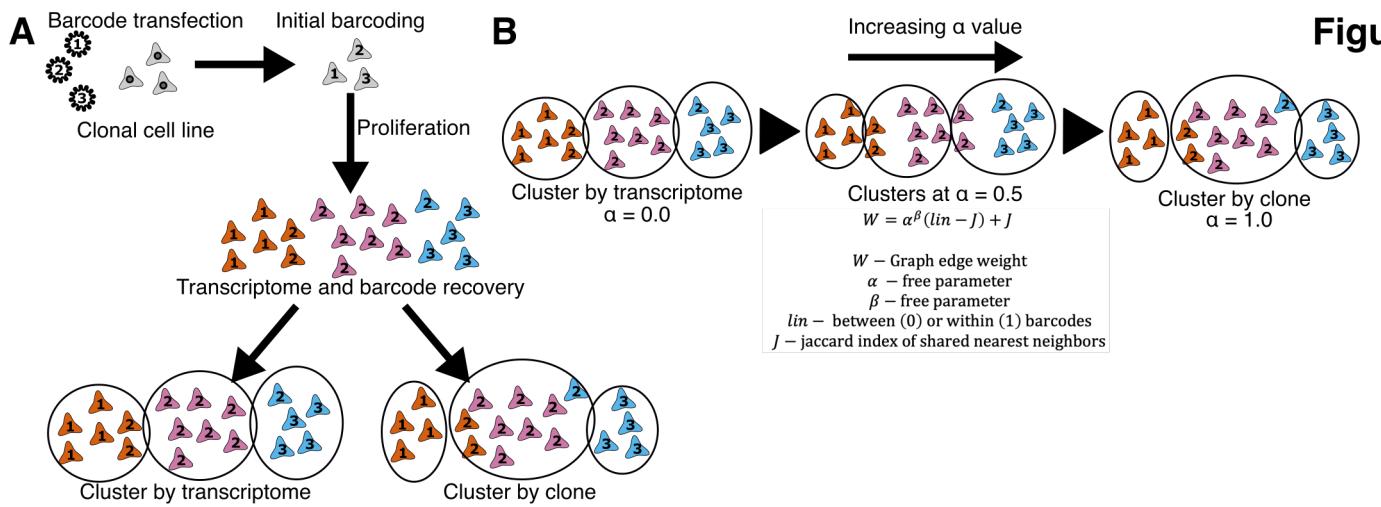
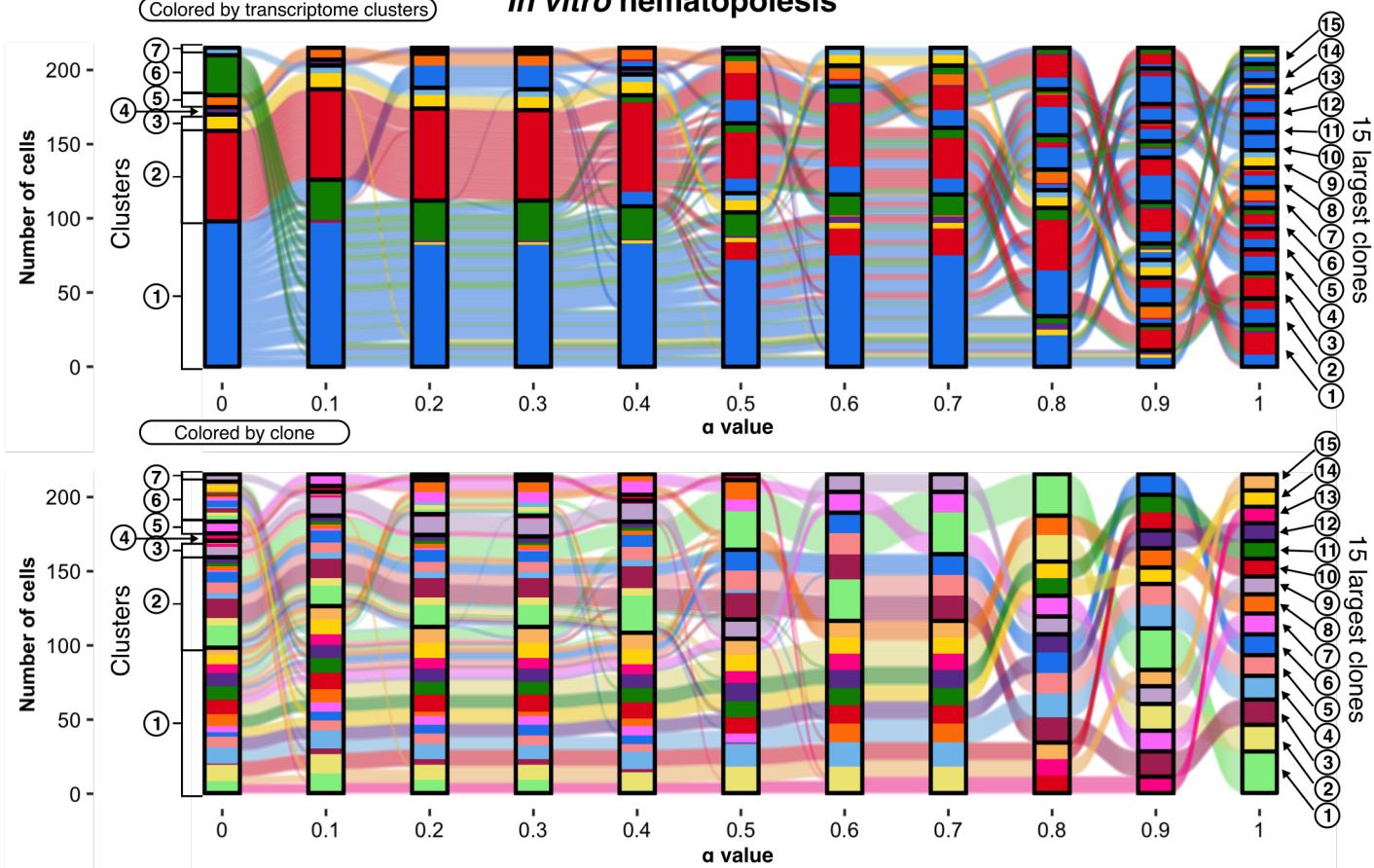


**Figure 1**



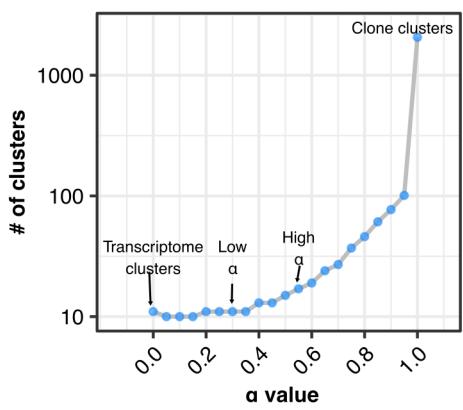
**C**

Weinreb et al. (2020)  
*In vitro* hematopoiesis

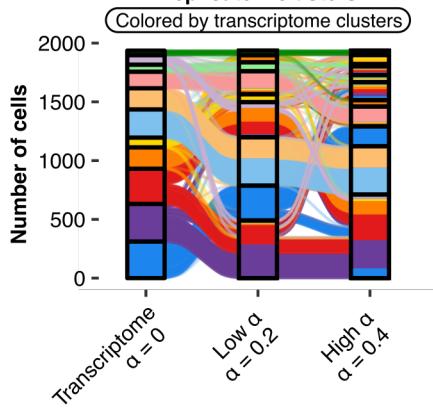


**D**

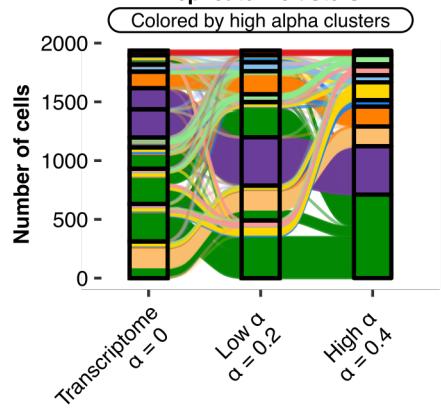
High dose BRAF inhibitor  
 Replicate 1



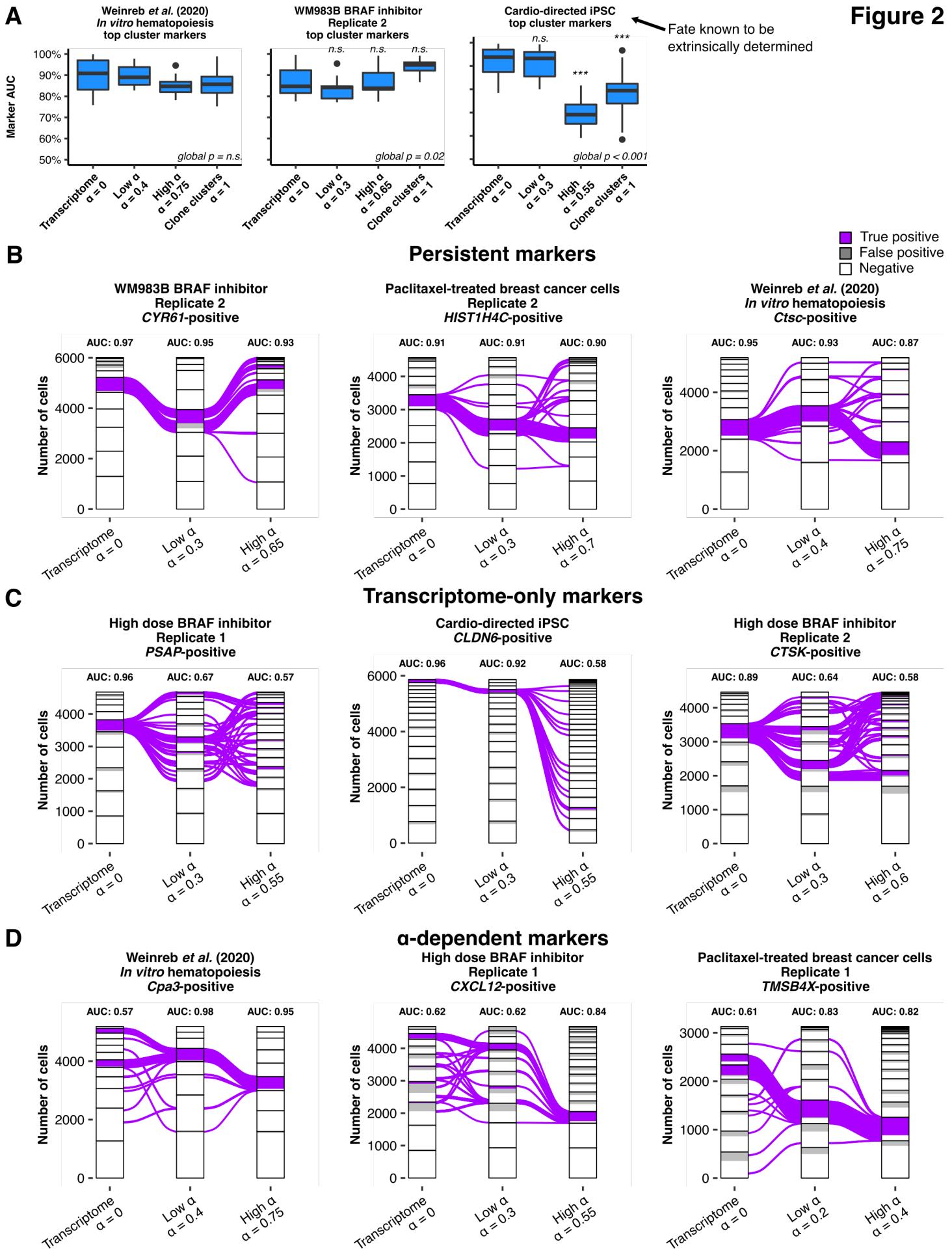
Paclitaxel-treated breast cancer cells  
 Replicate 1 clusters



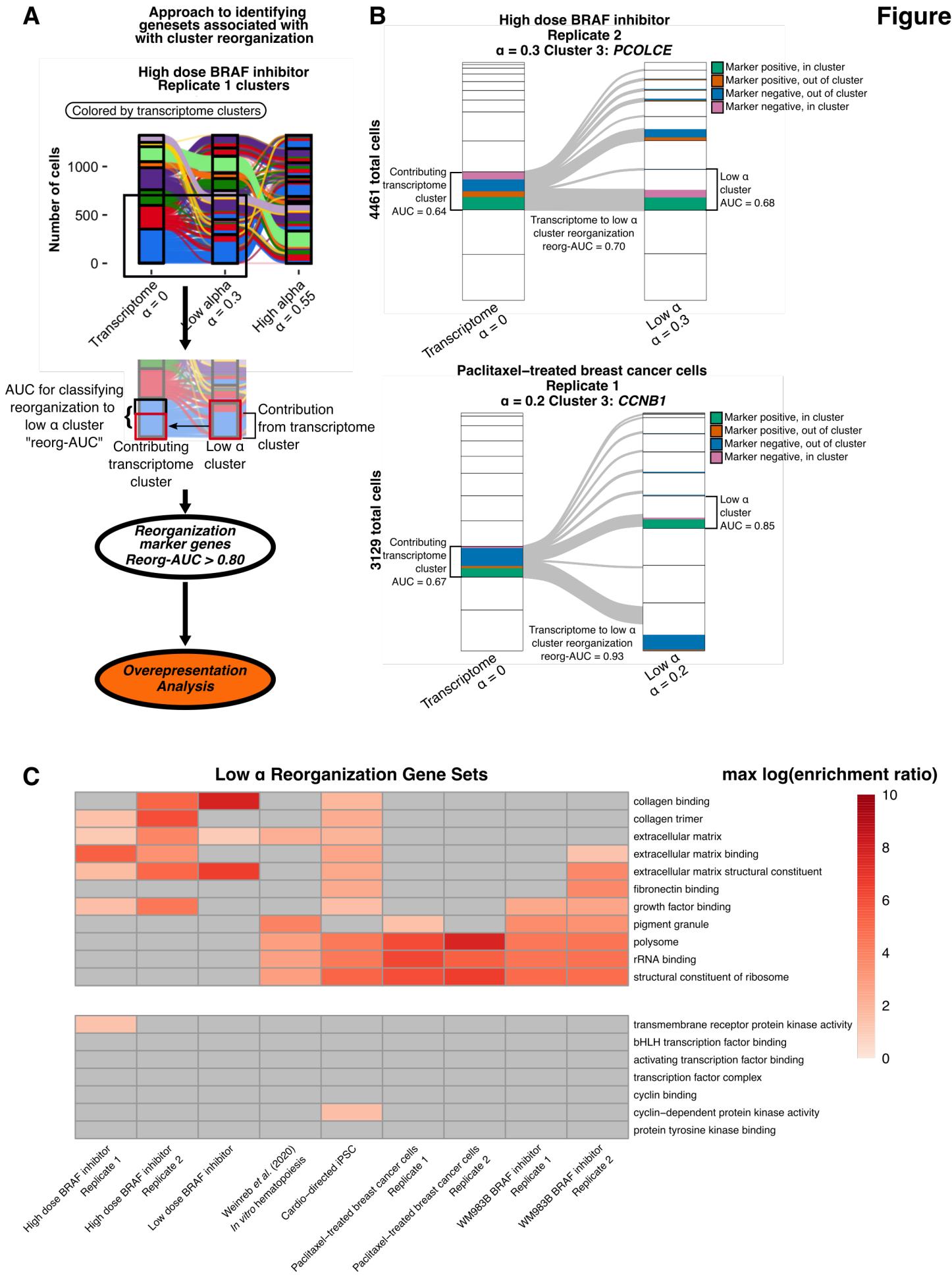
Paclitaxel-treated breast cancer cells  
 Replicate 1 clusters

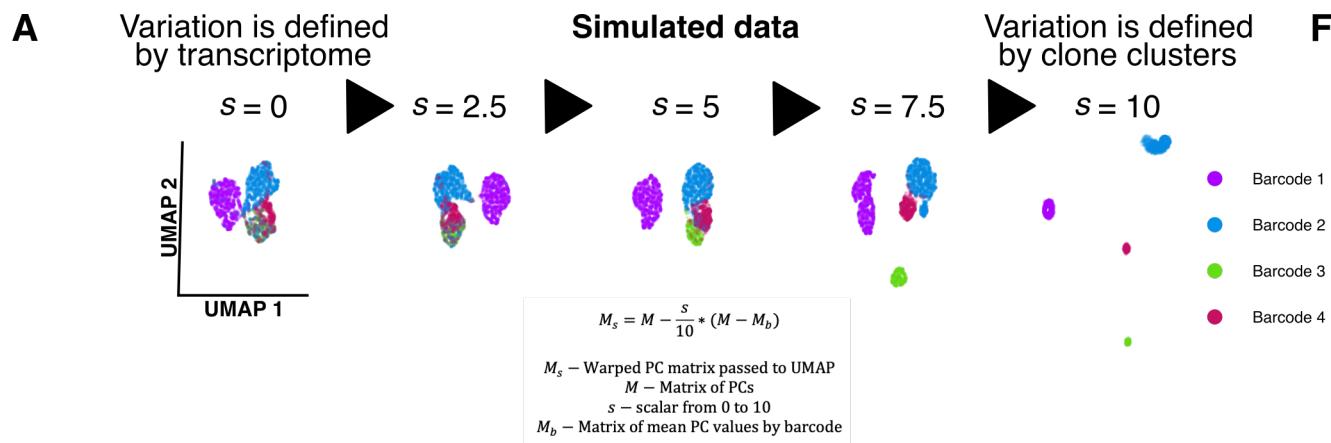


**Figure 2**



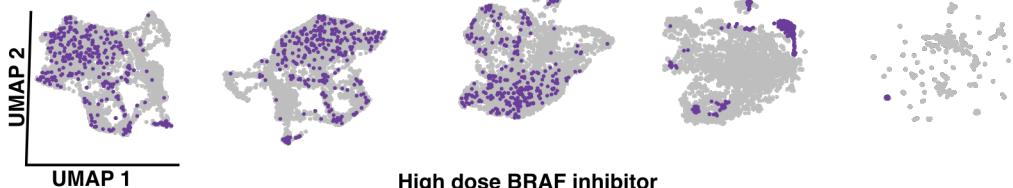
**Figure 3**



**Figure 4**

**B**  $s = 0$   $s = 2.5$   $s = 5$   $s = 7.5$   $s = 10$

**Cardio-directed iPSC**



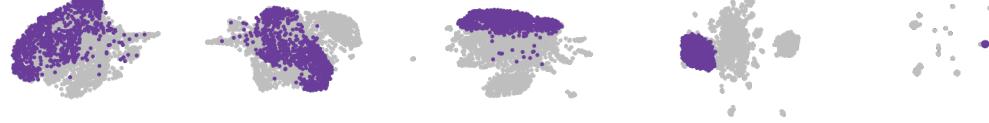
**High dose BRAF inhibitor  
Replicate 1**



**Weinreb et al. (2020)  
*In vitro* hematopoiesis**

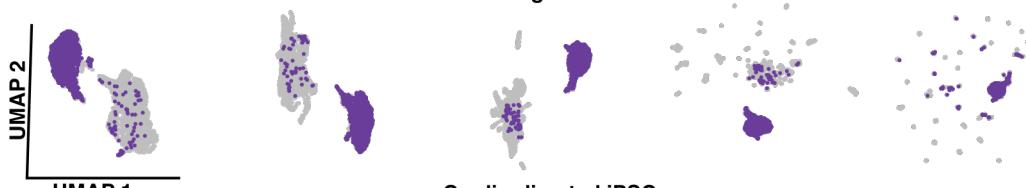


**Paclitaxel-treated breast cancer cells  
Replicate 1**



**C**  $s = 0$   $s = 2.5$   $s = 5$   $s = 7.5$   $s = 10$

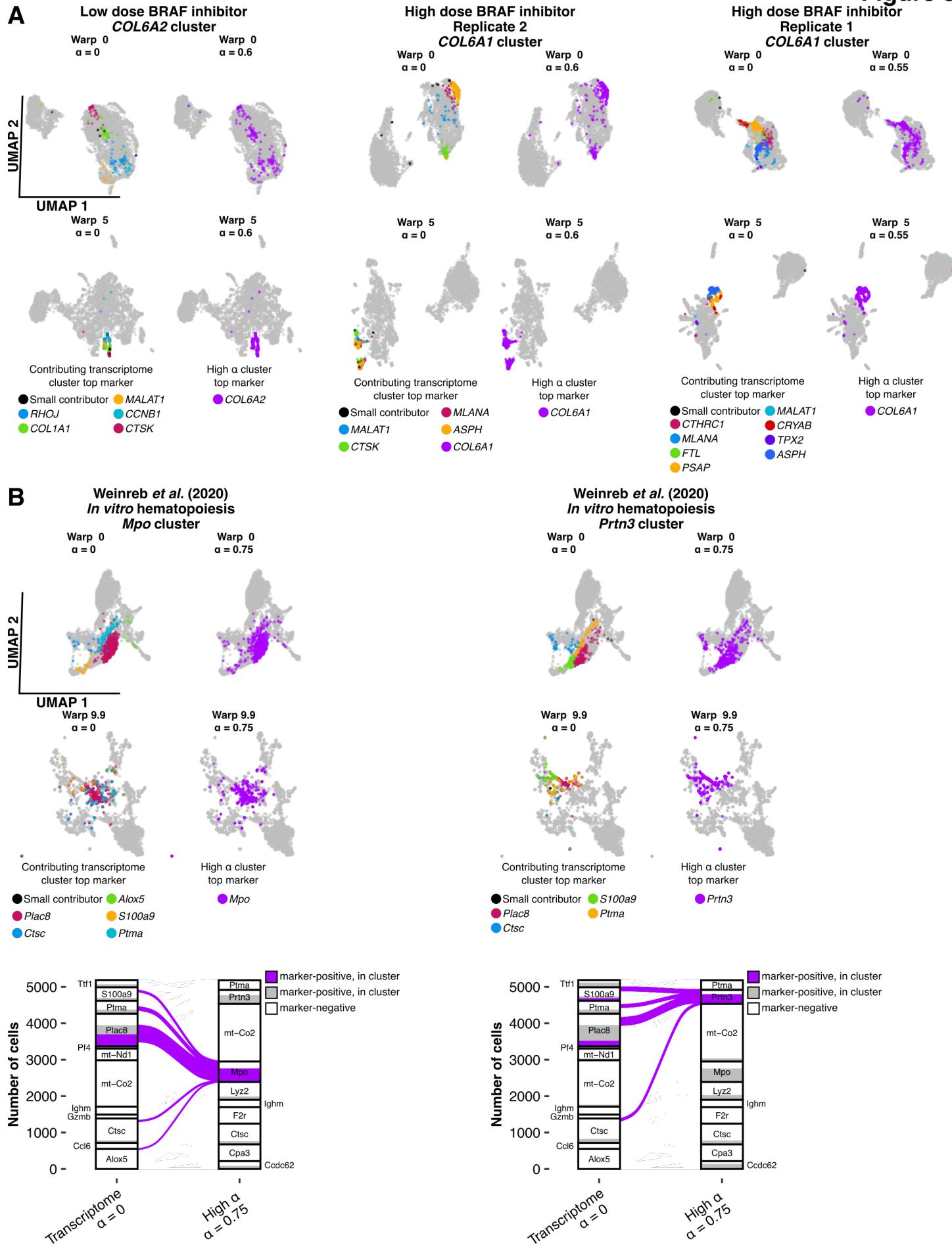
**High dose BRAF inhibitor  
Replicate 1  
Singlets**



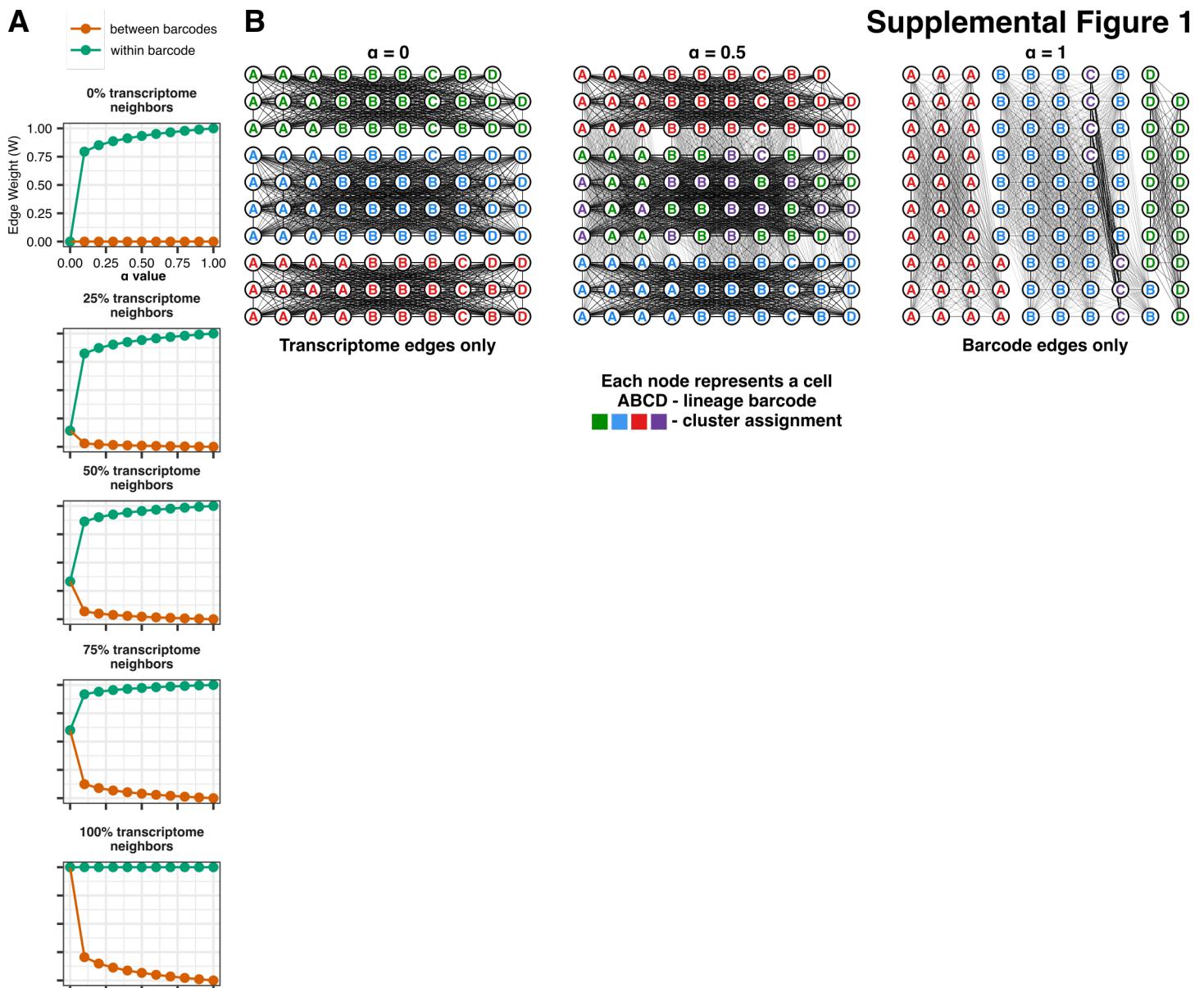
**Cardio-directed iPSC  
Singlets**



**Figure 5**

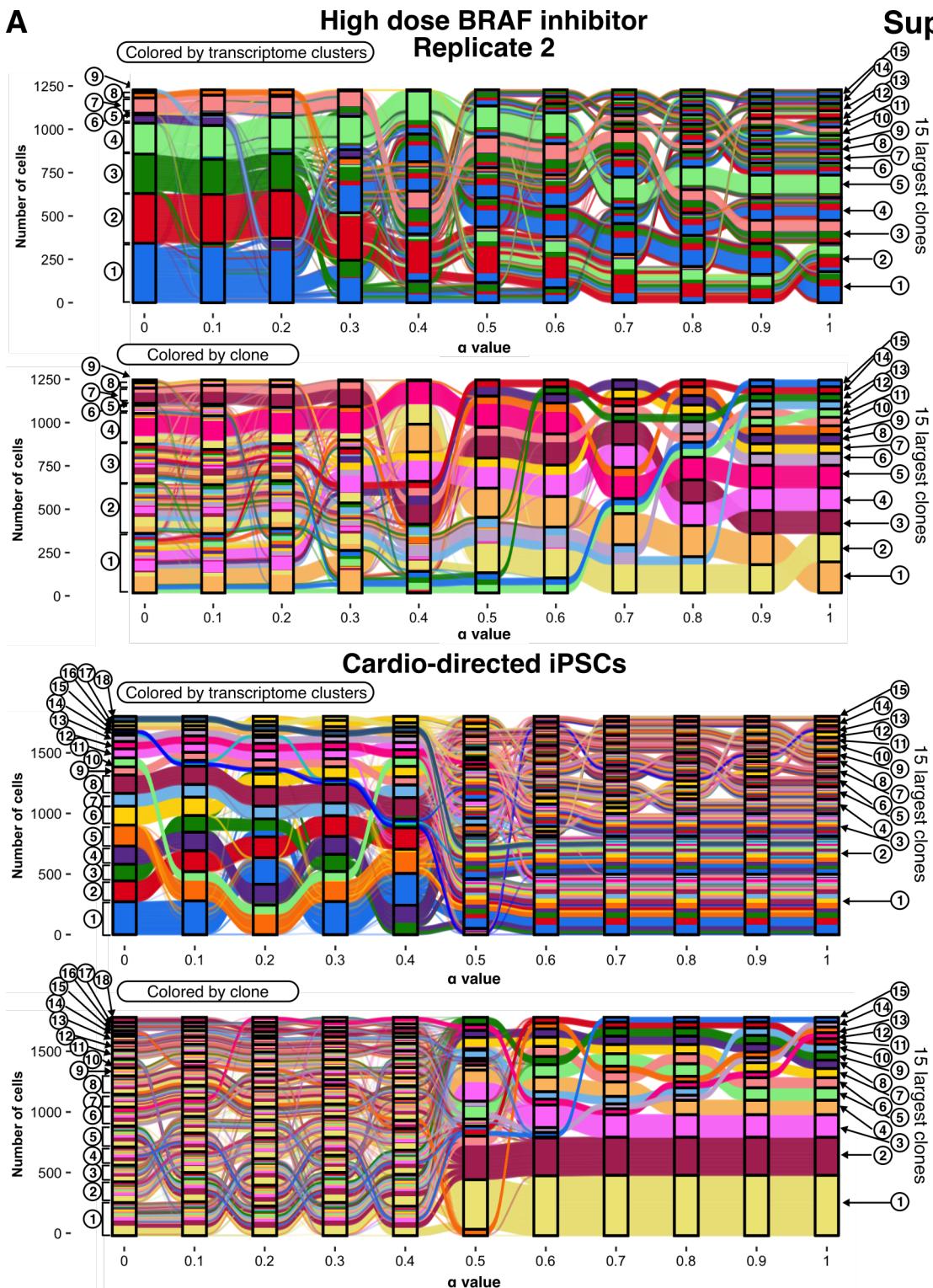


## Supplemental Figure 1

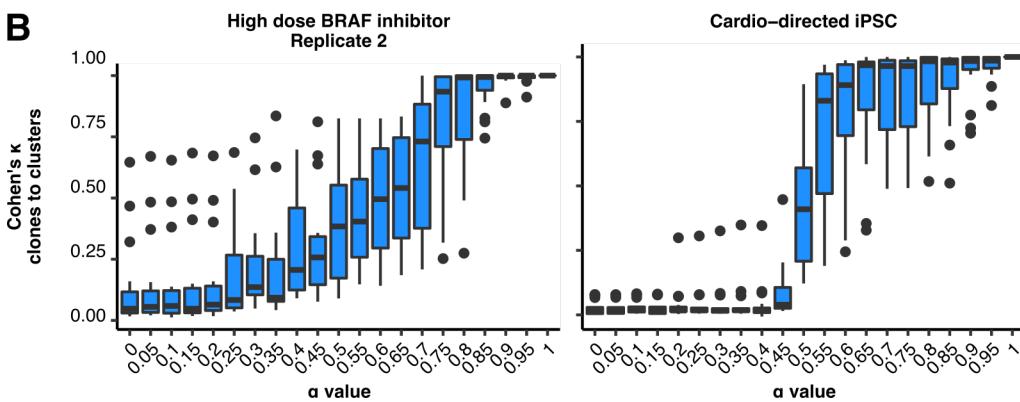


## Supplemental Figure 2

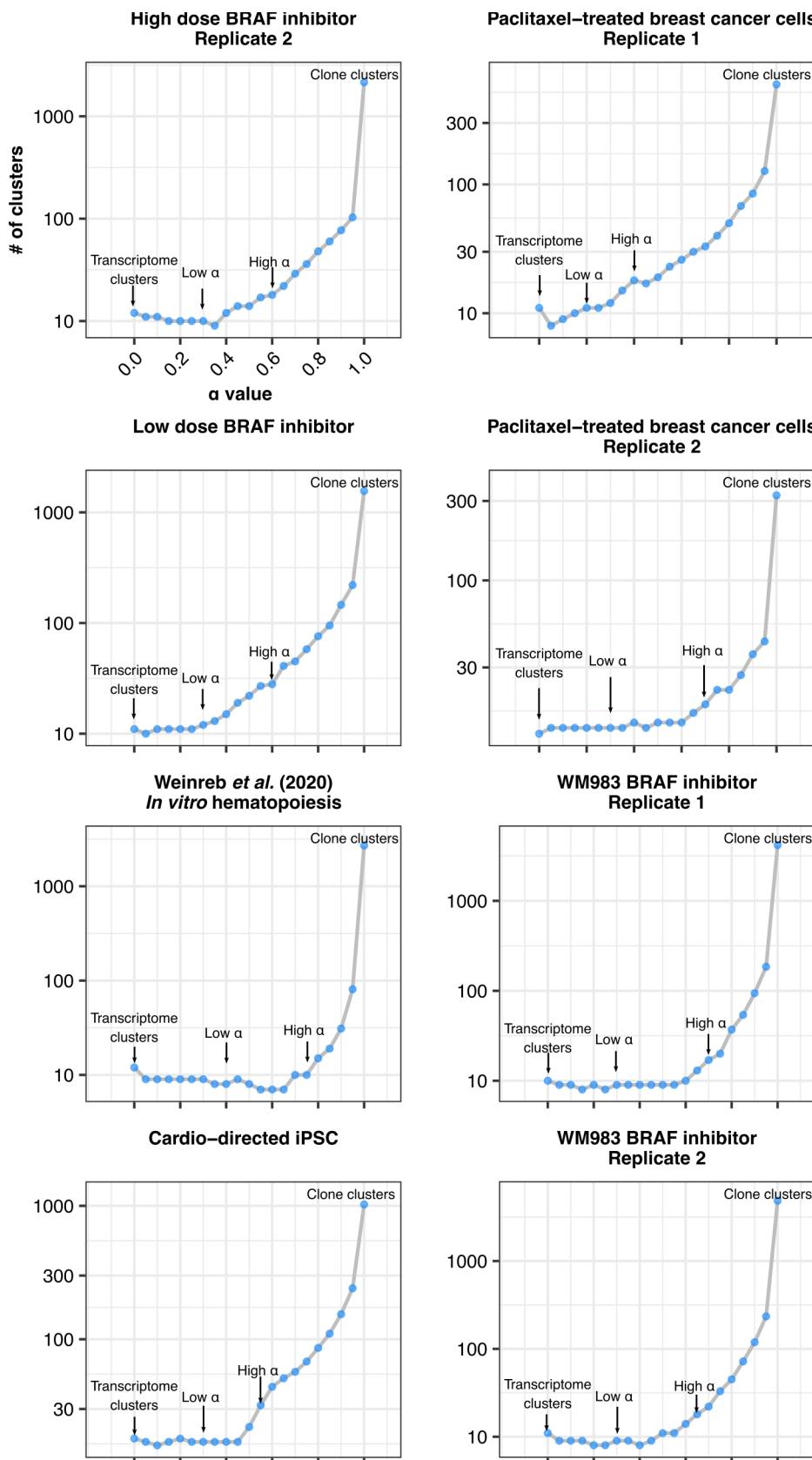
**A**



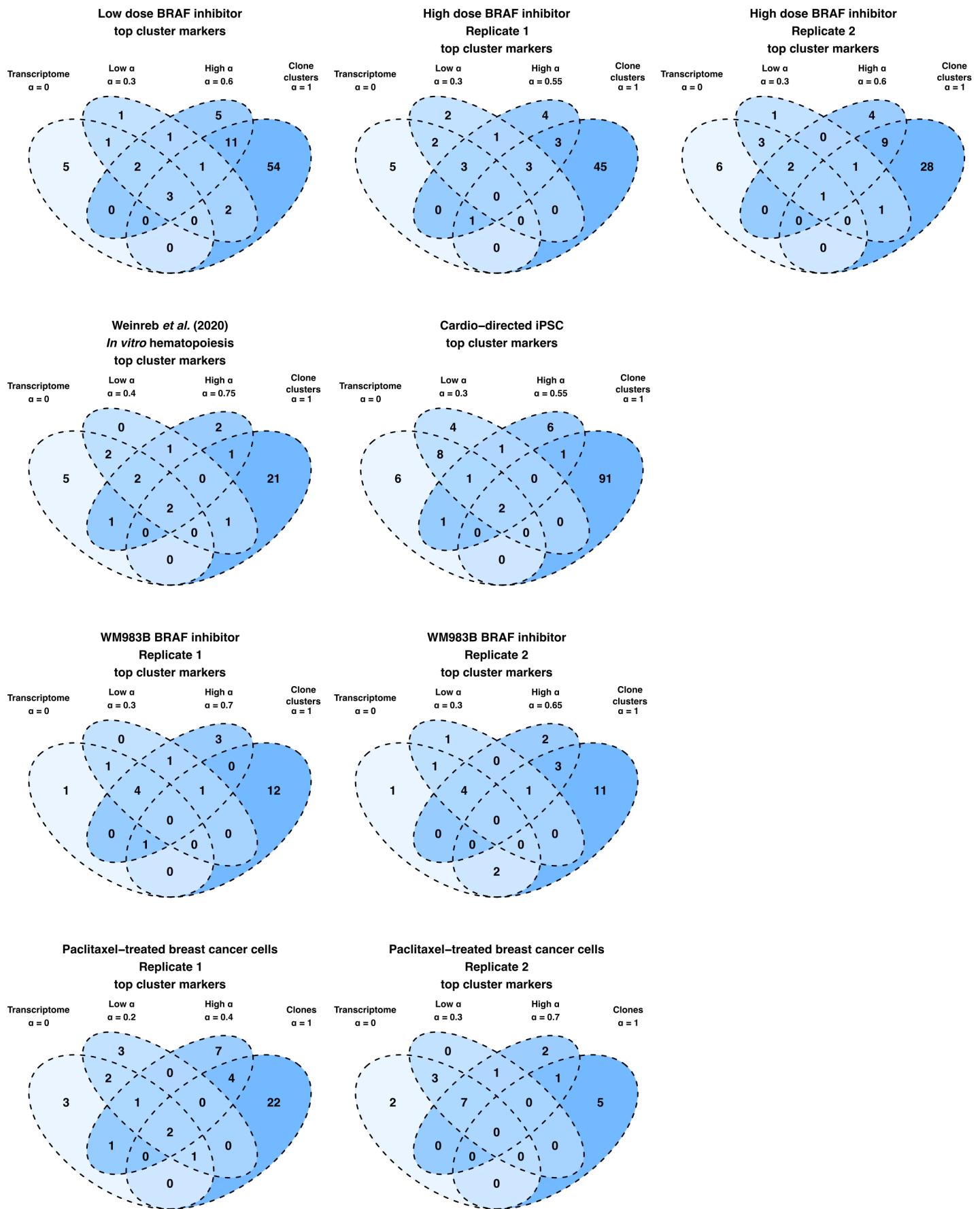
**B**



### Supplemental Figure 3

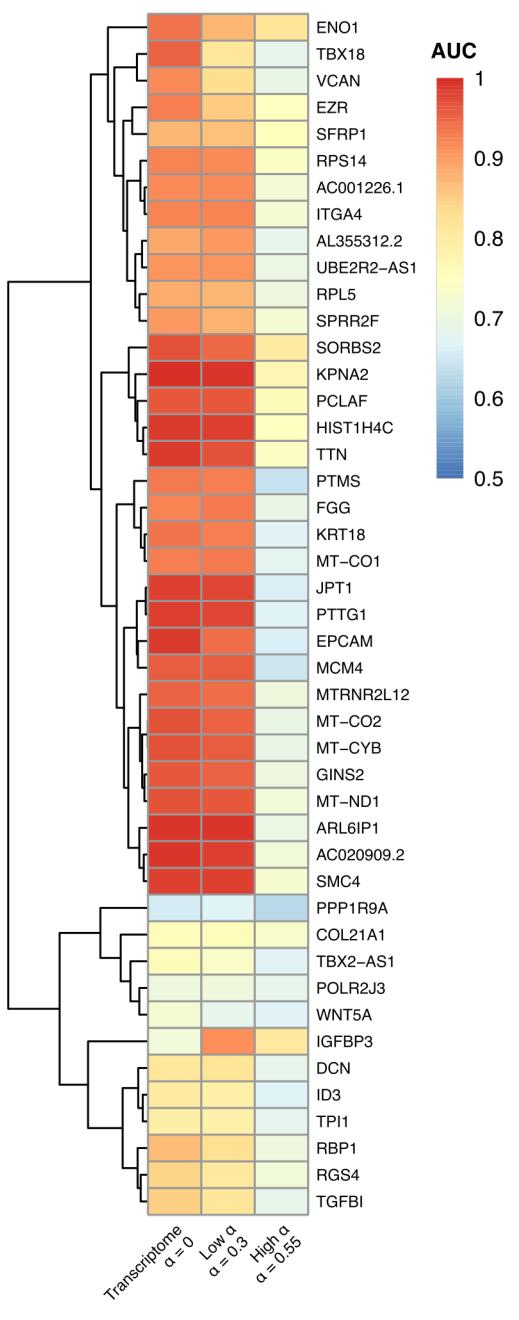


## Supplemental Figure 4



## Supplemental Figure 5

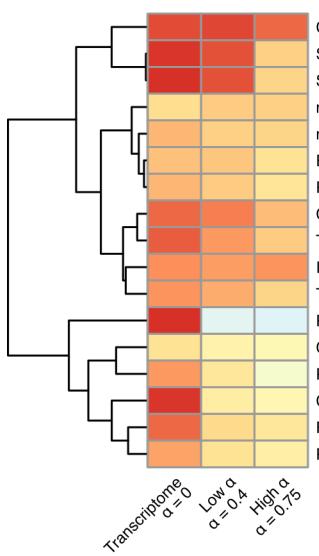
### Cardio-directed iPSC



A

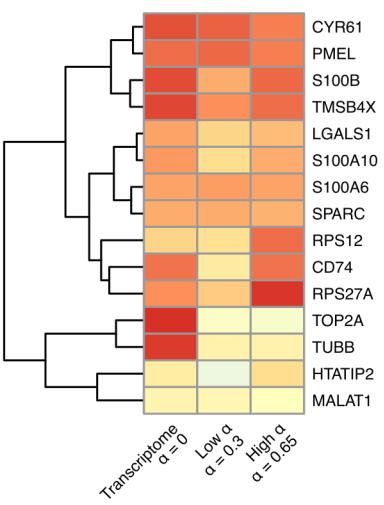
Weinreb et al. (2020)

In vitro hematopoiesis



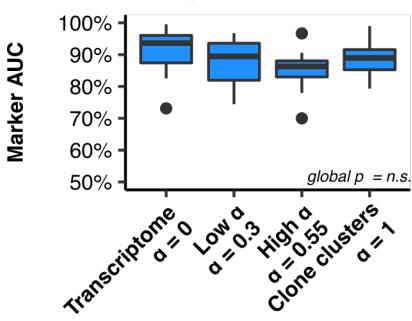
WM983B BRAF inhibitor

Replicate 2

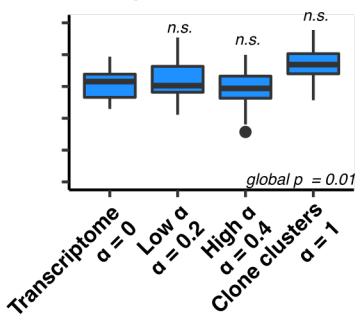


B

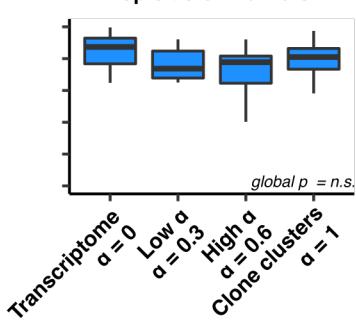
High dose BRAF inhibitor  
Replicate 1  
top cluster markers



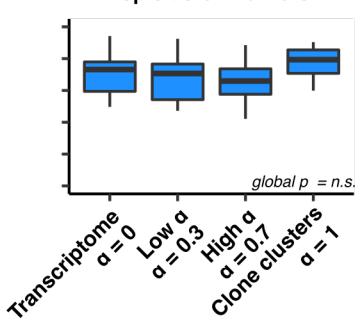
Paclitaxel-treated breast cancer cells  
Replicate 1  
top cluster markers



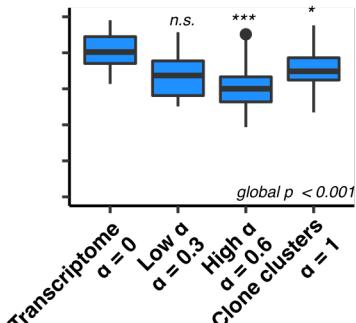
High dose BRAF inhibitor  
Replicate 2  
top cluster markers



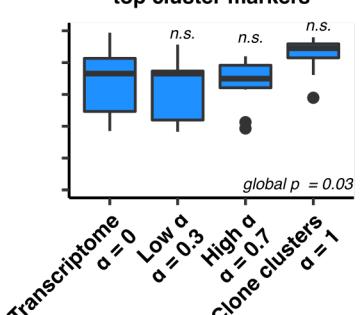
Paclitaxel-treated breast cancer cells  
Replicate 2  
top cluster markers

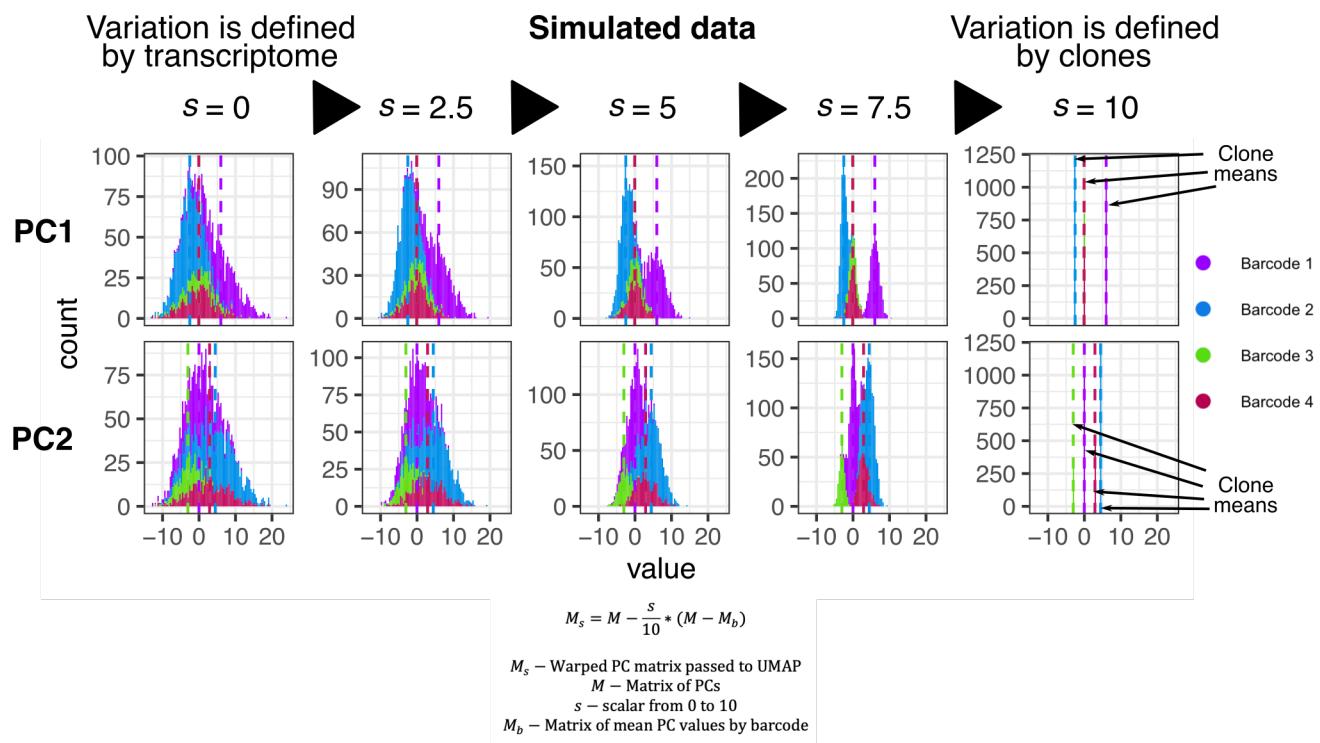


Low dose BRAF inhibitor  
top cluster markers



WM983B BRAF inhibitor  
Replicate 1  
top cluster markers



**A****Supplemental Figure 6****B**