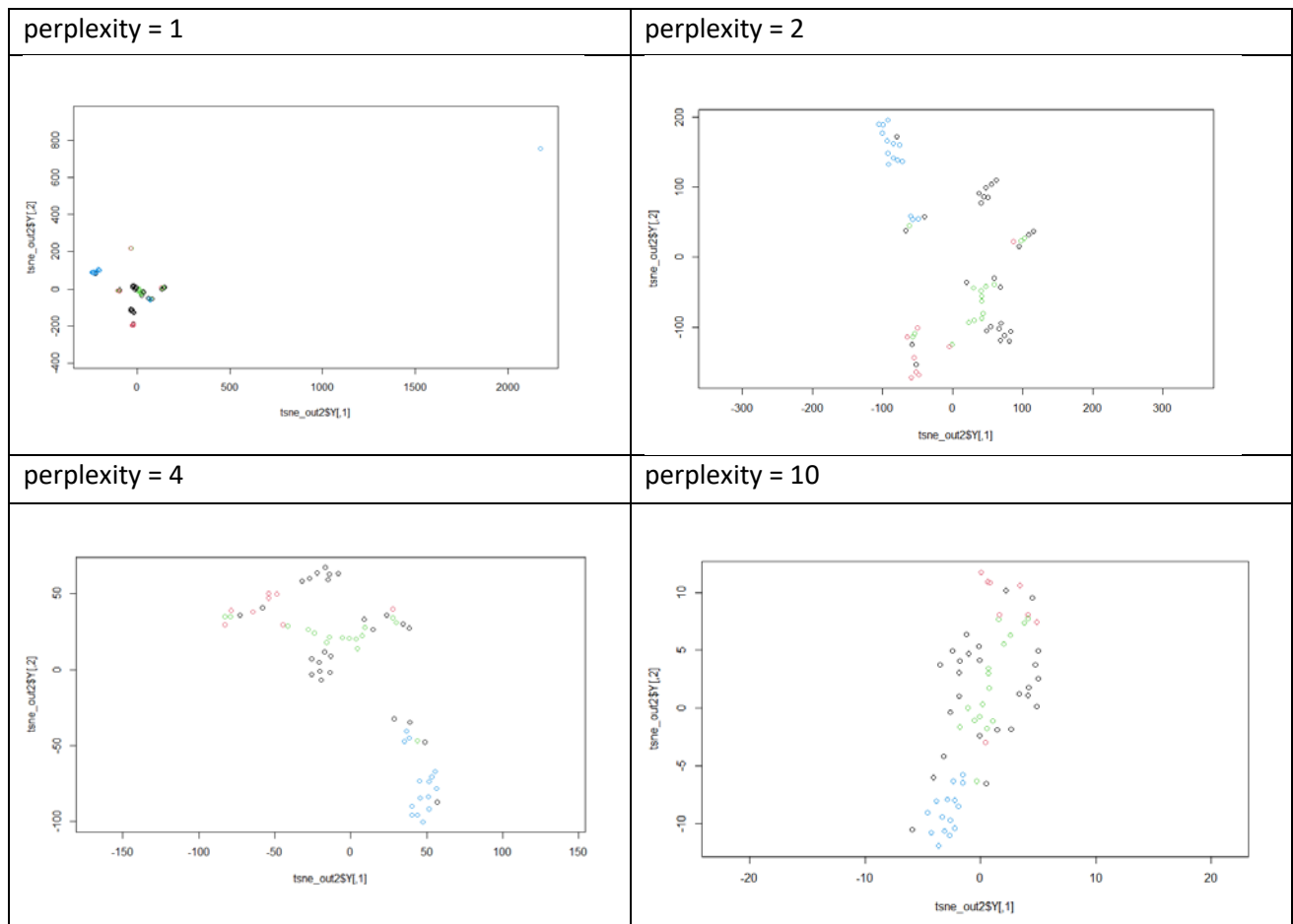


Q1: The TSNE yield the best result for data clustering when perplexity = 3.

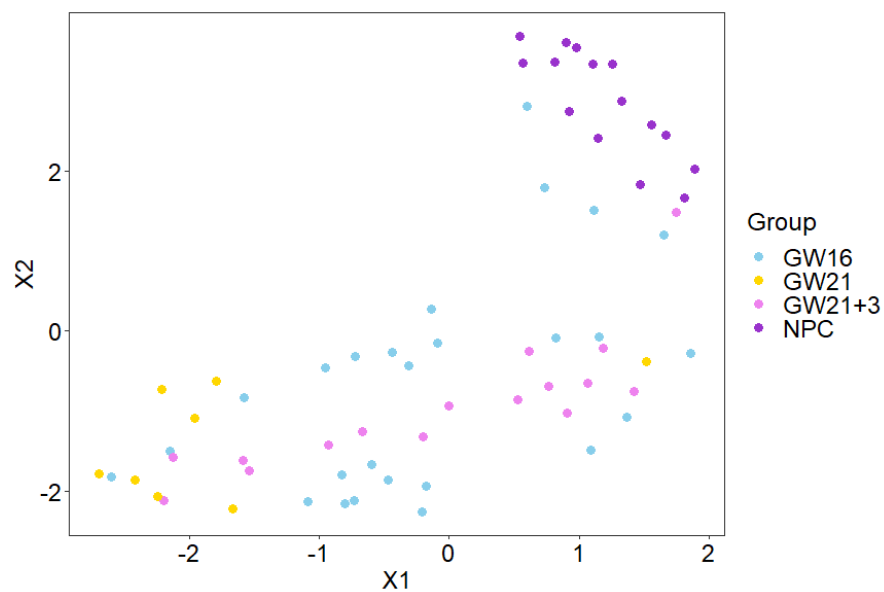
Q2. PCA - Scree Plot



Q2: TSNE



Q2: UMAP



Q2: The TSNE and UMAP yield the similar result for data clustering.