**Short Read Workshop Day 8 Homework Assignment**

Adjust the integration, UMAP, and clustering parameters to observe effects on projection and cluster identification. Use the UMAP tutorial website provided in the worksheet for help in understanding the effects of these different parameters.

1. Increase and decrease the k.weight parameter in the FindIntegrationAnchors() function. Then go through the process of scaling this integrated object (ScaleData()), and conducting UMAP reduction, followed by plotting using DimPlot(integrated.object, group.by = ‘cell.id’). You can see how the k.weight parameter will change the level at which these two datasets are integrated
2. Adjust the UMAP and FindClusters() parameters (min.dist, n.neighbors, and resolution), to see how these parameters affect the UMAP projection and the ensuing cluster identification.