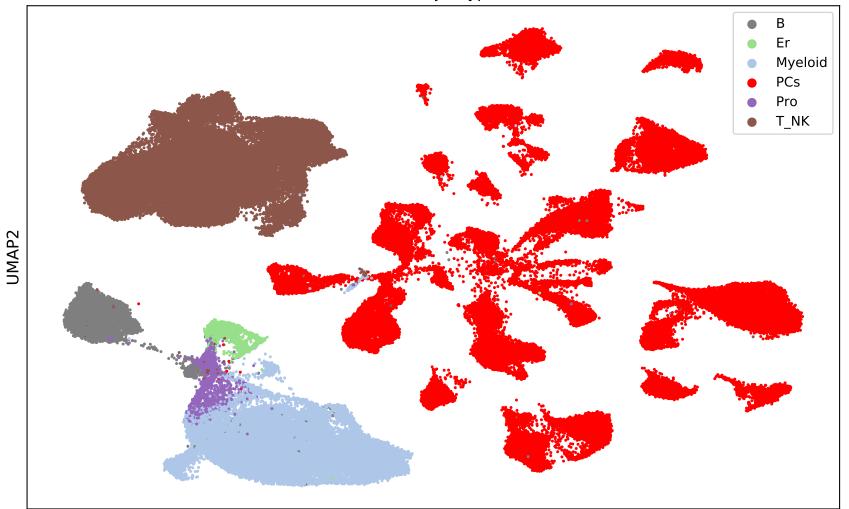
tirier: major types



UMAP1