E9.5 scRNA

jjy

2024-01-19

Load package

```
library(Seurat)

## Attaching SeuratObject

library(FateMapper)

## Loading required package: ggplot2

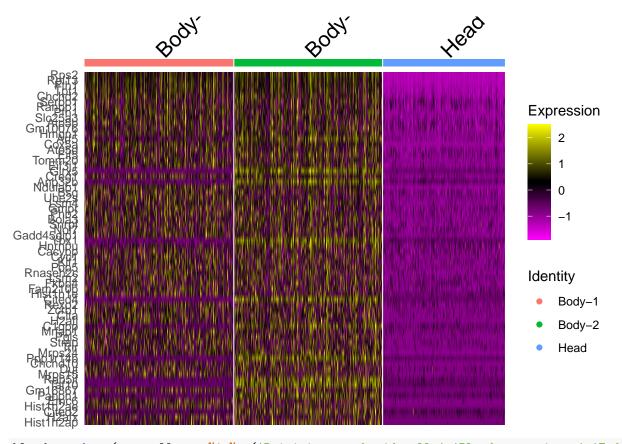
## Warning: package 'ggplot2' was built under R version 4.2.3

rna = readRDS('/data/jiangjunyao/20231205_scRNA/e95_3sample_scanvi_seurat.rds')
```

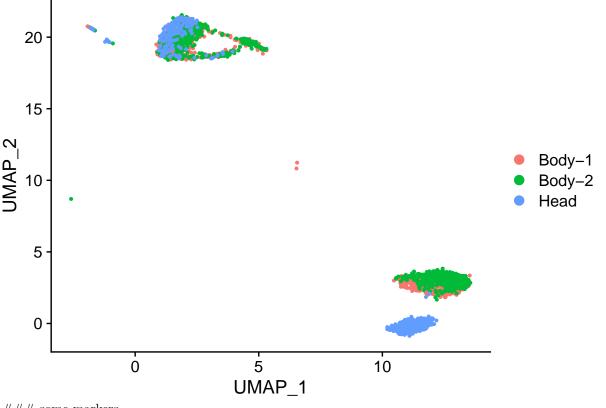
head & body ery deg

```
deg_use = deg[deg$avg_log2FC>1,]
DefaultAssay(ery) = 'RNA'
ery = ScaleData(ery)

## Centering and scaling data matrix
DoHeatmap(ery,deg_use$gene,group.by = 'orig.ident')
```

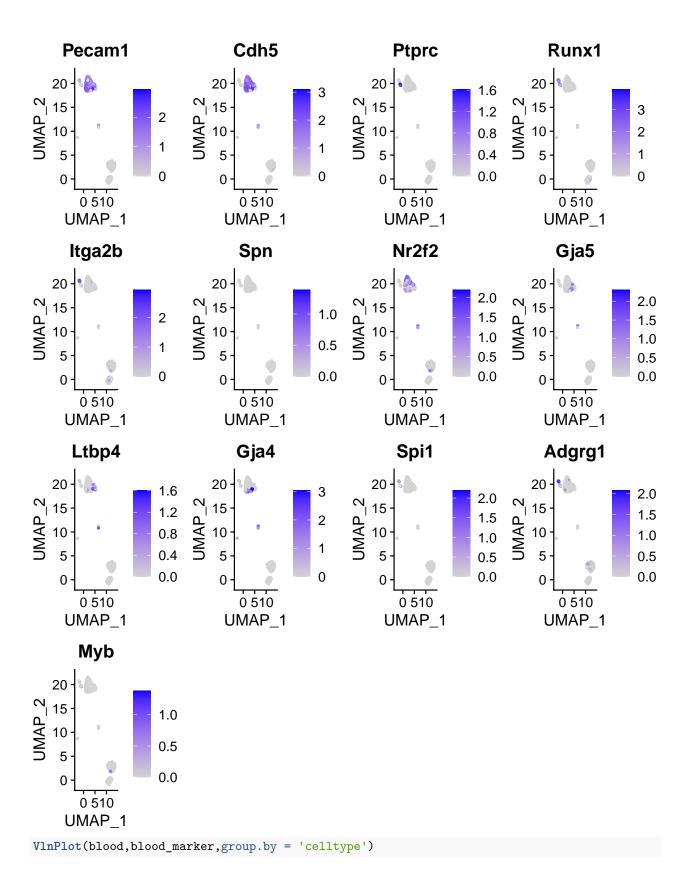


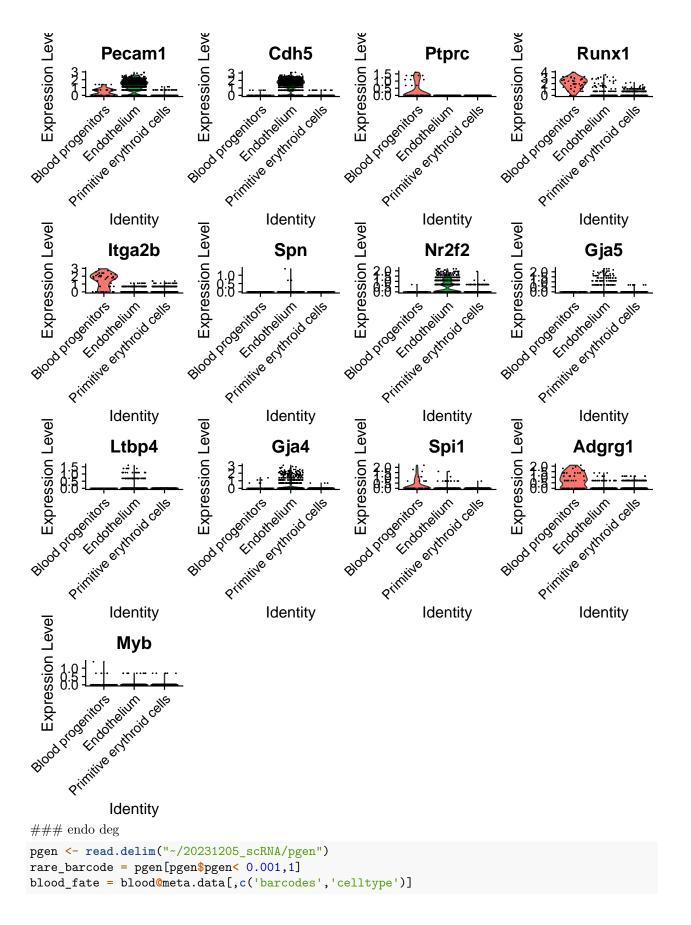
blood = subset(rna,celltype %in% c('Primitive erythroid cells','Blood progenitors','Endothelium'))
UMAPPlot(blood)

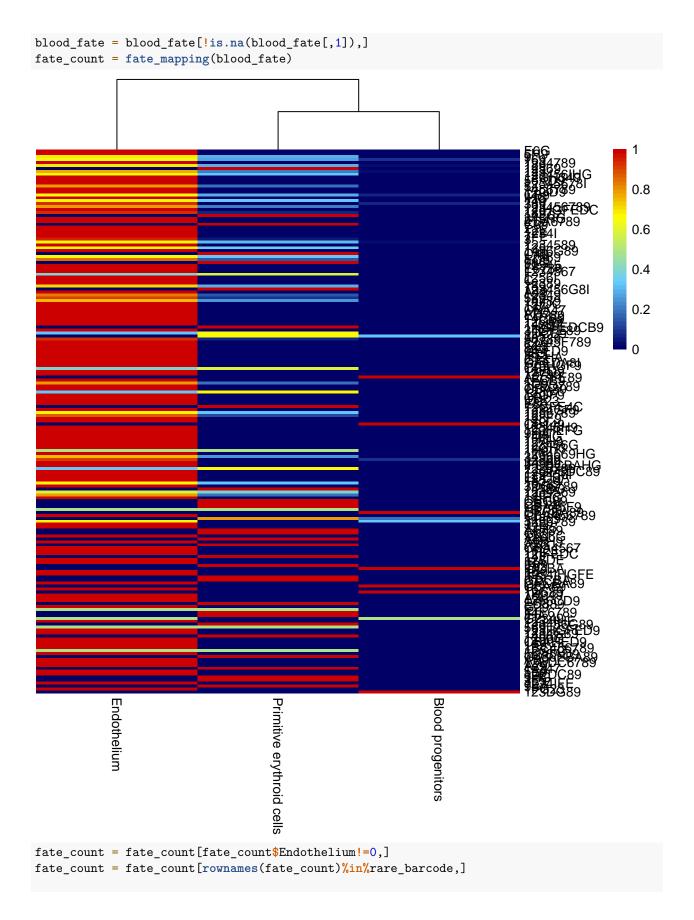


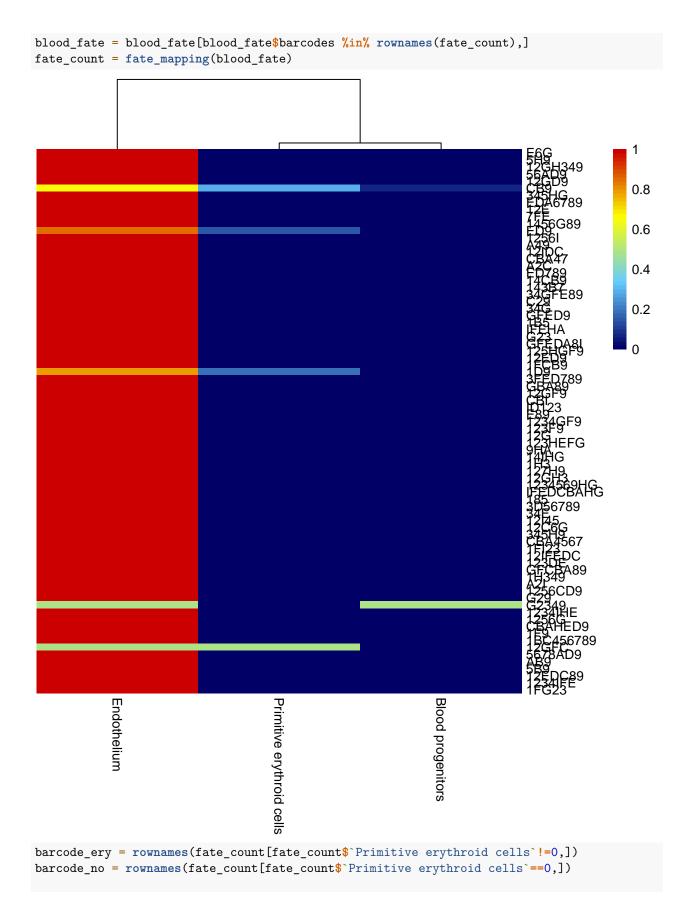
some markers

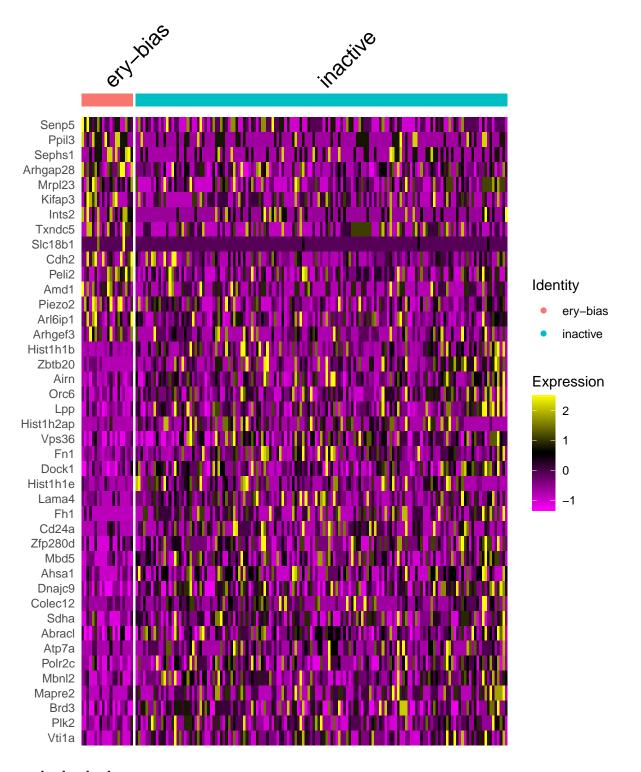
```
blood_marker = c('Pecam1', 'Cdh5', 'Ptprc', 'Runx1', 'Itga2b', 'Spn', 'Nr2f2',
                    'Gja5','Ltbp4','Gja4', 'Spi1','Adgrg1', 'Myb')
FeaturePlot(blood,blood_marker)
```











endo deg body

```
rna_blood_ery_head = subset(rna_blood_ery,orig.ident %in% c('Body-1','Body-2'))
fate_deg = FindAllMarkers(rna_blood_ery_head,test.use = 'negbinom')
fate_deg = fate_deg[fate_deg$avg_log2FC>0.5,]
DefaultAssay(rna_blood_ery_head) = 'RNA'
rna_blood_ery_head = ScaleData(rna_blood_ery_head)
```

