AML4_Rx

jtrincado

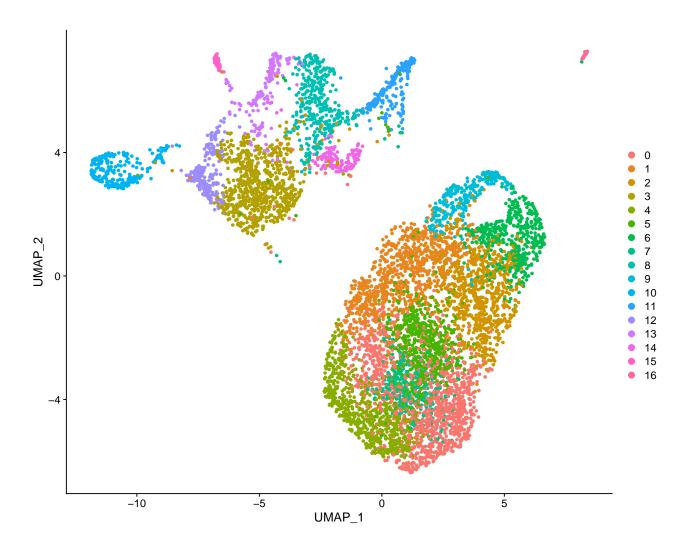
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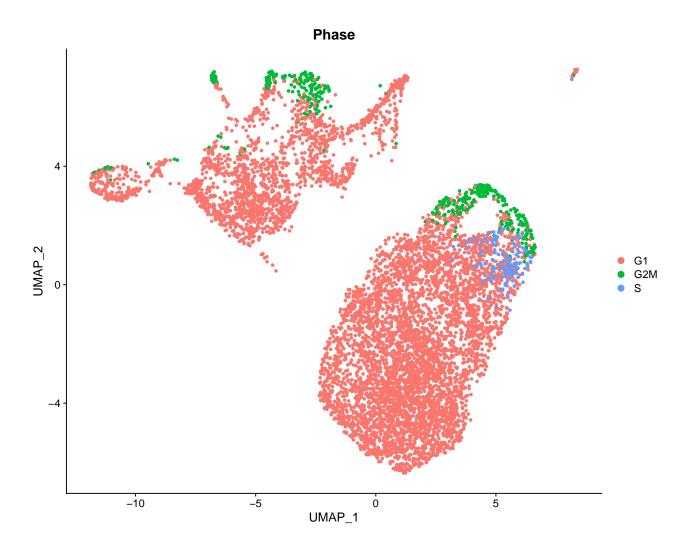
Contents

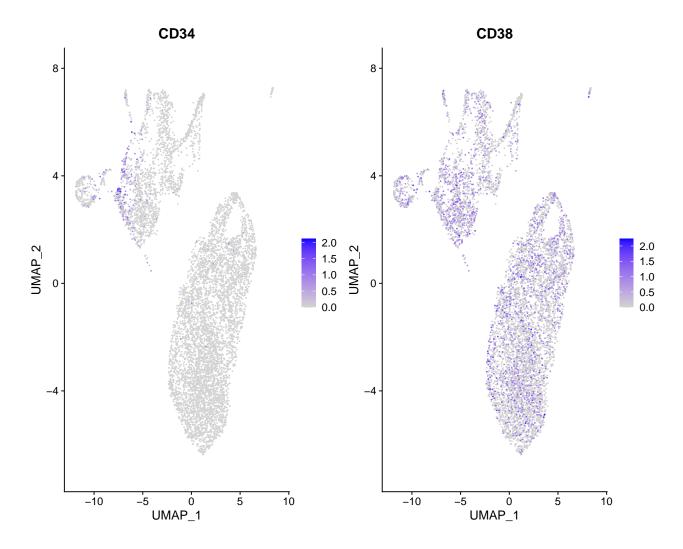
1. Put together both 34 and 38 libraries. Apply QC and dimensionality reduction	1
2. Get the LSC6 score	4
3. Predict the class of the cells using the markers and the expression of the BM cells form Van_Galen	
paper	6
4. Project the predictions from Velten onto our UMAP	10

1. Put together both 34 and 38 libraries. Apply QC and dimensionality reduction.

- $\hbox{\it \#\# Warning: The default method for $RunUMAP$ has changed from calling Python $UMAP$ via reticulate to the $Result of the$
- ## To use Python UMAP via reticulate, set umap.method to 'umap-learn' and metric to 'correlation'
- ## This message will be shown once per session

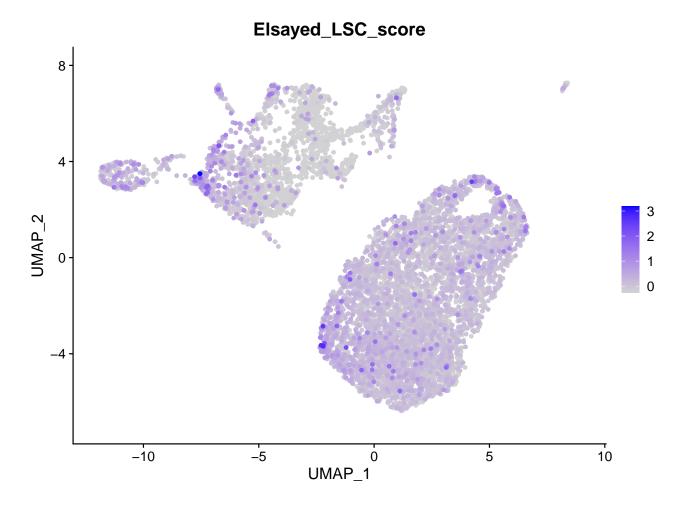


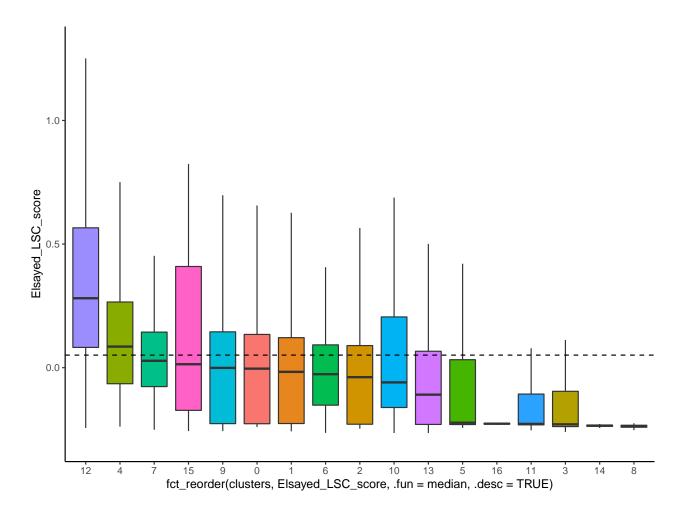




2. Get the LSC6 score

[1] "CD34" "SPINK2" "SOCS2" "FAM30A" "ADGRG1" "DNMT3B"

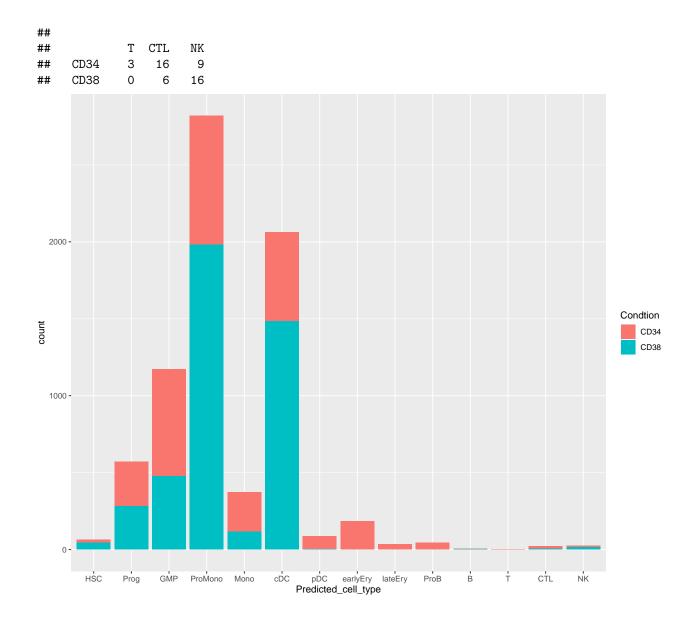


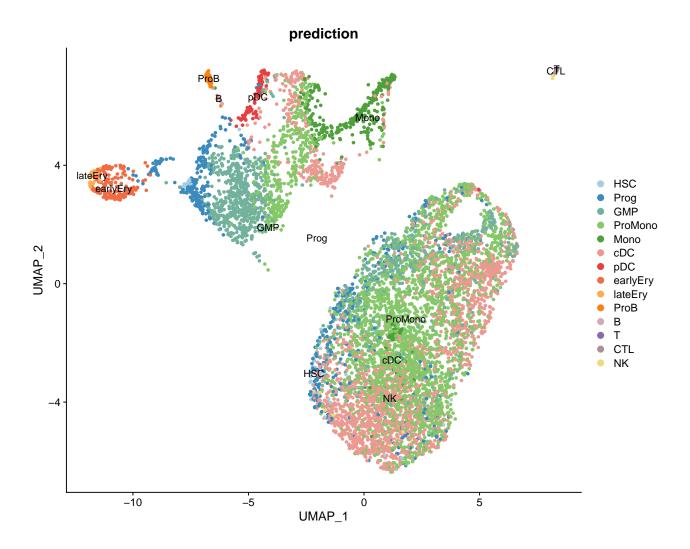


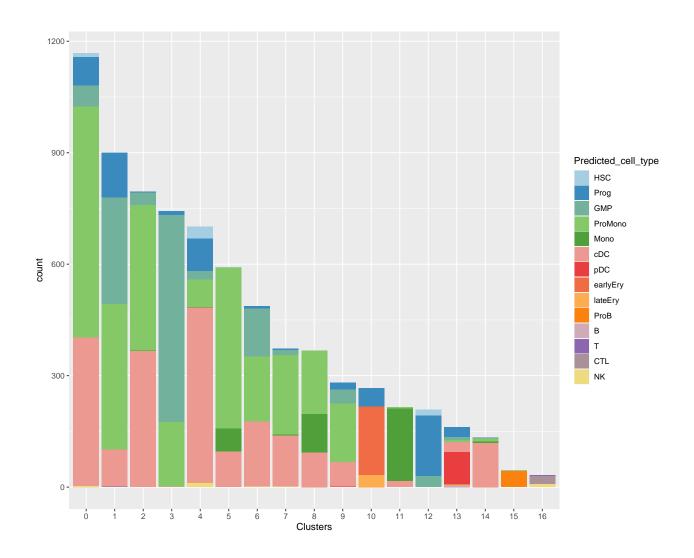
3. Predict the class of the cells using the markers and the expression of the BM cells form Van_Galen paper

- ## Performing PCA on the provided reference using 1821 features as input.
- ## Projecting cell embeddings
- ## Finding neighborhoods
- ## Finding anchors
- ## Found 4073 anchors
- ## Filtering anchors
- ## Retained 3090 anchors
- ## Finding integration vectors
- ## Finding integration vector weights
- ## Predicting cell labels

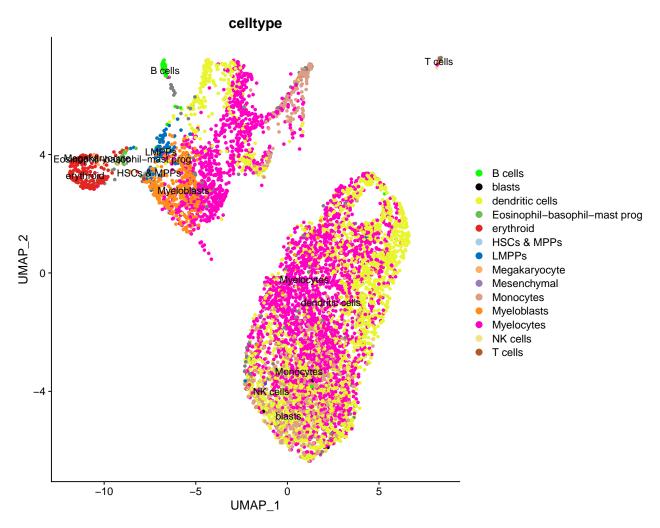
pDC earlyEry lateEry ProB ## HSC Prog GMP ProMono Mono \mathtt{cDC} B Plasma 698 579 87 185 45 3 ## **CD34** 840 257 0 CD38 43 282 475 1981 115 1485 0 0 3 0 ## 1

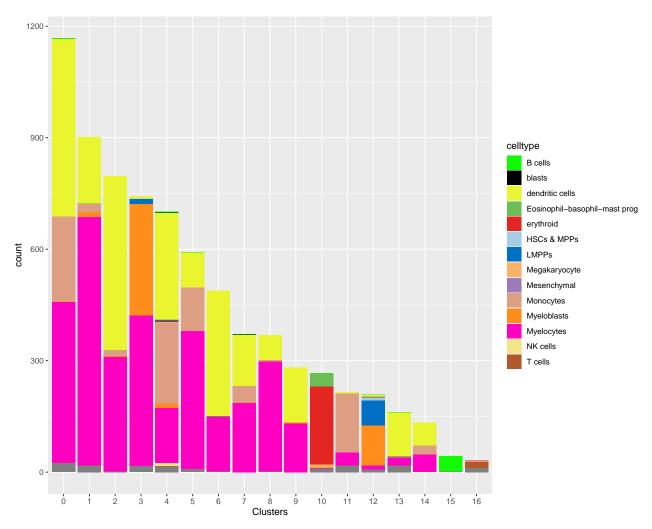






4. Project the predictions from Velten onto our UMAP





Cluster 12 seems the one with greater LSC6 score. Custer 4 is above the D10, but there are more HSC predicted on cluster 12