1. real\_clustering\_analysis.py
2. add\_ACC.py
3. table\_presentation.py
4. Sankey.py
5. sankey\_presentation.py

**/home/NYCU-BiOmicsLab/public\_html/312351011/cluster/real\_clustering\_analysis.py**

* Exterior parameters: dataset, paramSet
* Input file: **cluster/paramSet\_table.txt**  
  scRNAseq\_datasets/{dataset}/{dataset}\_scRNA\_category\_table.txt  
  scRNAseq\_datasets/dataset\_stat.txt  
  scRNAseq\_datasets/{dataset}/{dataset}\_{fmt}\_scRNA\_rmZero\_log2.txt (if method is GEM)  
  {method.upper()}/{dataset}/ndm/{method}\_b0.1\_p0.01\_ndm.txt
* Output file: cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_scatter\_true\_paramSet{paramSet}.png  
  cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_scatter\_pred\_paramSet{paramSet}.png  
  cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_coord\_label\_df\_paramSet{paramSet}.txt  
  cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_metrics\_df\_paramSet{paramSet}.txt

**/home/NYCU-BiOmicsLab/public\_html/312351011/cluster/add\_ACC.py**

* Exterior parameters: None
* Input file: cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_coord\_label\_df\_paramSet{paramSet}.txt  
  cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_metrics\_df\_paramSet{paramSet}.txt
* Output file: cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_metrics\_df\_paramSet{paramSet}.txt (**updated metrics df**)

**/home/NYCU-BiOmicsLab/public\_html/312351011/cluster table\_presentation.py**

Exterior parameters: None

* Input file: cluster/real\_clustering\_analysis/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_metrics\_df\_paramSet{paramSet}.txt
* Output file: cluster/table\_presentation\_ACC.txt  
  cluster/table\_presentation\_ARI.txt  
  cluster/table\_presentation\_FMI.txt  
  cluster/table\_presentation\_NMI.txt

**home/NYCU-BiOmicsLab/public\_html/312351011/cluster /sankey\_presentation.py**

* Exterior parameters: None
* Input file: cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_coord\_label\_df\_paramSet{paramSet}.txt
* Output file: cluster/{method}/{dataset}/{paramSet}/{dataset}\_{method}\_paramSet{paramSet}\_sankeyPlot.png