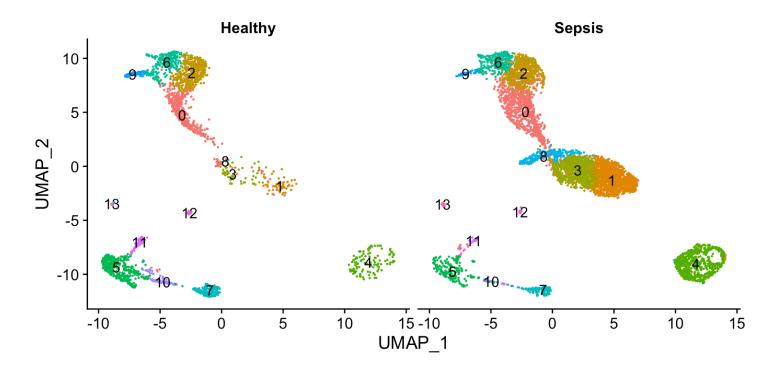
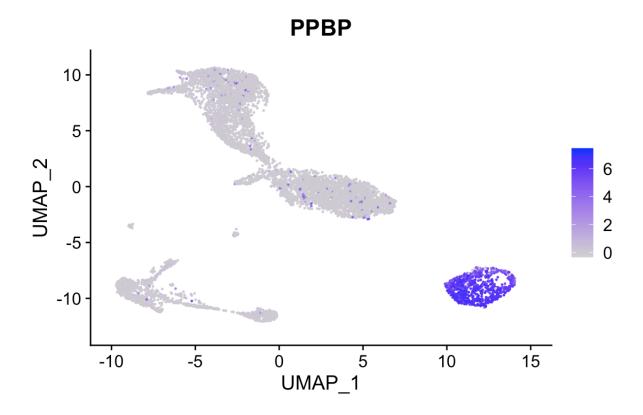
Manual Cluster Annotation

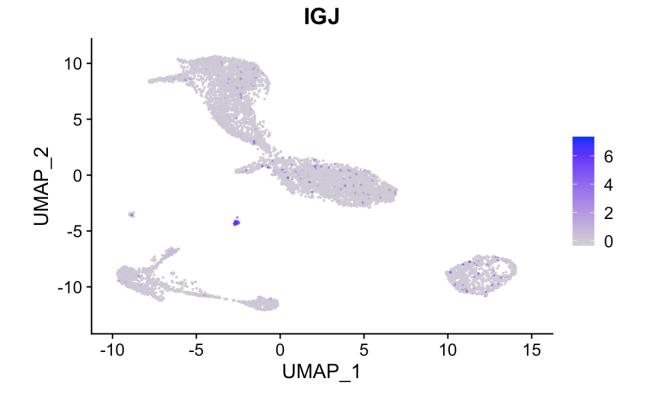


Below are series of marker genes that we looked at to help manually identify/label clusters:

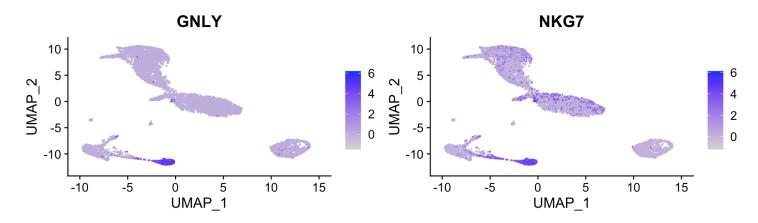
Cluster 4 is Platelet based on PPBP expression:



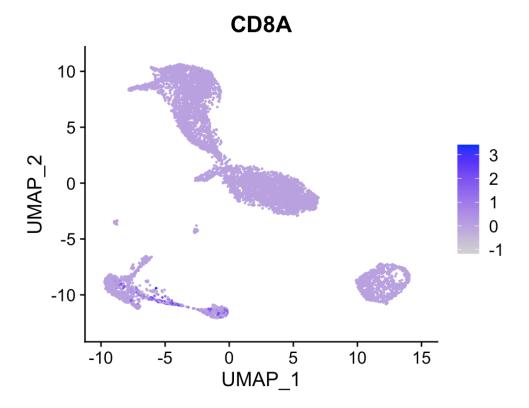
Cluster 12 is pDC based on IGJ expression:



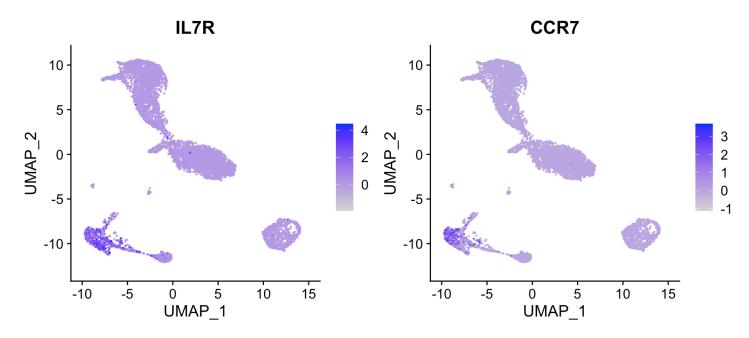
Cluster 7 is activated T based on GNLY and NKG7 expression:



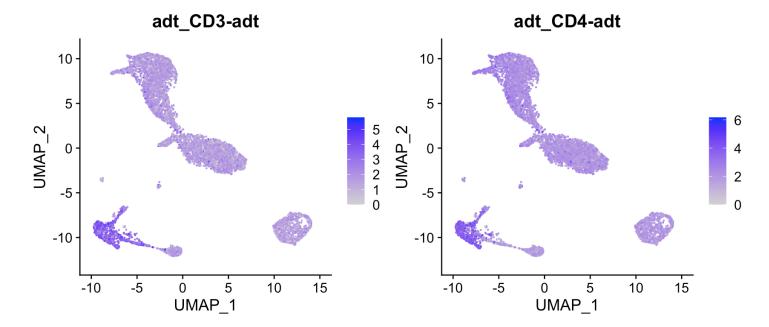
Cluster 10 is CD8+ T-cell based on CD8A expression:



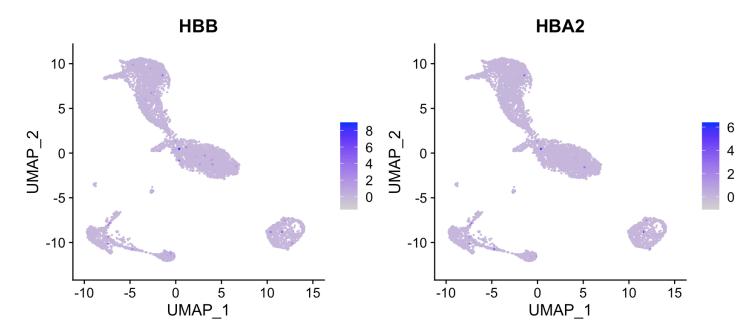
Cluster 5 is CD4+ T-cell based on IL7R expression:



Cluster 11 is also CD4+ T-cell. Here using the ADT tags to refine, specifically CD3 and CD4:

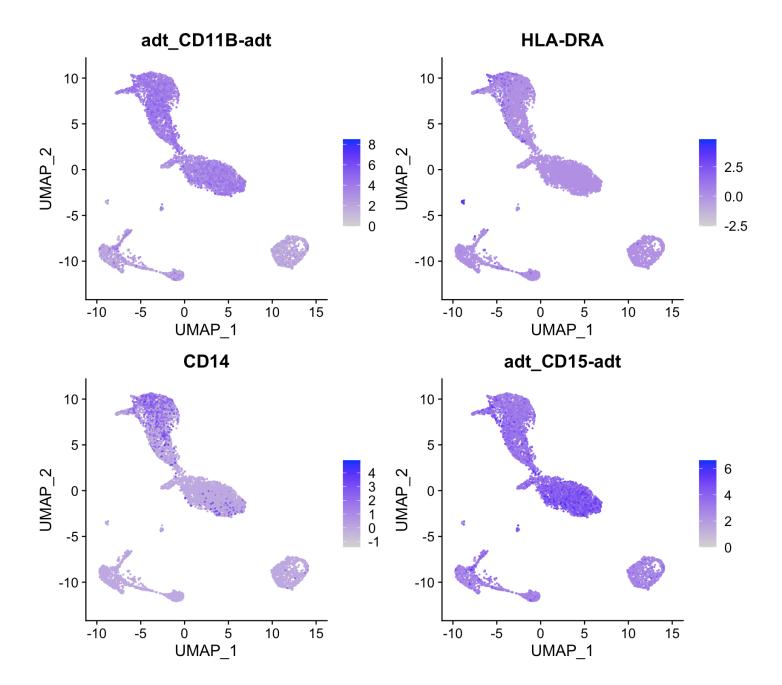


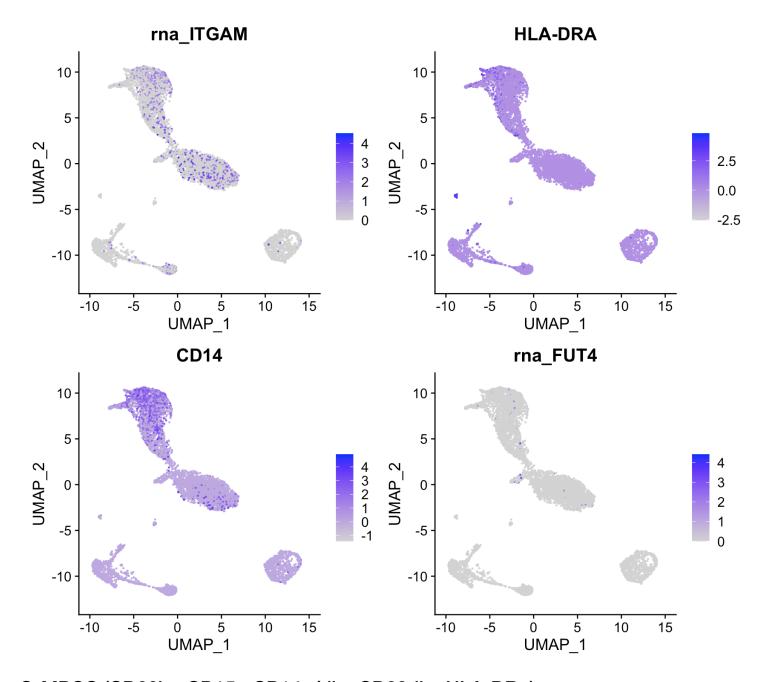
No erthyrocytes based on HBB and HBA2 expression.



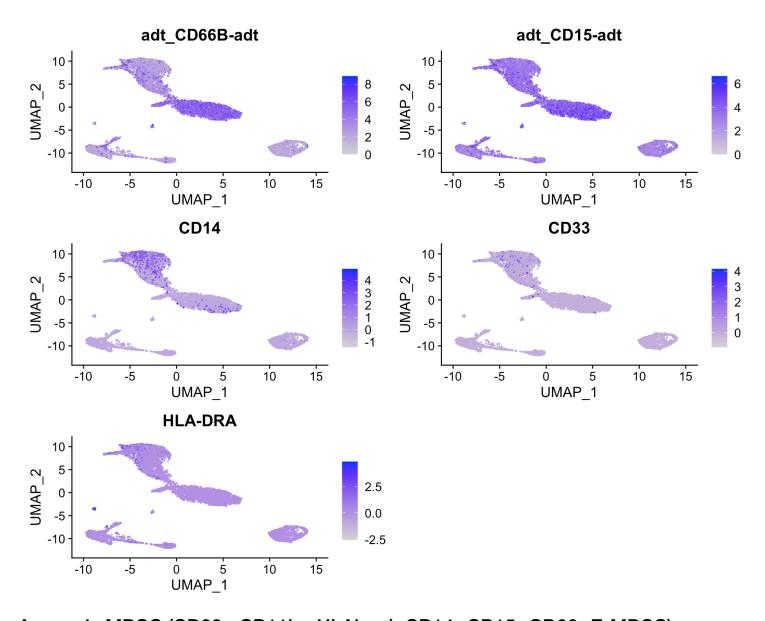
M-MDSC (CD11b+ HLA-DR- CD14+ CD15-), using the gene expression and surface proteins for granularity here:

Maybe clusters 0 and 2 are M-MDSC.

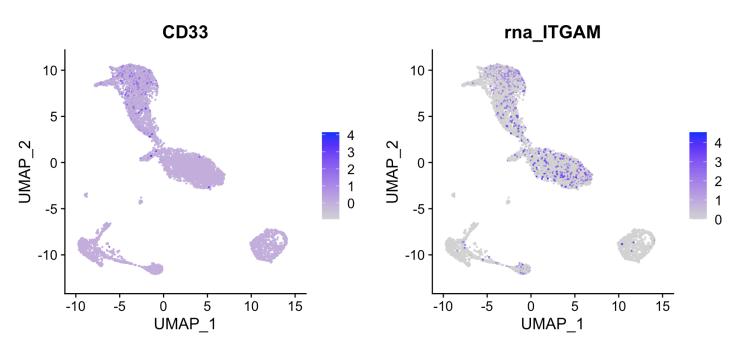


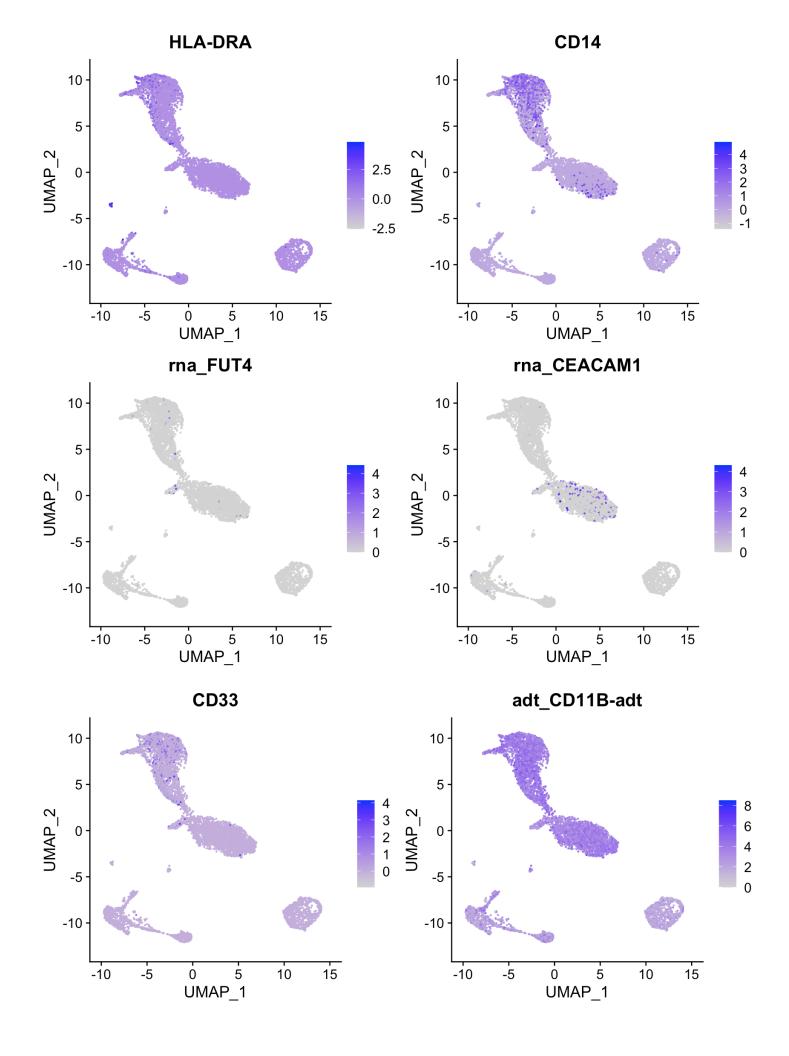


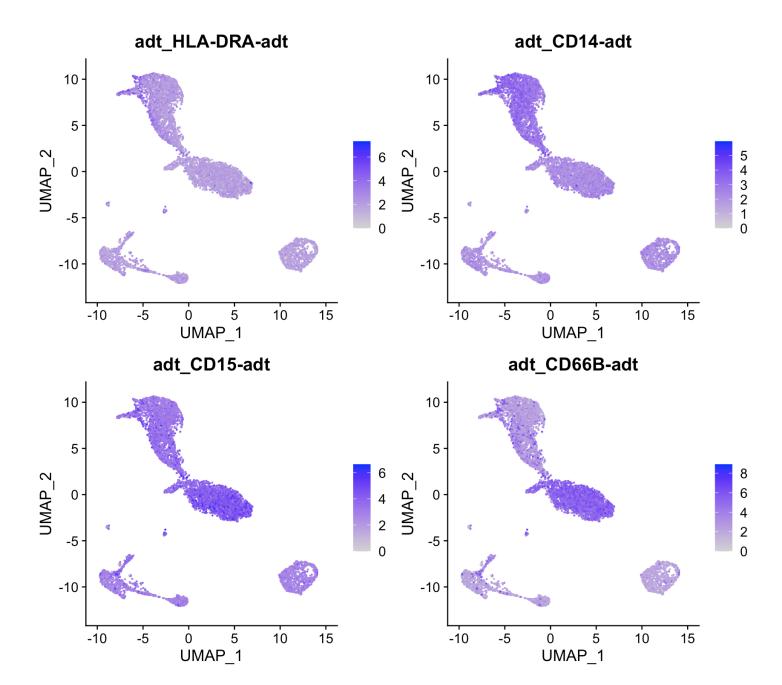
G-MDSC (CD66b+ CD15+ CD14-/dim CD33dim HLA-DR-): Clusters 1, 3 are G-MDSC.

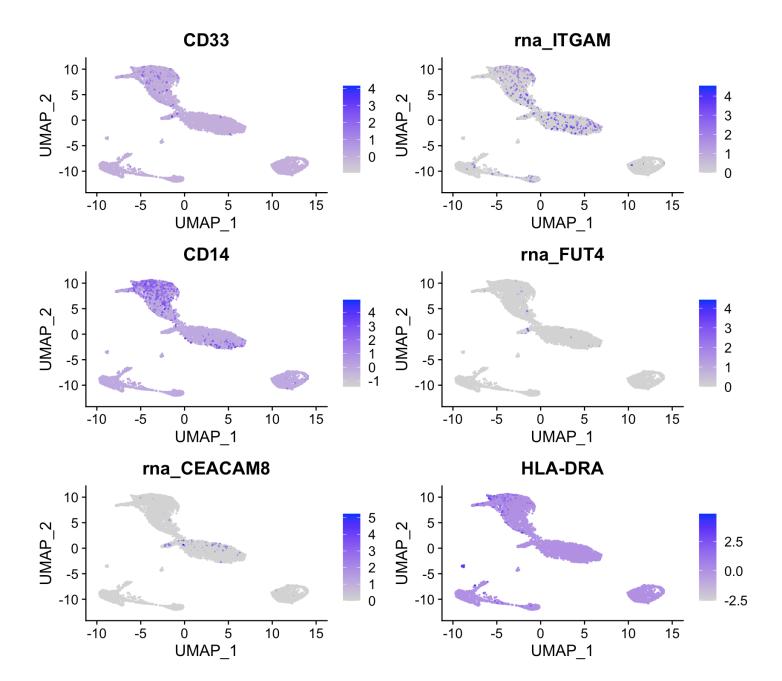


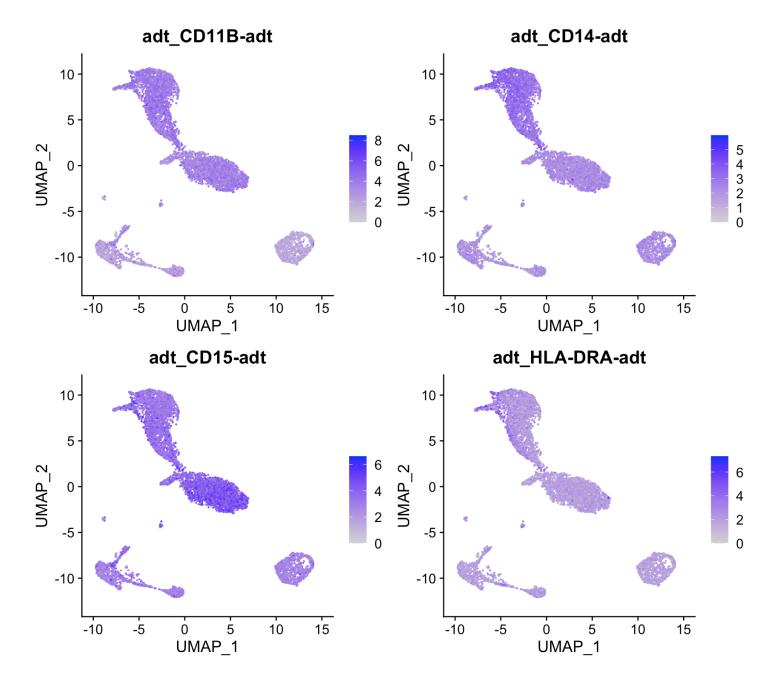
Any early MDSC (CD33+ CD11b+ HLAlow/- CD14- CD15- CD66- E-MDSC) - Cluster 8.



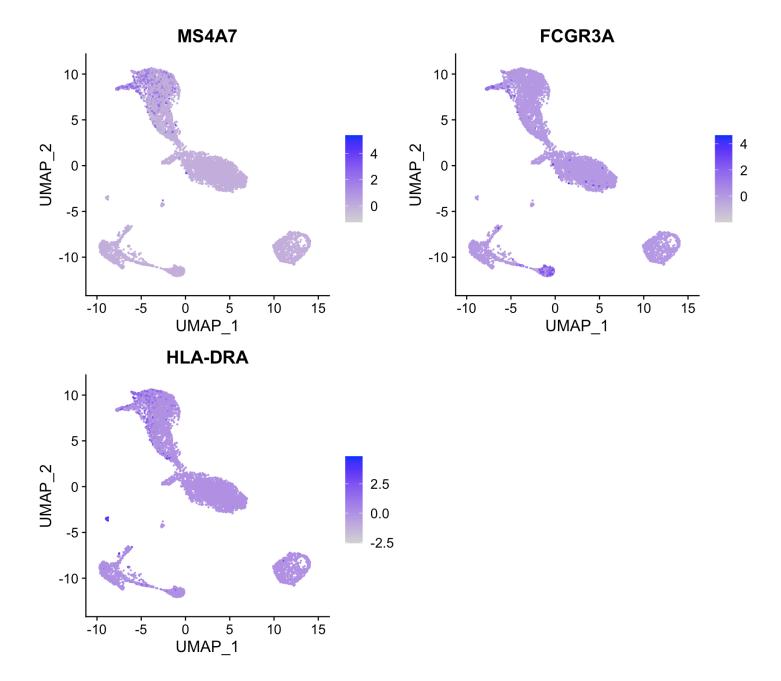




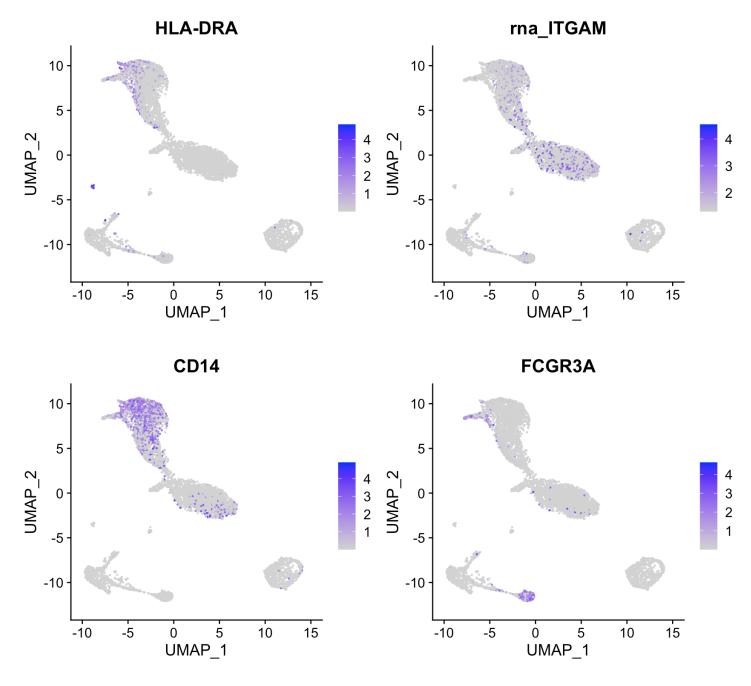




Cluster 9 is activated macrophage:



Cluster 6, Monocytes (markers HLA-DR+ CD11b+ or CD14+ and CD16+):



Unclear what cluster 13 is based on the markers above...very few cells, no need to annotate.

