AML9_Rx

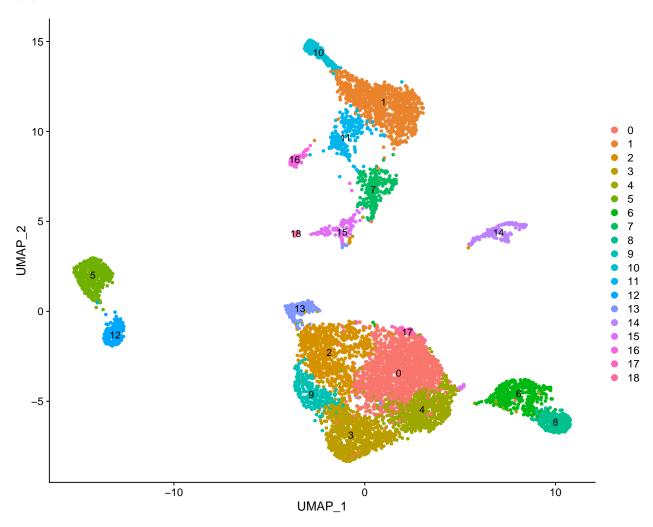
jtrincado

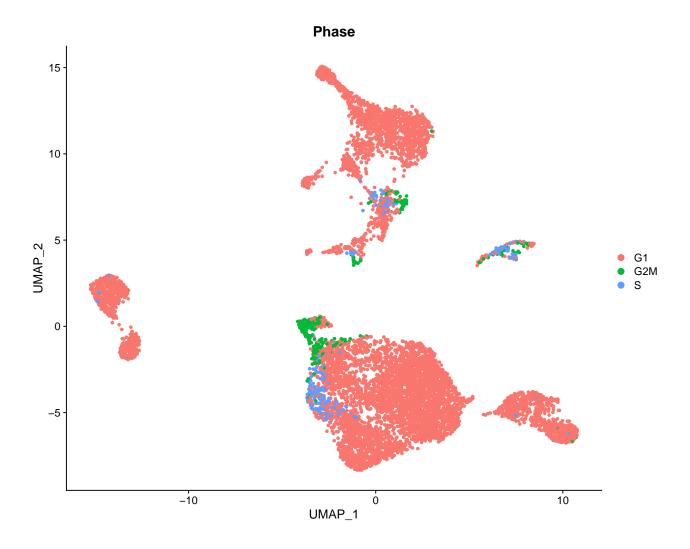
2022-02-09 10:27:43

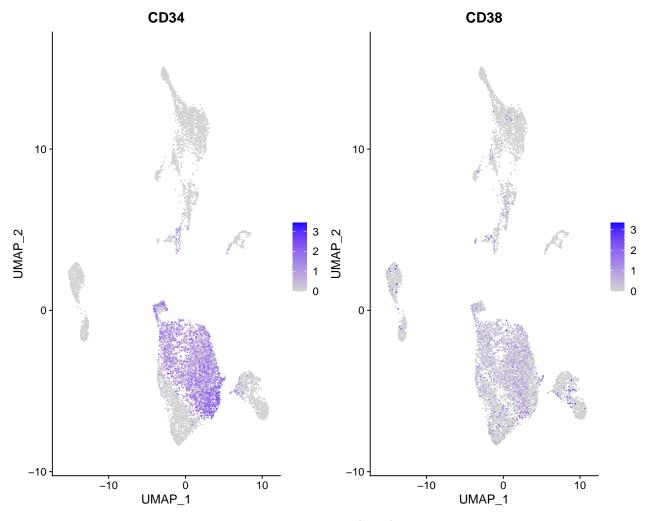
Contents

1.	Put together both 34 and 38 libraries. Apply QC and dimensionality reduction	2
2.	Get the LSC6 score	5
3.	Predict the class of the cells using the markers and the expression of the BM cells form Van_Galen	
	paper	7
4.	Project the predictions from Velten onto our UMAP	11

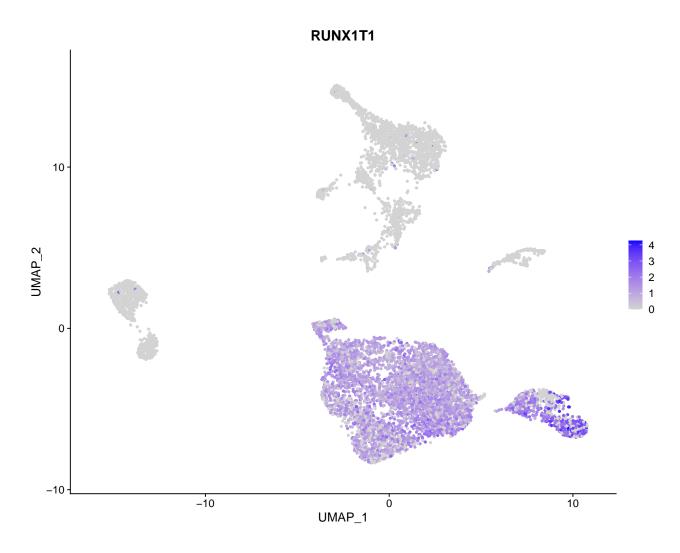
1. Put together both 34 and 38 libraries. Apply QC and dimensionality reduction.





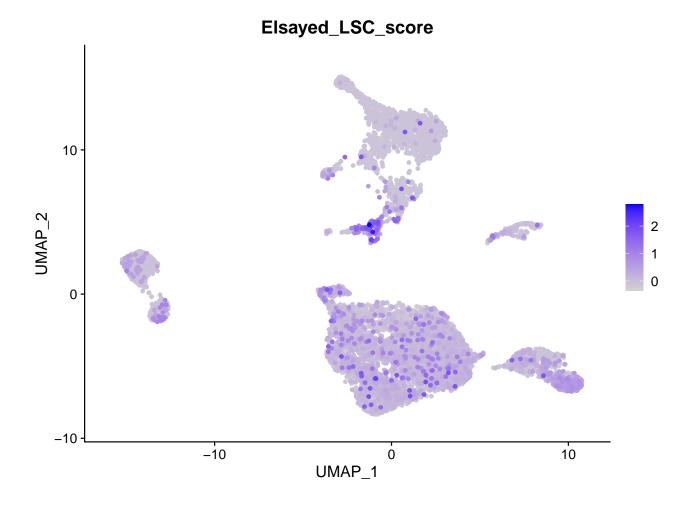


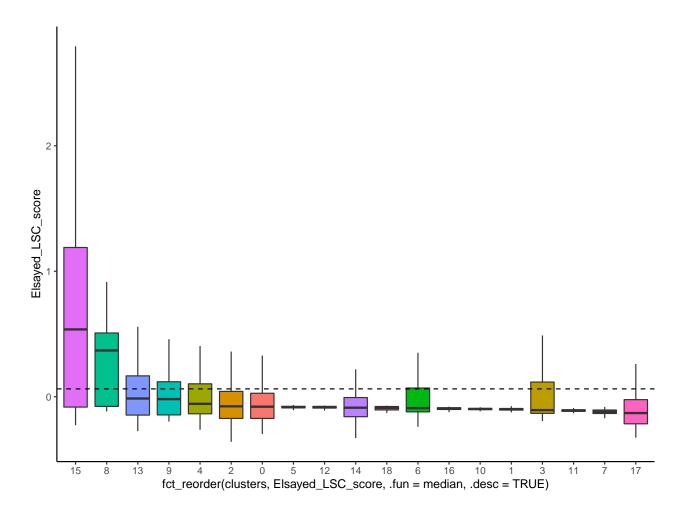
Check for expression of malignant marker for t(8;21) RUNX1T1



2. Get the LSC6 score

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



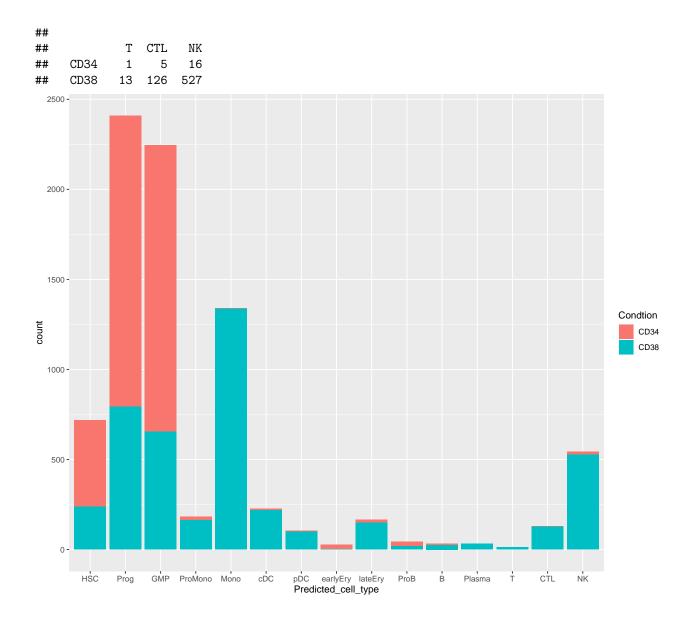


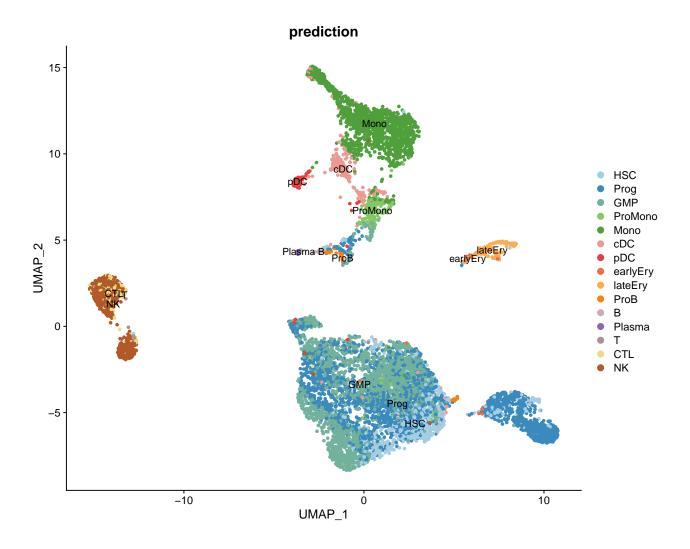
3. Predict the class of the cells using the markers and the expression of the BM cells form Van_Galen paper

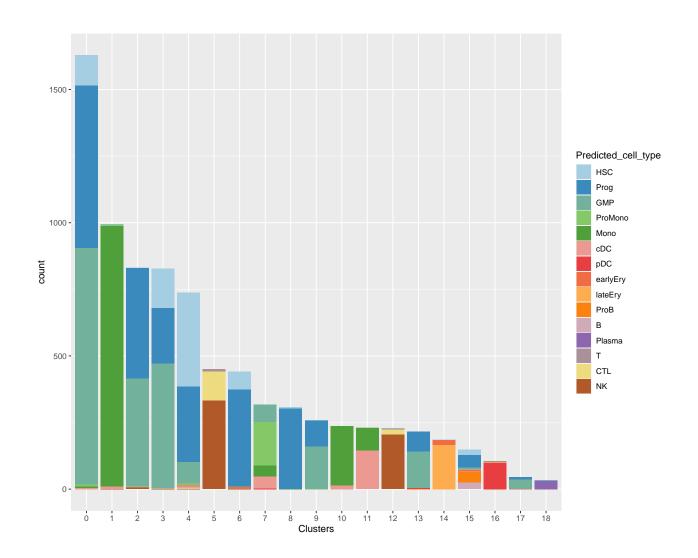
```
## Performing PCA on the provided reference using 1821 features as input.
```

- ## Projecting cell embeddings
- ## Finding neighborhoods
- ## Finding anchors
- ## Found 3841 anchors
- ## Filtering anchors
- ## Retained 2763 anchors
- ## Finding integration vectors
- ## Finding integration vector weights
- ## Predicting cell labels

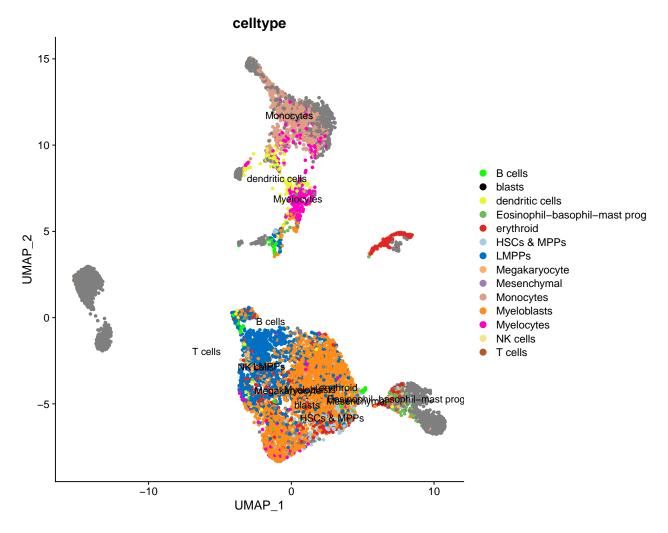
pDC earlyEry lateEry ProB ## HSC Prog GMP ProMono Mono \mathtt{cDC} B Plasma 26 ## **CD34** 482 1618 1593 22 1 8 25 8 0 CD38 238 792 654 162 1338 218 98 2 149 18 25 31

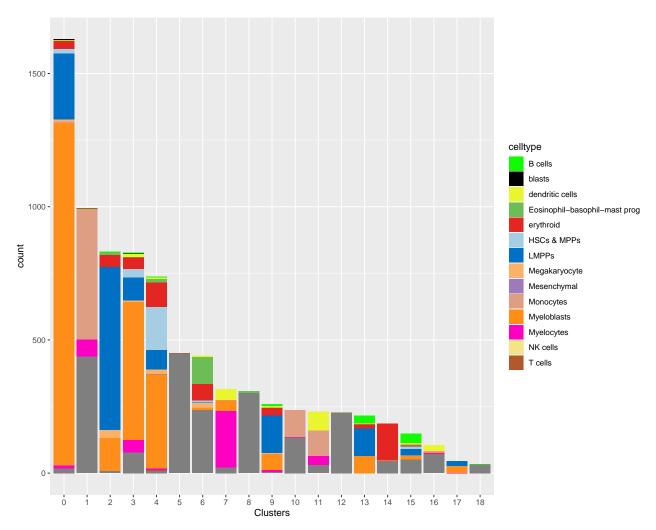






4. Project the predictions from Velten onto our UMAP





Cluster 15 seems to be healthy residual cells, non expressing tumoral marker RUNXiT1. Clusters 8, 13 and 9 they express RUNX1T1, but have not predicted any HSC from both in-silico predictions. Cluster 4, spite of would be under the threshold, is way more enriched in HSC predicted cells. In addition, this is the cluster that colocalize with cluster LSC 2 from the paired Dx. Therefore we would consider this cluster as the more likely enriched on LSC