

# SEURATEXT

An R Package extension for single cell sequencing analysis based on Seurat V3.0 Pipeline Objects



An output folder from the  
10X Genomics single  
sequencing pipeline



Preprocessing Using  
Seurat Pipeline



Dimensionality  
Reduction and Cluster  
Identification UMAP



Cluster-Based Cell Type  
Assignment based on  
reference marker list



In Silico Cell Cytometry  
based on 2 selected cell  
type markers. Quadrant-  
Based Cell Reclustering



Wrapper functions for  
convenient conserved  
markers and differentially  
expressed genes Analysis



Utility Functions for cross-  
platform analysis between  
CellPhoneDB and Seurat with  
customized visualization



Customized tutorial on immune  
cell trajectory analysis by applying  
Seurat Object into Monocle 2 and  
Monocle 3 pipeline



Reclustered sub-population  
for downstream analysis



Interactive ShinyApp Session  
for manual inspection of  
various features



CytoScape for Visualization  
of interaction network  
between cell types