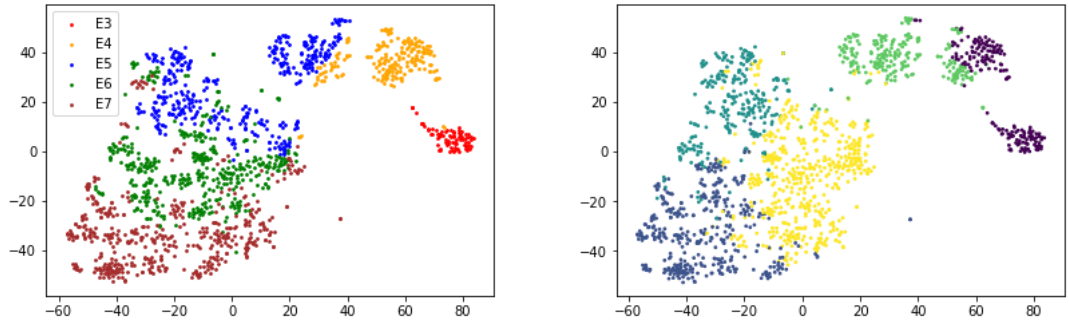
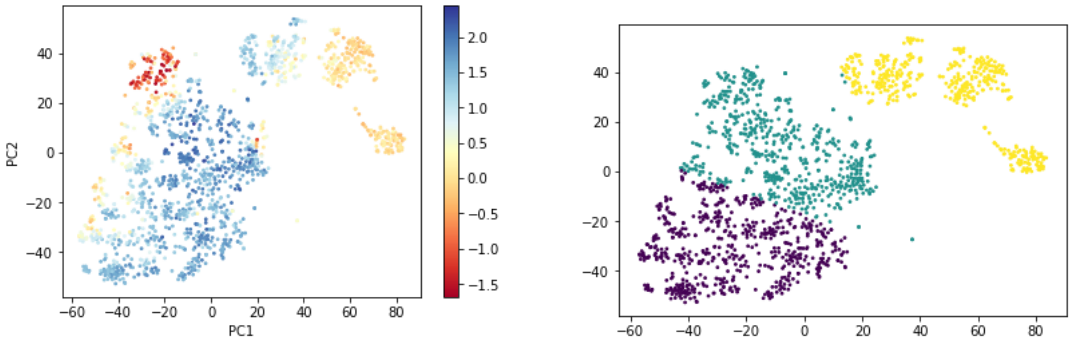
Machine Learning Final Project

Supplementary Materials

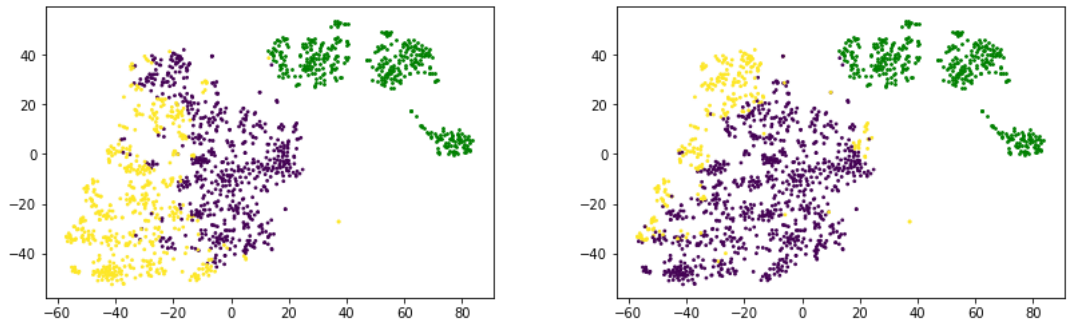


(A) (B)

Figure S1 Clustering in day. (A) result of colored clustering. (B) result of unsupervised learning



(A) (B)



(C) (D)

Figure S2 Segregation of ICM and TE. (A) ICM-TE expression across all cells; (B) clustering across all cell with k = 3; (C) clustering in non-pre-lineage PCA subspace; (D) clustering in ICM-TE marker genes RPKM PCA subspace (green dots are pre-lineage cells).

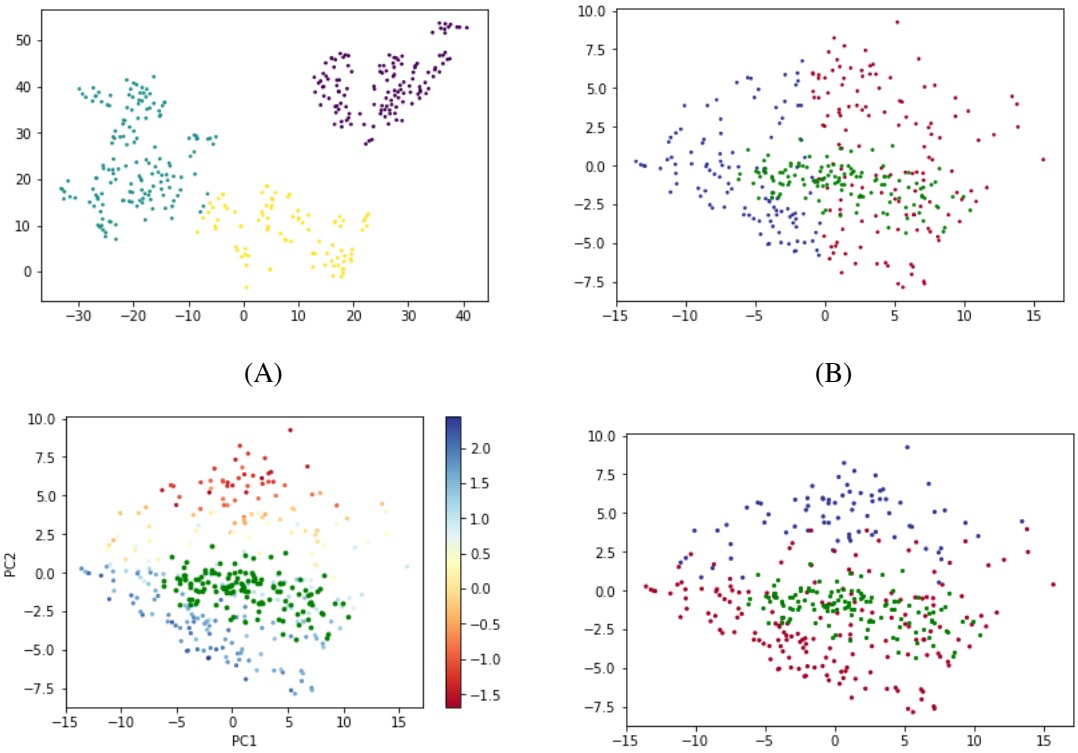


Figure S3 Segregation of ICM and TE on E5. (A) clustering in E5 t-SNE subspace; (B) clustering in E5 non-pre-lineage cells PCA subspace; (C) ICM-TE expression in E5 non-pre-lineage cells; (D) clustering in ICM-TE marker genes RPKM PCA subspace. (green dots are pre-lineage cells)

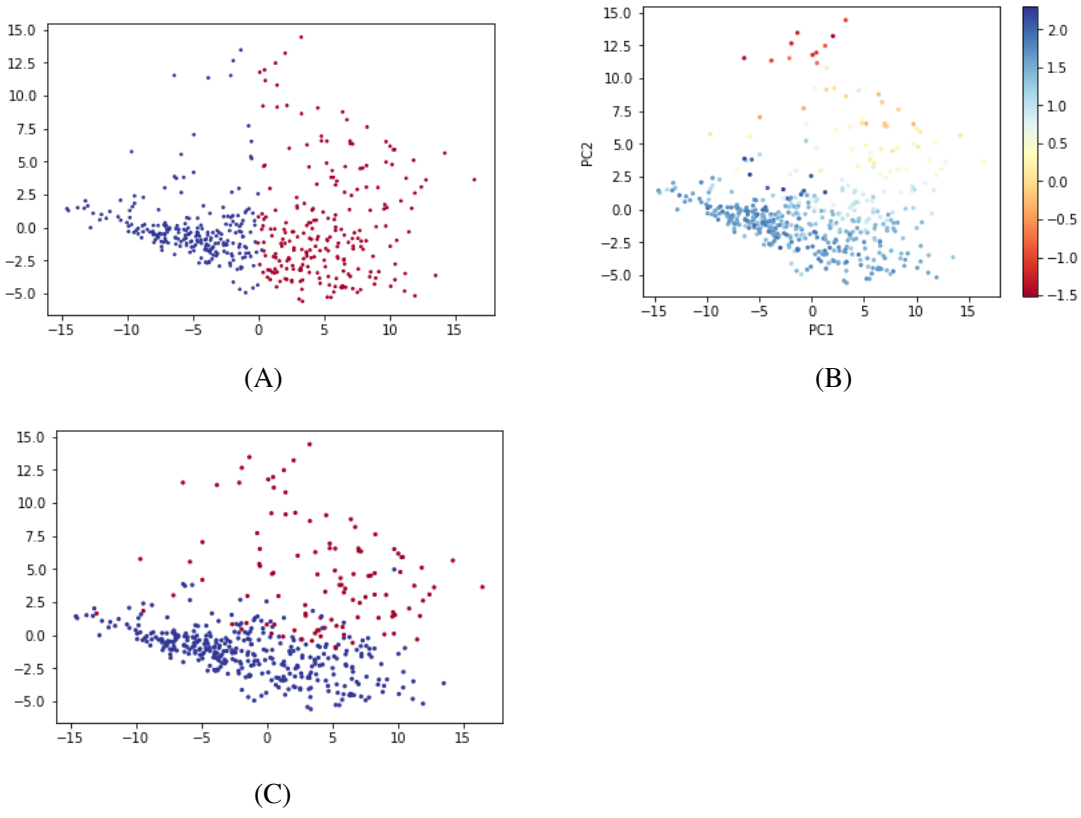
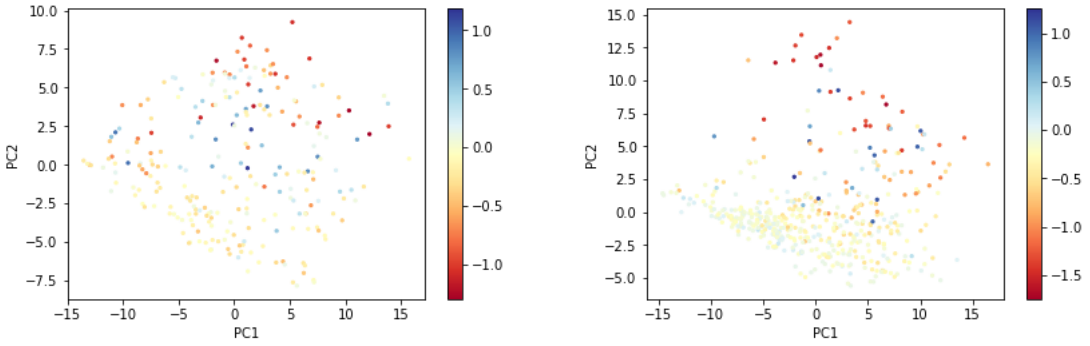
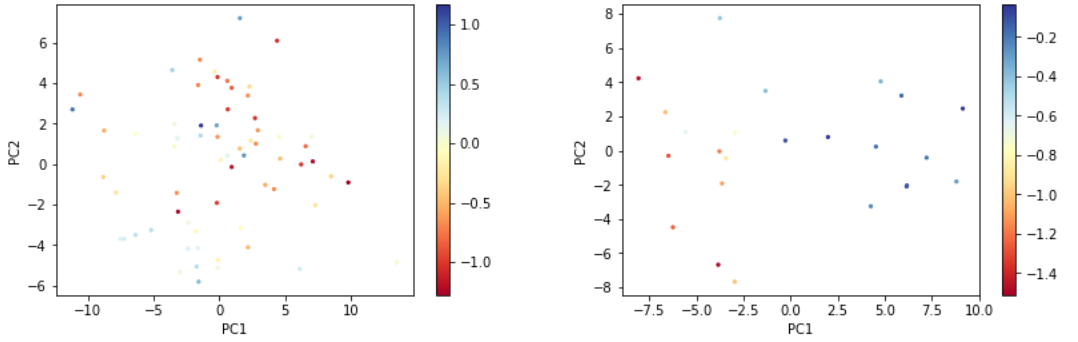


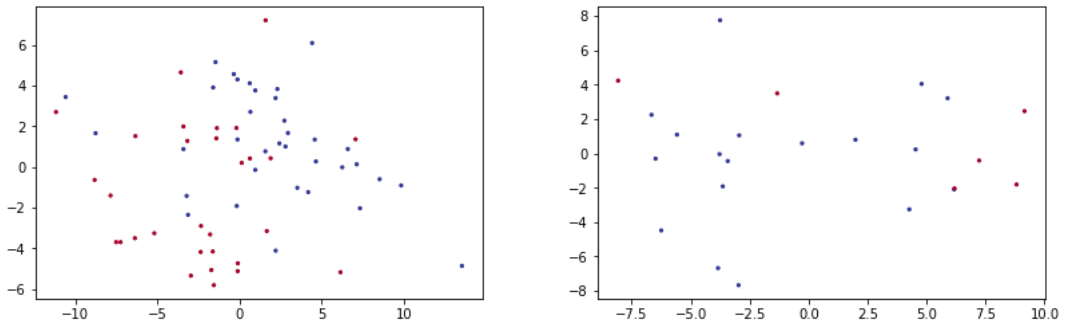
Figure S4 Segregation of ICM and TE on E7. (A) clustering in E7 PCA subspace; (B) ICM-TE expression in E7 cells; (C) clustering in ICM-TE marker genes RPKM PCA subspace on E7.



(A) (B)



(C) (D)



(E) (F)

Figure S5 Segregation of EPI and PE on E5 and E7. (A)EPI-PE marker genes expression on E5 non-pre-lineage cells; (B) EPI-PE marker genes expression on E7 cells; (C) EPI-PE marker genes expression on E5 ICM cells; (D) EPI-PE marker genes expression on E7 ICM cells; (E) clustering in EPI-PE marker genes RPKM PCA subspace of E5 ICM cells; (F) clustering in EPI-PE marker genes RPKM PCA subspace of E7 ICM cells.