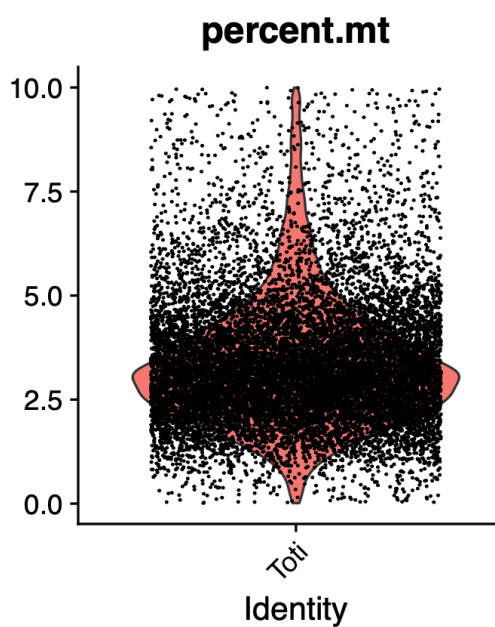
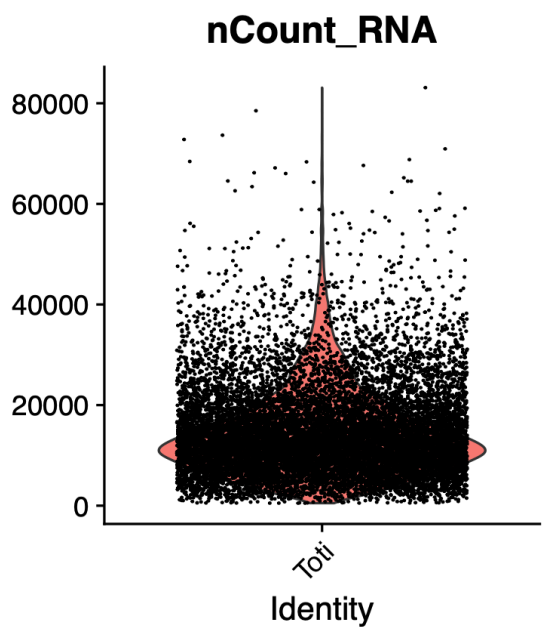
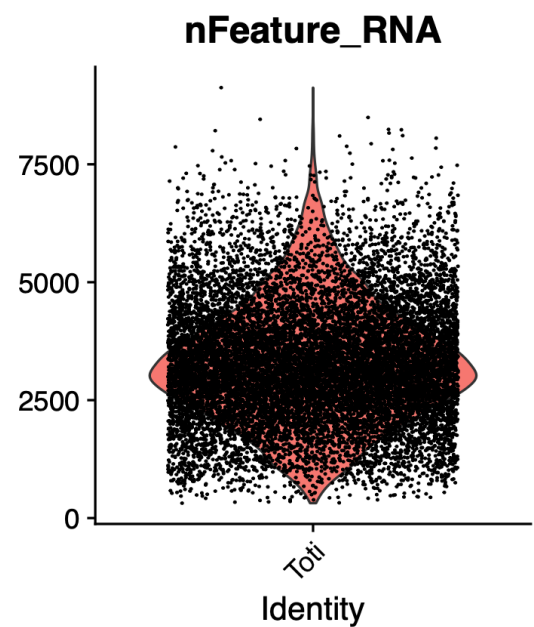
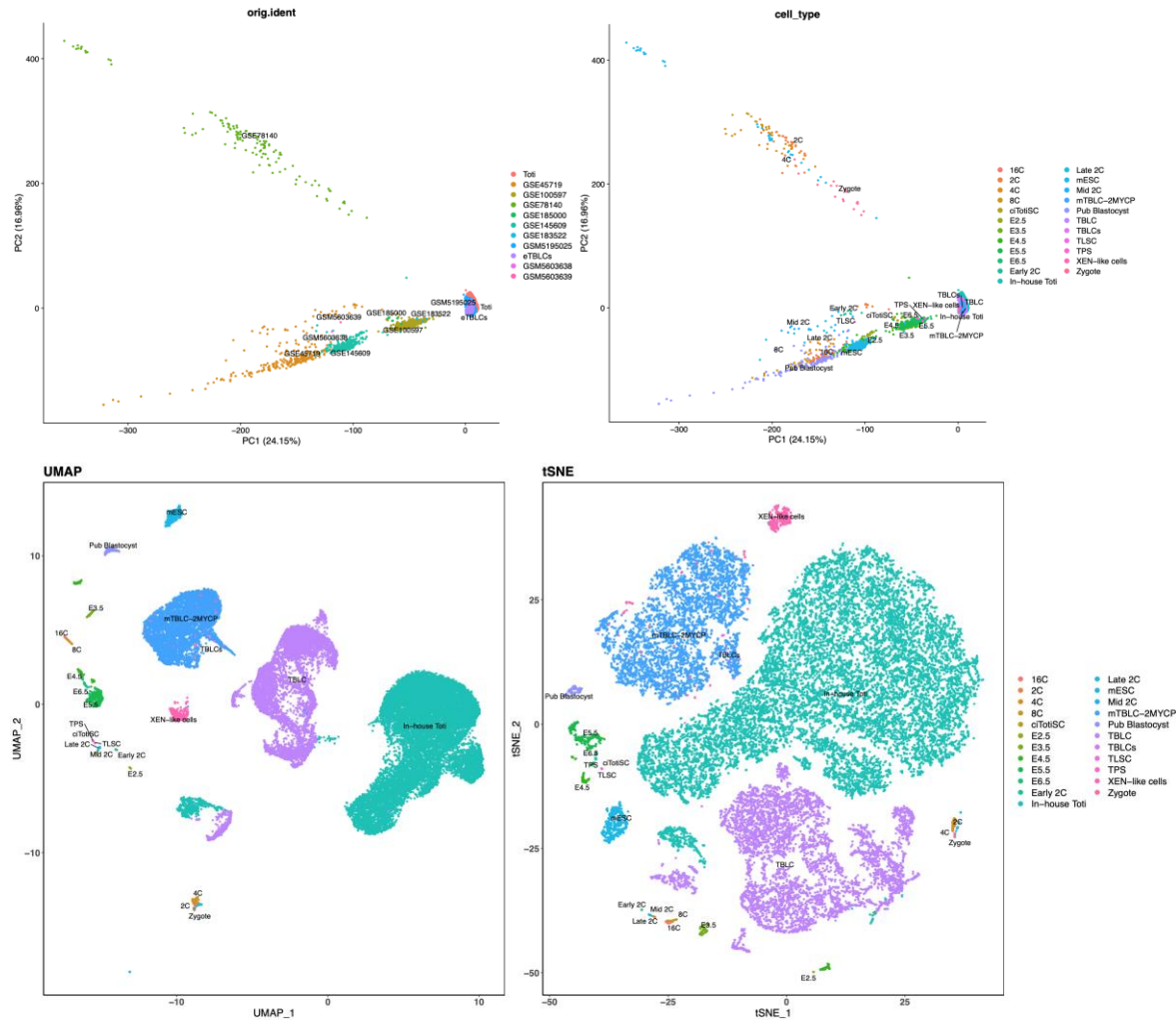


过滤前细胞数：14244  
过滤后细胞数：13936  
过滤比例：2 %



分析目的：我们in house toti cells (10X) 是否其他细胞相比，其整体表达谱更类似于小鼠2C胚胎

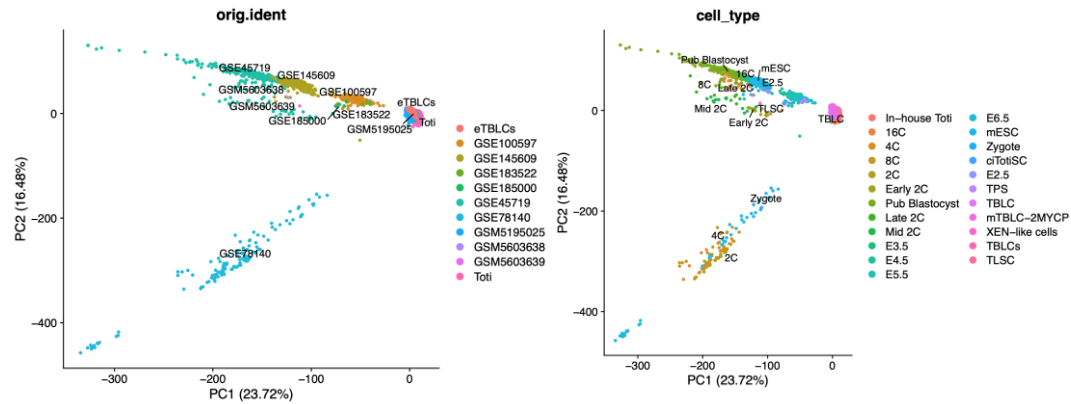
1.UMAP/tSNE/PCA分析，胚胎公共数据：Zygote, Early 2C, Middle 2C, Late 2C, 2C, 4C, 8C, 16C( GSE45719 ), E3.5, E4.5, E6.5(GSE100597), E6.75, 对照： mESC(GSE78140) , 其他已经published 细胞公共数据： ciTotiSC (GSE:) , L-EPSC (GSE145609), D-EPSC ( GSE145609 ) , TBLC (GSM5195025), 2MYCP-TBLC ([GSM7798458](#)), TLSC([GSM5603638](#), [GSM5603639](#)), TPS (GSE183522)。



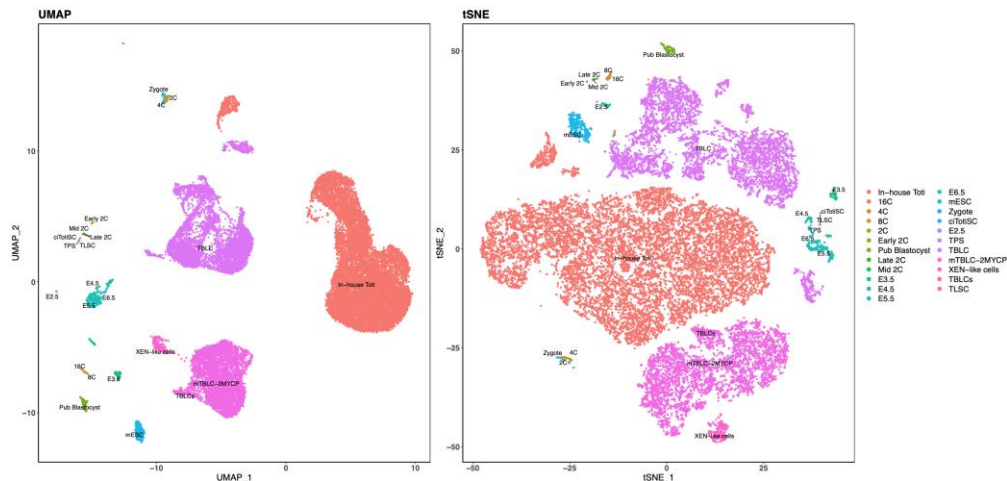
Merge data  
Correction Method: **ComBat\_seq**

分析目的：我们in house toti cells (10X) 是否其他细胞相比，其整体表达谱更类似于小鼠2C胚胎

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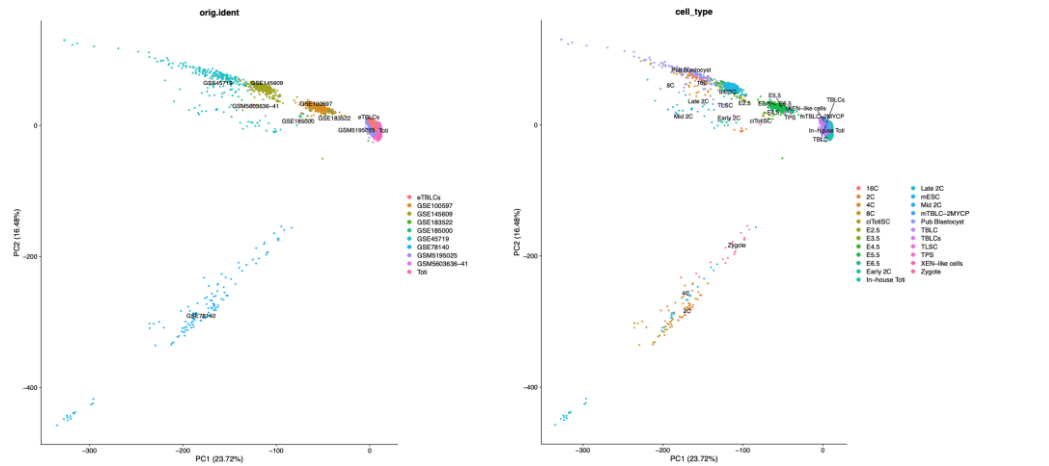


Merge data  
Correction Method: **Harmony**

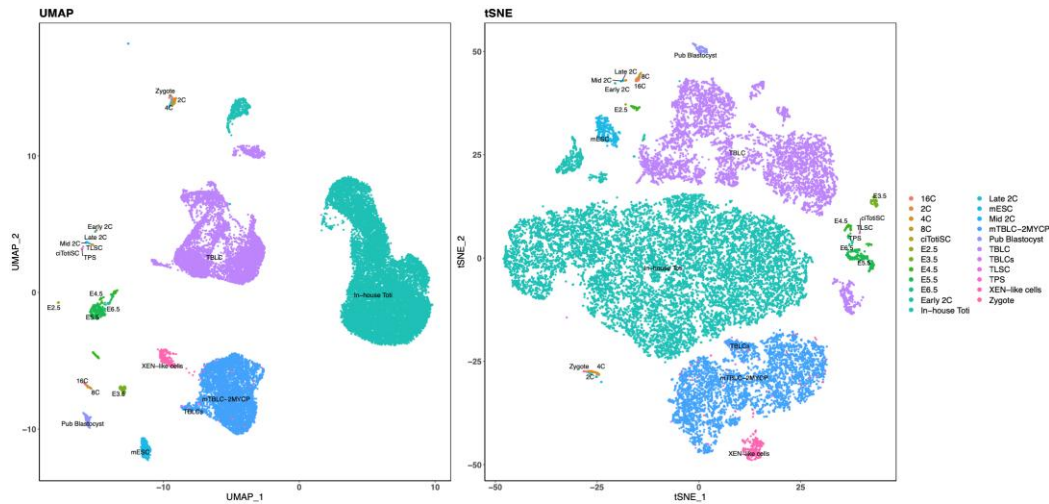


分析目的：我们in house toti cells (10X) 是否其他细胞相比，其整体表达谱更类似于小鼠2C胚胎

1.UMAP/tSNE/PCA分析，胚胎公共数据：Zygote, Early 2C, Middle 2C, Late 2C, 2C, 4C, 8C, 16C( GSE45719 ), E3.5, E4.5, E6.5(GSE100597), E6.75, 对照： mESC(GSE78140) , 其他已经published 细胞公共数据： ciTotiSC (GSE:) , L-EPSC (GSE145609), D-EPSC ( GSE145609 ) , TBLC (GSM5195025), 2MYCP-TBLC ([GSM7798458](#)), TLSC([GSM5603638](#), [GSM5603639](#)), TPS (GSE183522)。



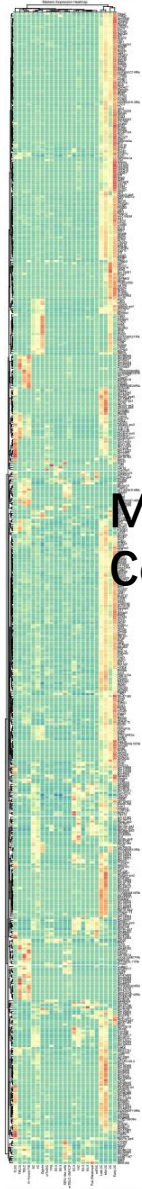
Raw Merge data  
Correction Method: **None**





2. Specific genes 表达: totipotent genes, 2C specific genes及maternal及ZGA基因 在zygote/E2C/M2C/L2C高表达的基因在我们in house细胞中也表达, 在mESC中高表达的pluripotent基因在我们的细胞中低表达。

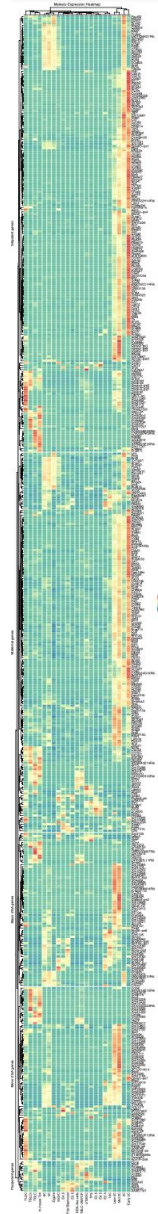
这些基因set有对应的gene list



Merge data

Correction Method: **ComBat\_seq**

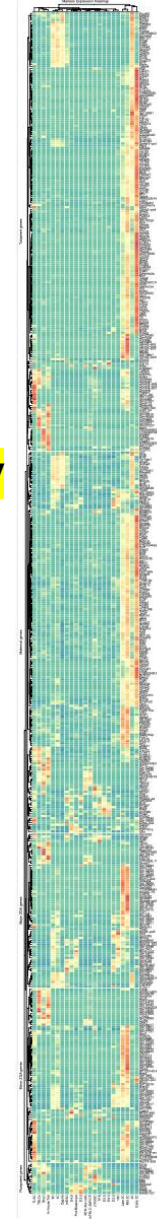
corrected\_marker\_heatm  
ap\_ComBat\_seq.pdf



Merge data

Correction Method: **Harmony**

corrected\_marker\_heatm  
ap\_Harmony.pdf

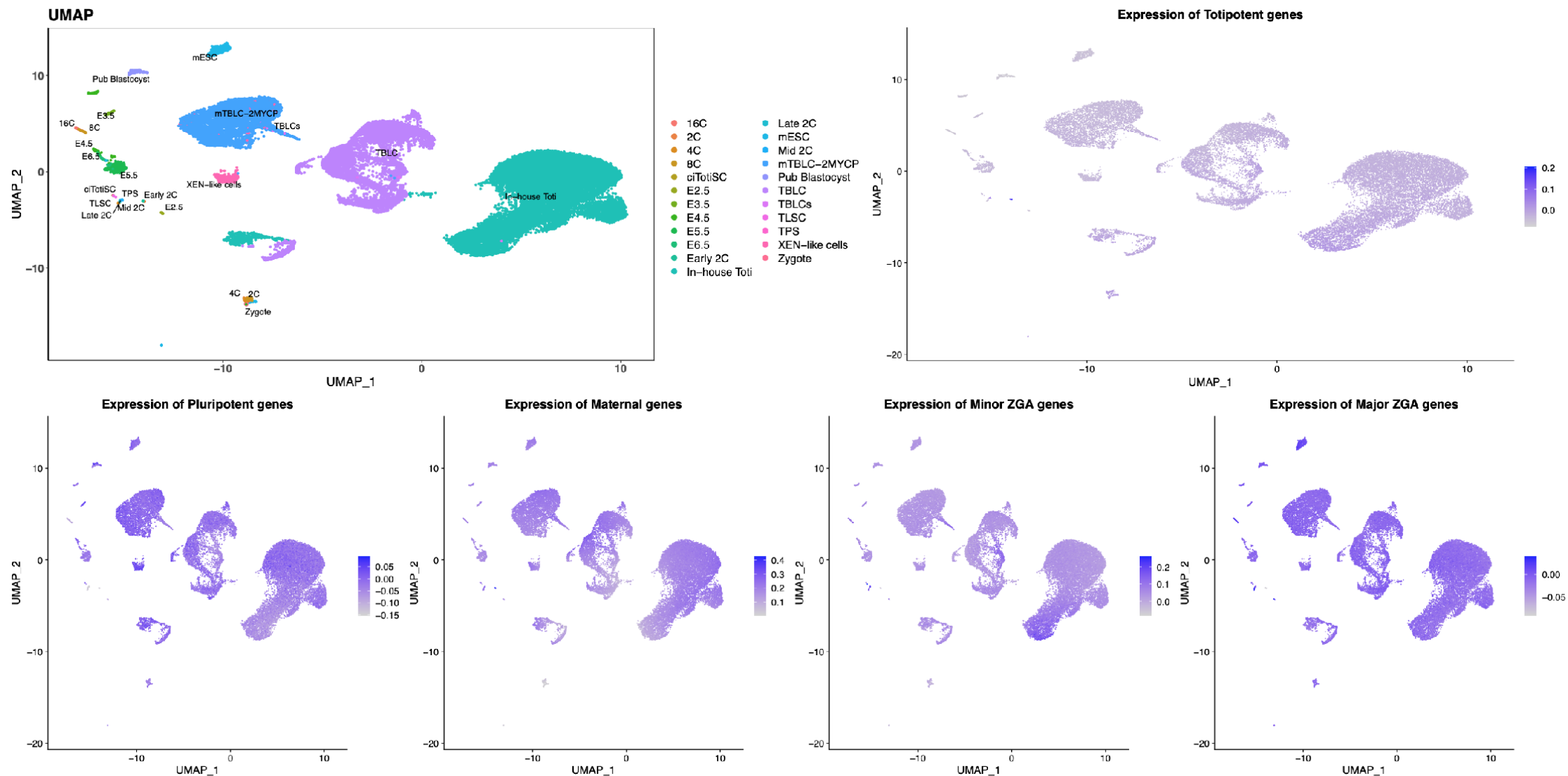


Raw Merge data

Correction Method: **None**

corrected\_marker\_heatm  
ap\_raw\_merge\_data.pdf

## 2. UMAP或者tSNE分析 totipotent genes 及pluripotent genes 表达情况

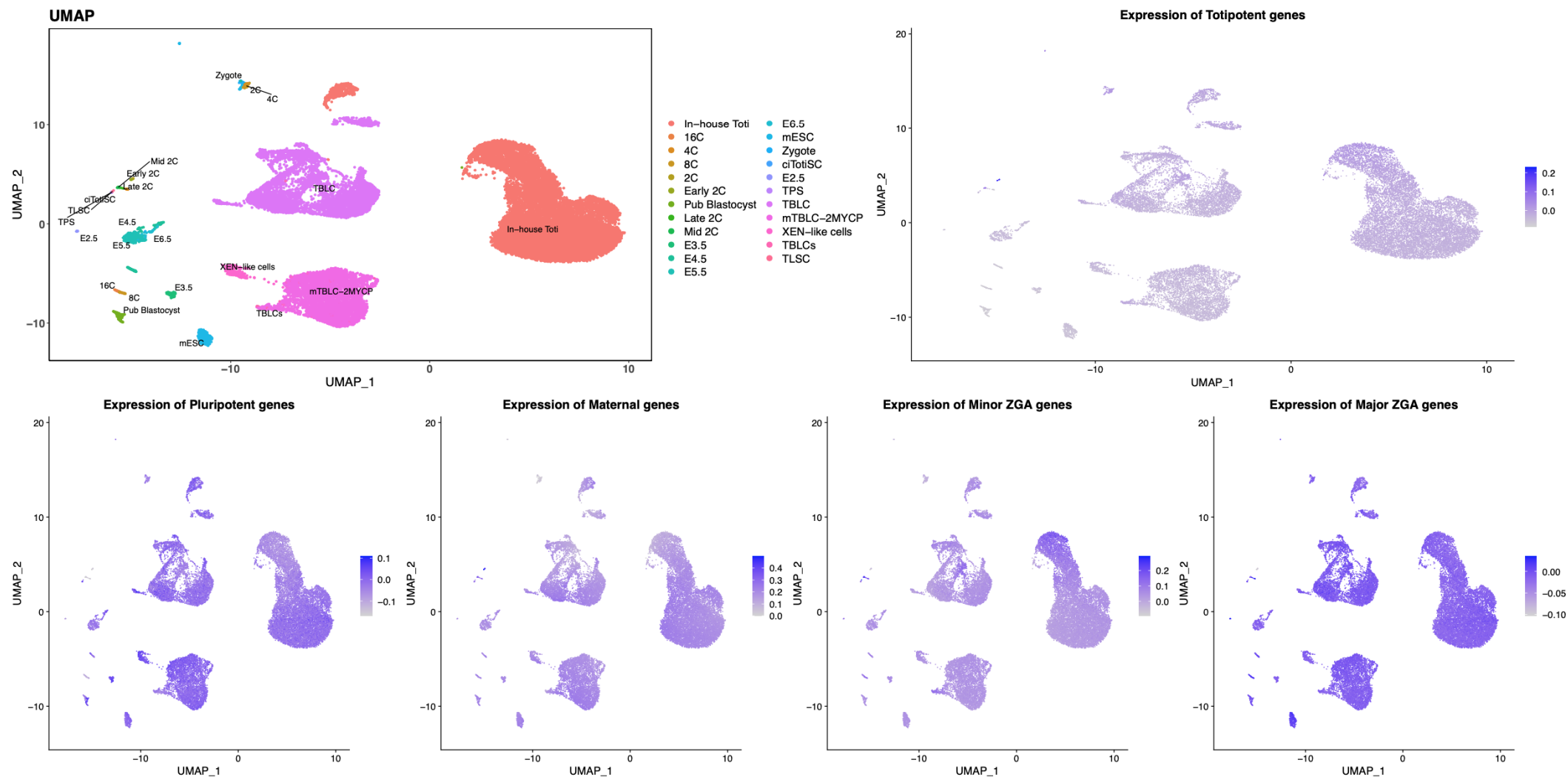


Merge data

Correction Method: **ComBat\_seq**

specific\_feature\_plot\_ComBat\_seq.pdf

## 2. UMAP或者tSNE分析 totipotent genes 及pluripotent genes 表达情况

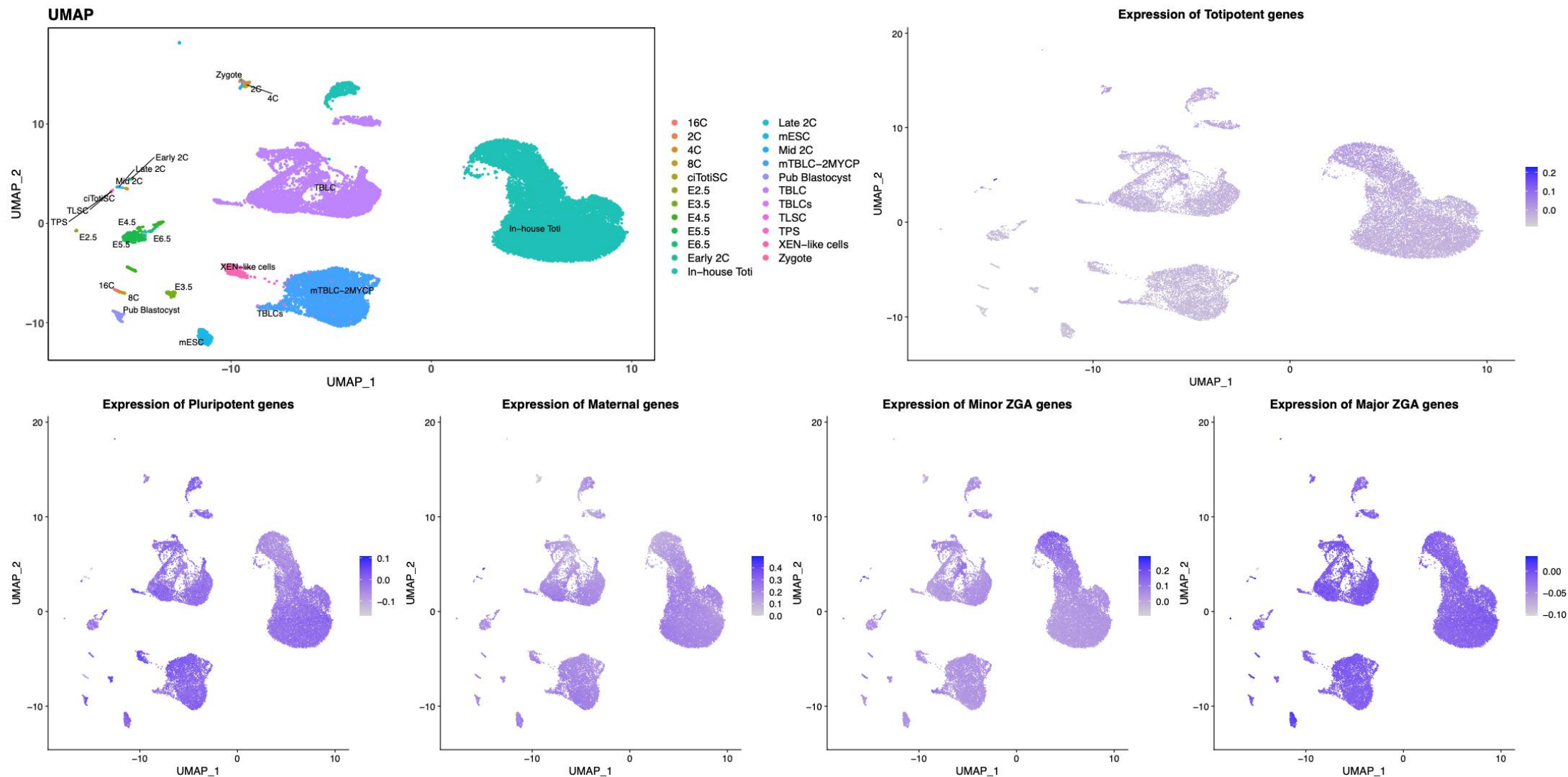


Merge data

Correction Method: **Harmony**

[specific\\_feature\\_plot\\_Harmony.pdf](#)

## 2. UMAP或者tSNE分析 totipotent genes 及pluripotent genes 表达情况



Raw Merge data

Correction Method: **None**

specific\_feature\_plot\_raw\_merge\_data.pdf