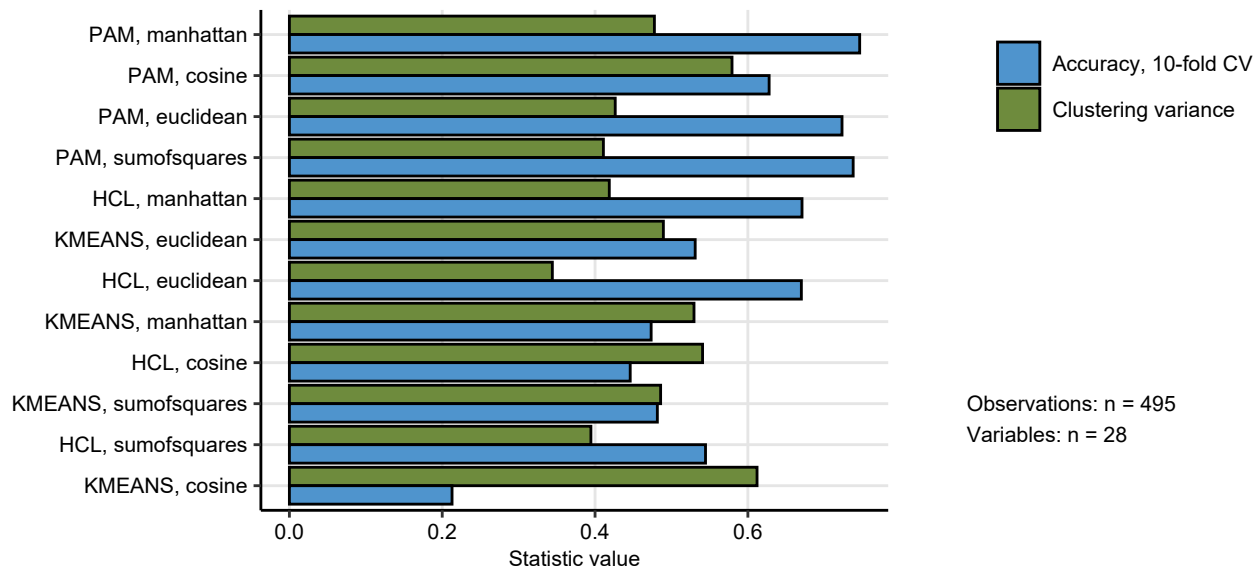
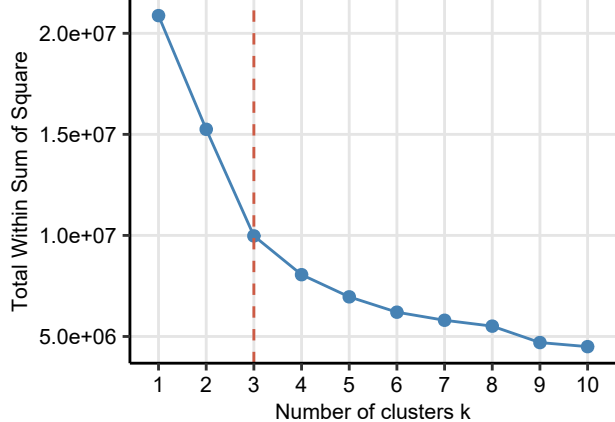
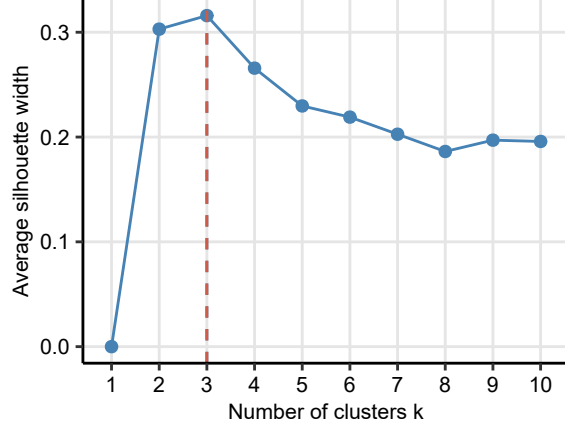
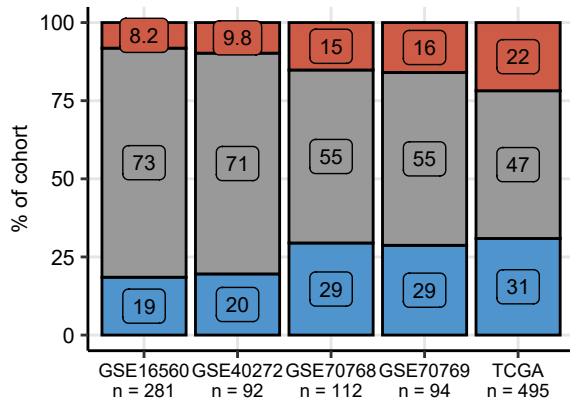


**A****Clustering algorithm performance**

TCGA training cohort

**B****Optimal cluster number****Optimal cluster number****C****Distribution of the Collagen Clusters****Clustering variance**