#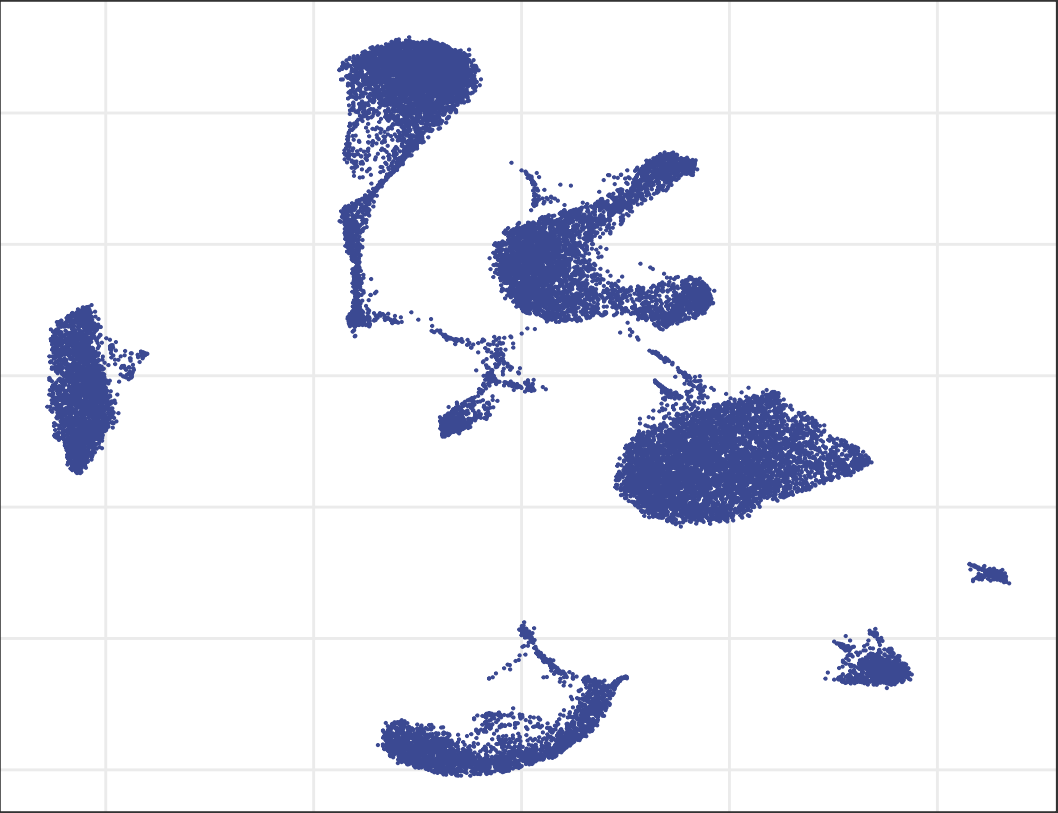 processing