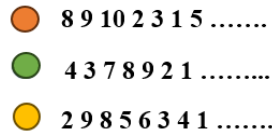


INPUT

Gene Location CSV



Barcode Matrix



Ductal Tissue Image

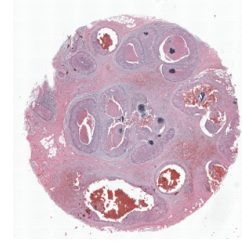
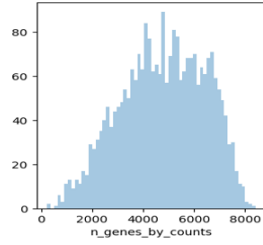
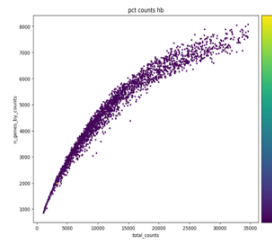


Image Preprocessing

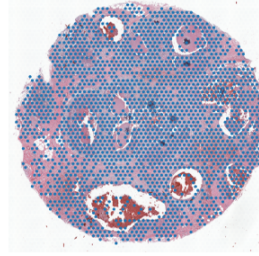
Hemoglobin Genes Identification



Total Gene Counts

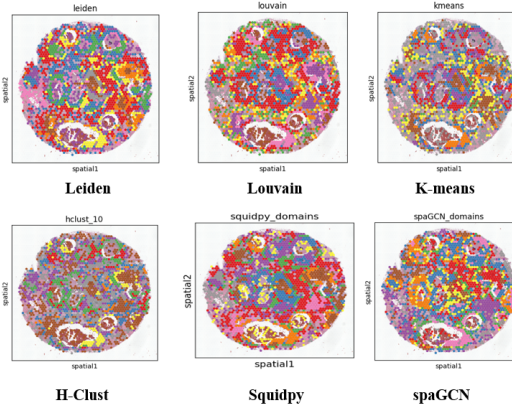


PCT_counts_HB

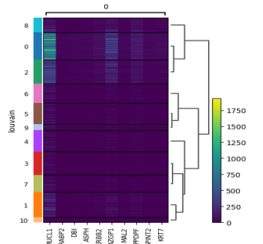


Genes Filtering

Spatial Domain Identification



Marker Genes Identification



Ductal Cell Identification

