

Figures : SPRUCE - Single-cell Pairwise Relationships Untangled by Composite ETM

Park Lab

12:43:33 PM, Jun 28, 2022

Cell topic analysis

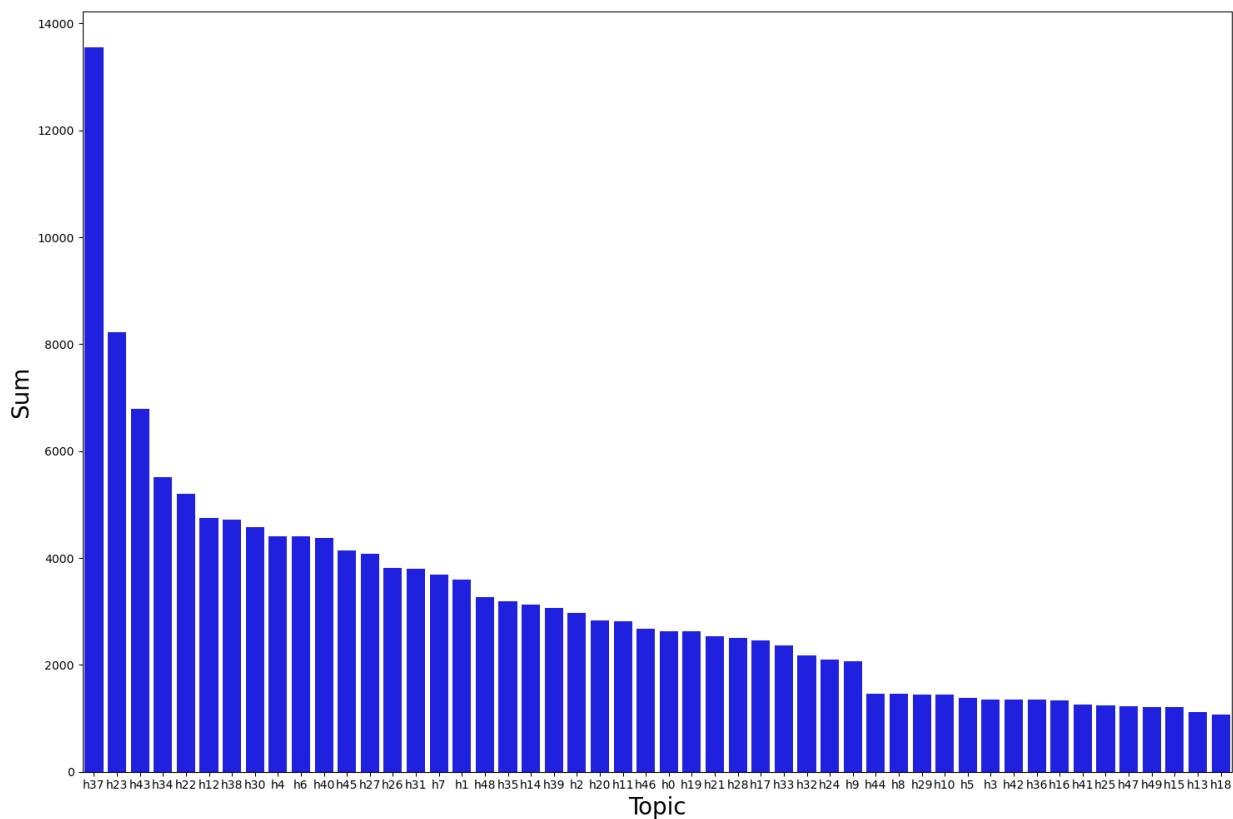


Figure 1: Topic sum

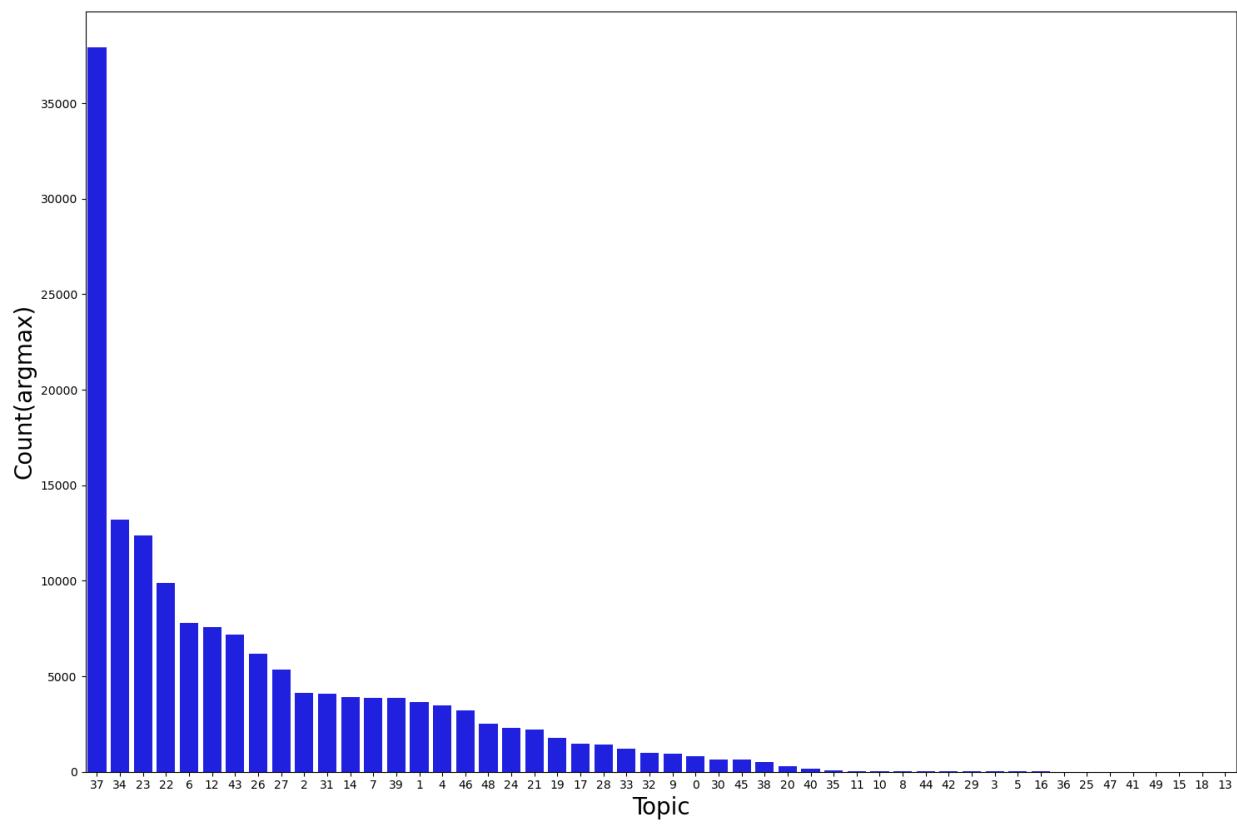


Figure 2: Topic argmax

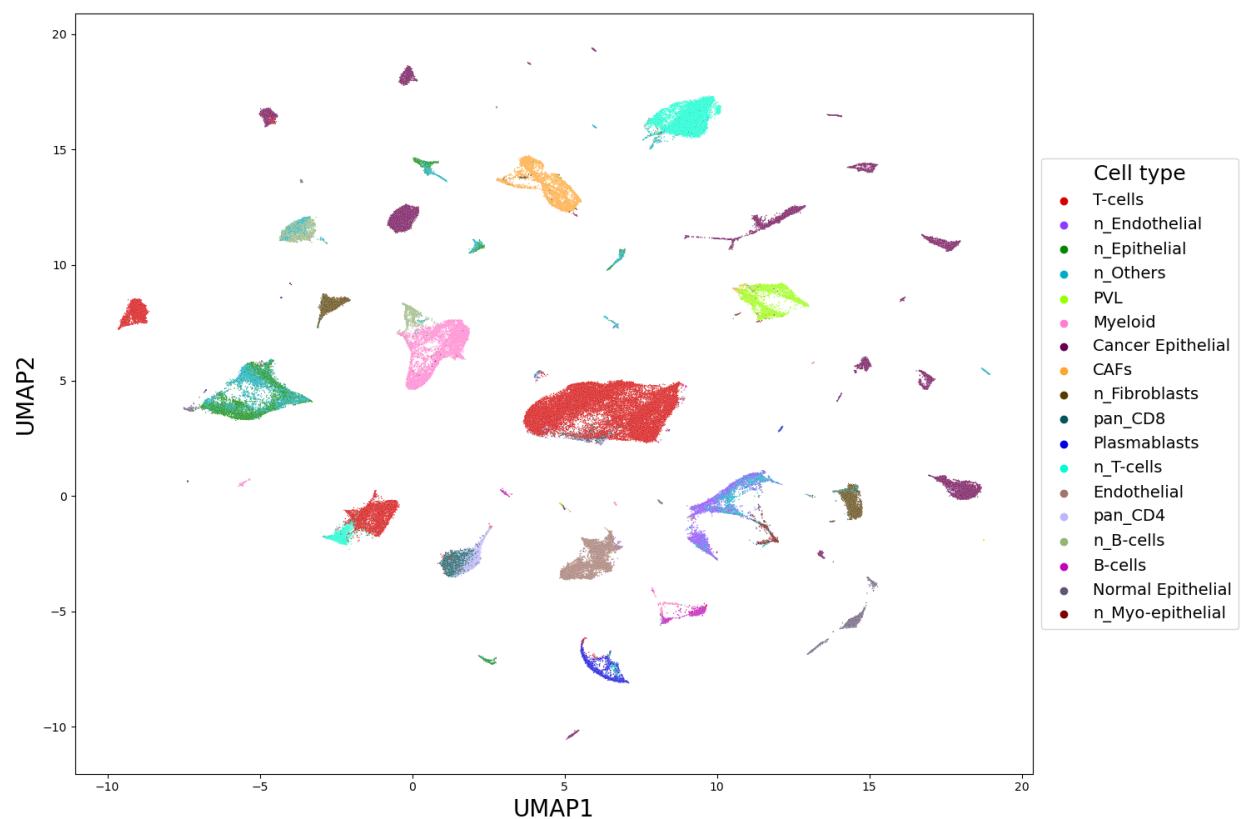


Figure 3: UMAP cell-type

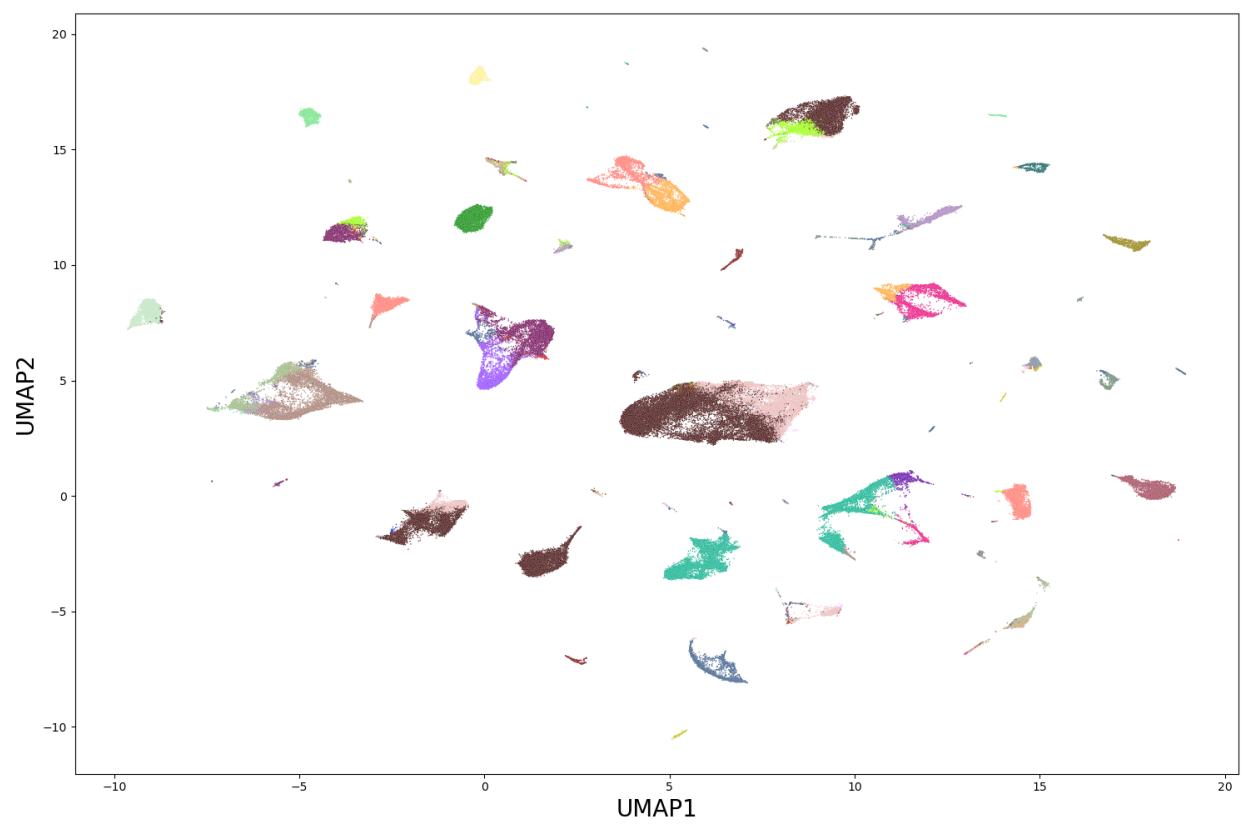


Figure 4: UMAP topic

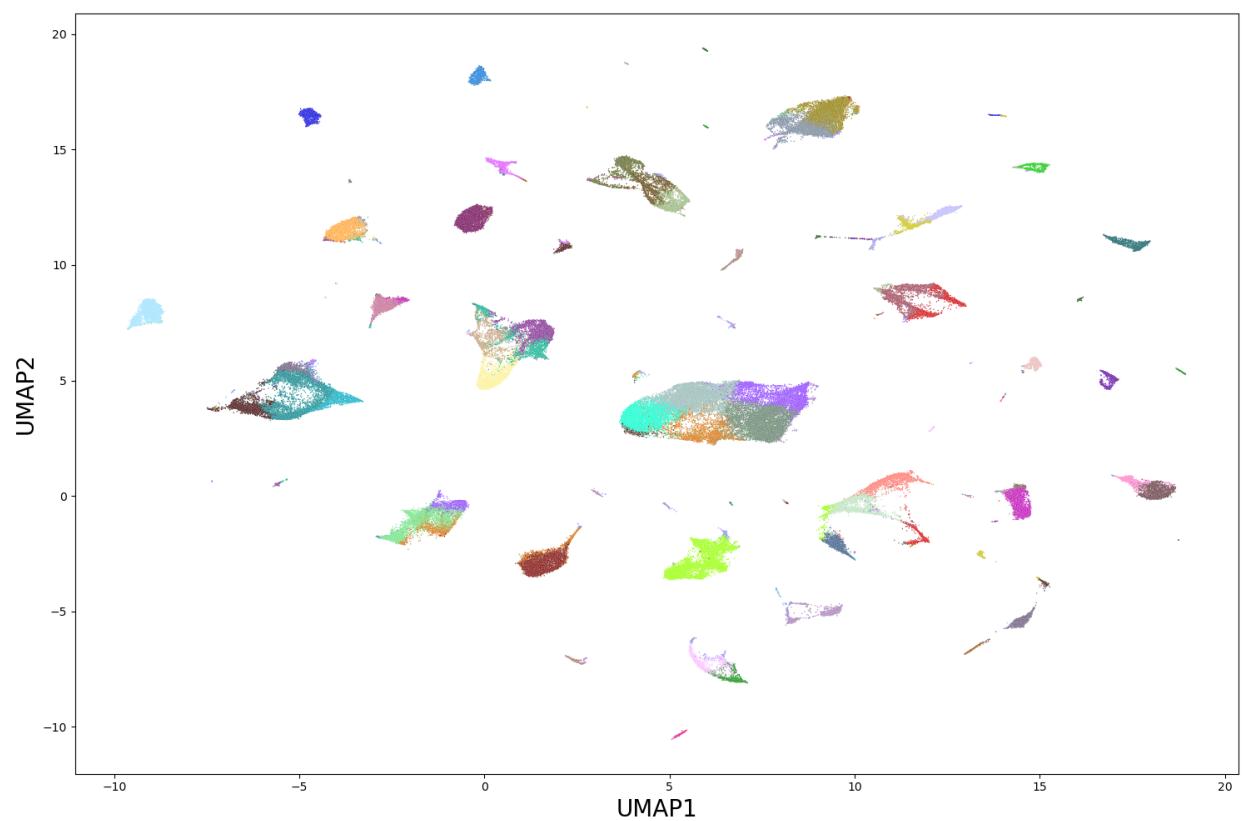


Figure 5: UMAP-kmeans ($k=50$)

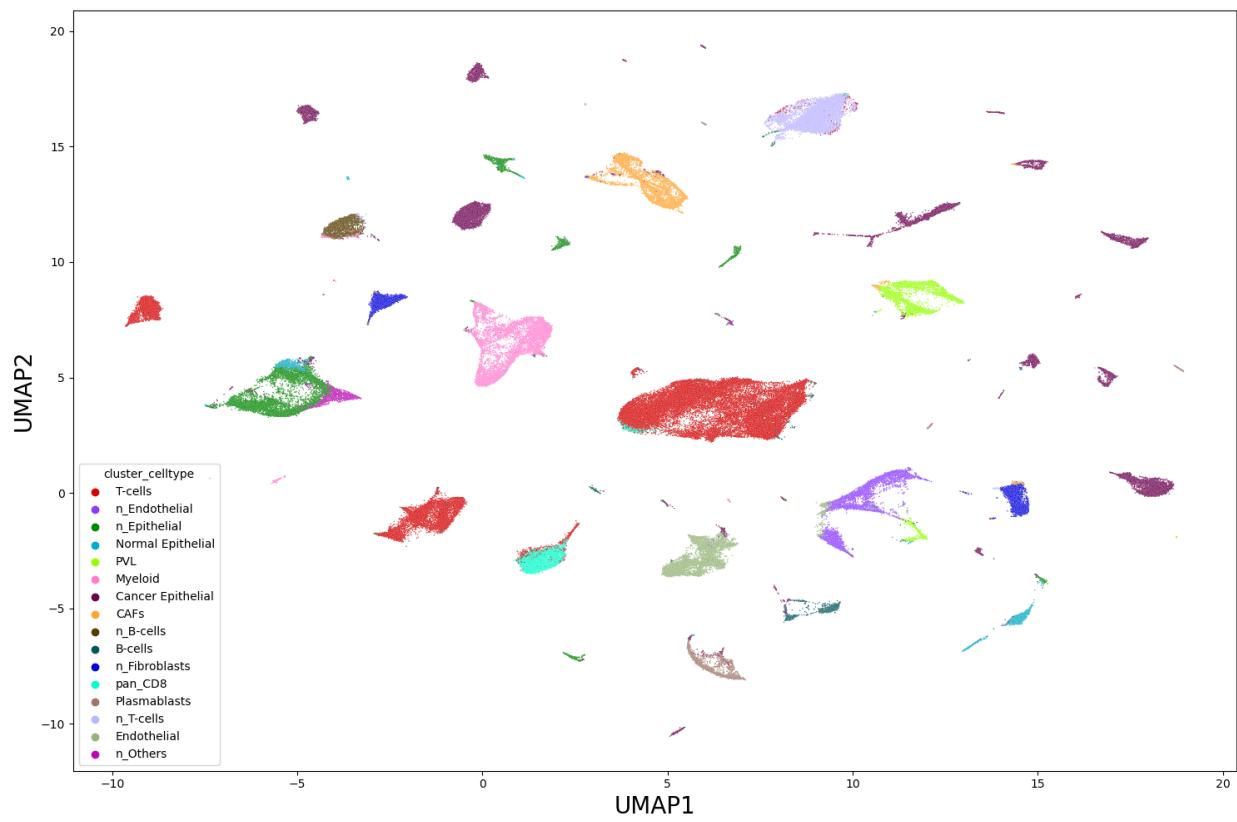


Figure 6: UMAP-kmeans($k=50$) cell-type

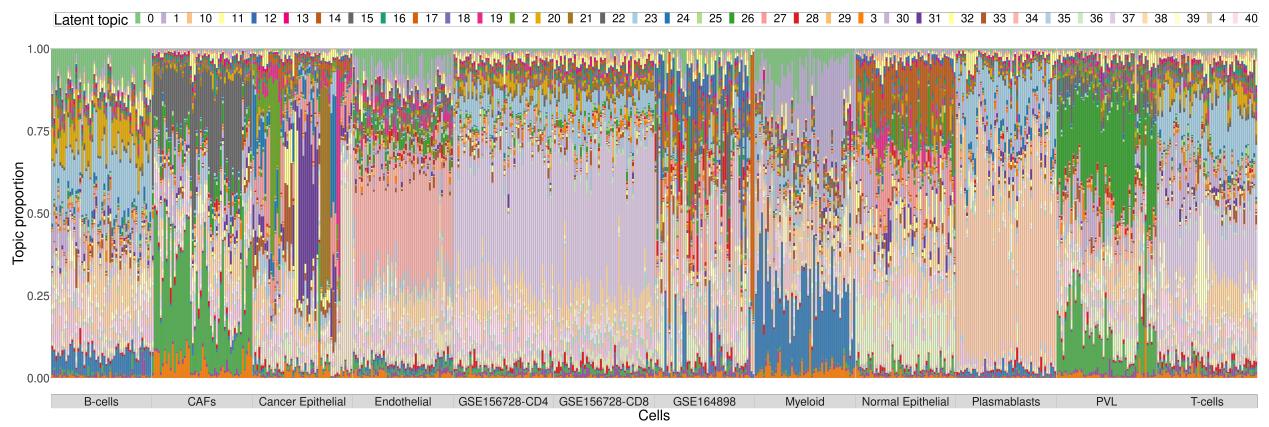


Figure 7: Structure plot cell-type

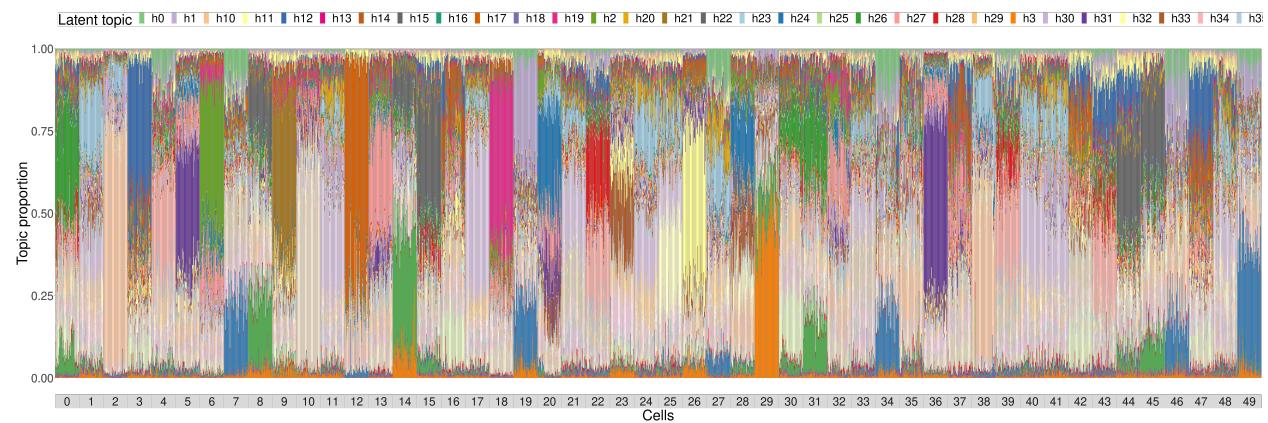


Figure 8: Structure plot kmeans cluster

Interaction topic analysis

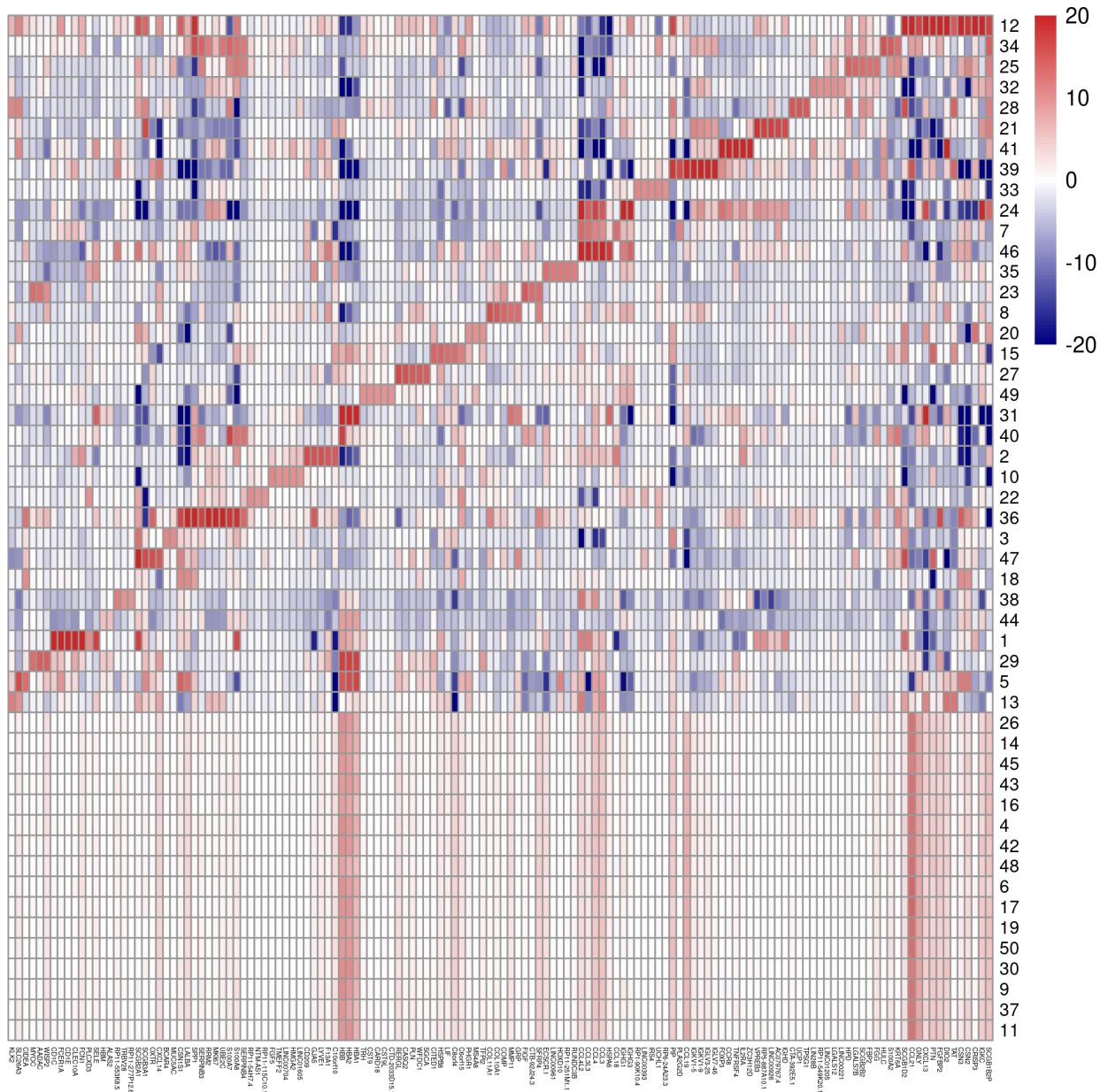


Figure 9: Beta - top genes

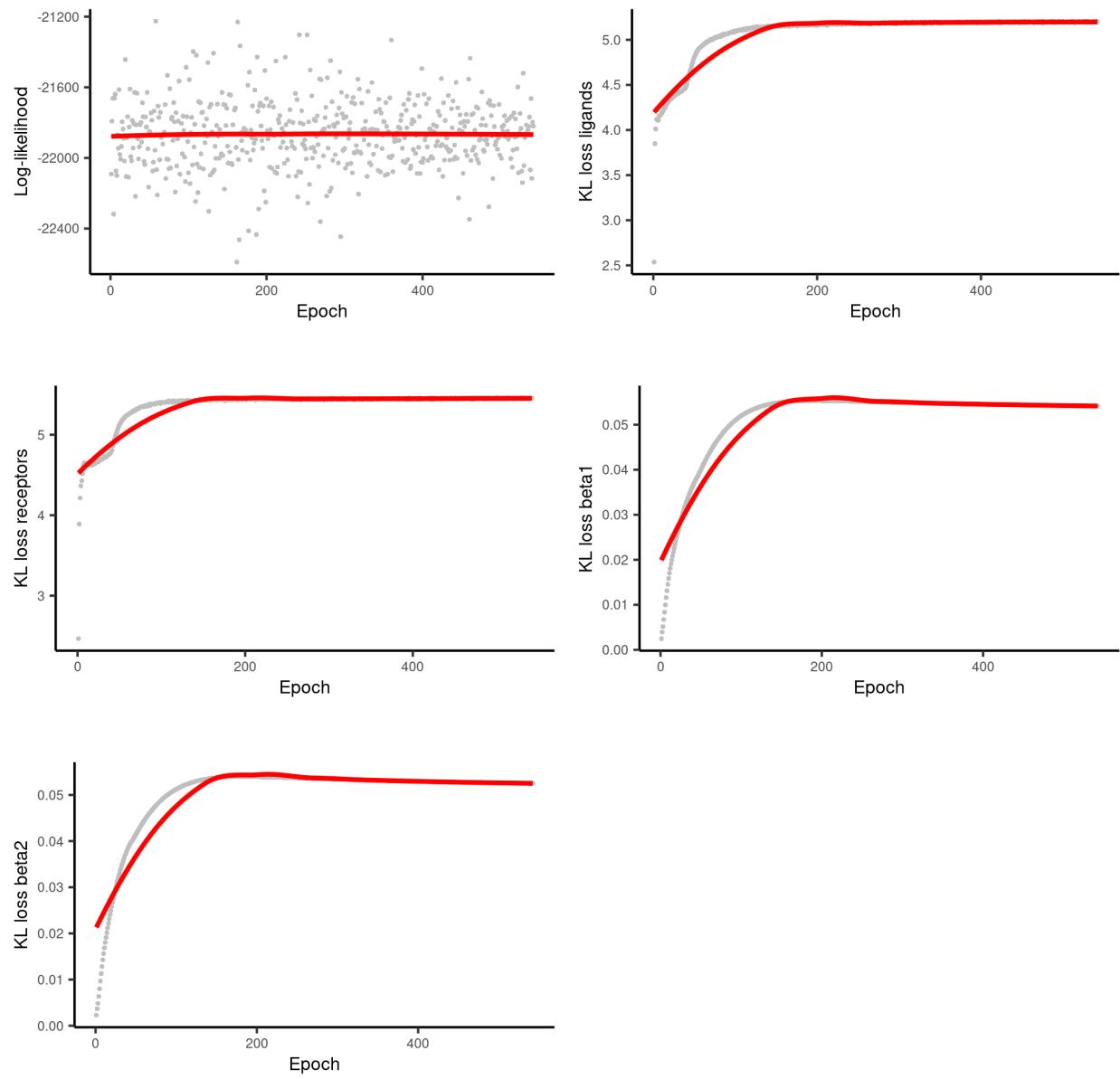


Figure 10: Loss plot

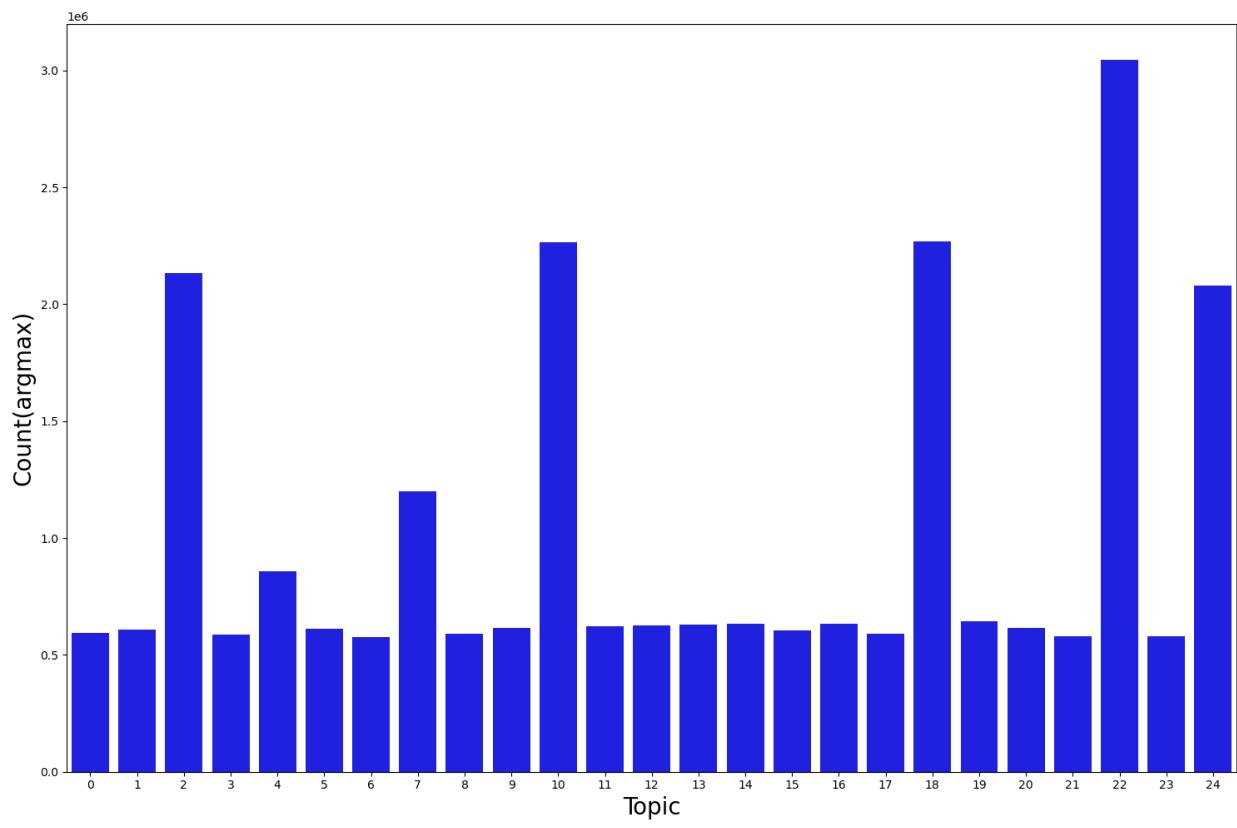


Figure 11: Interaction topic argmax

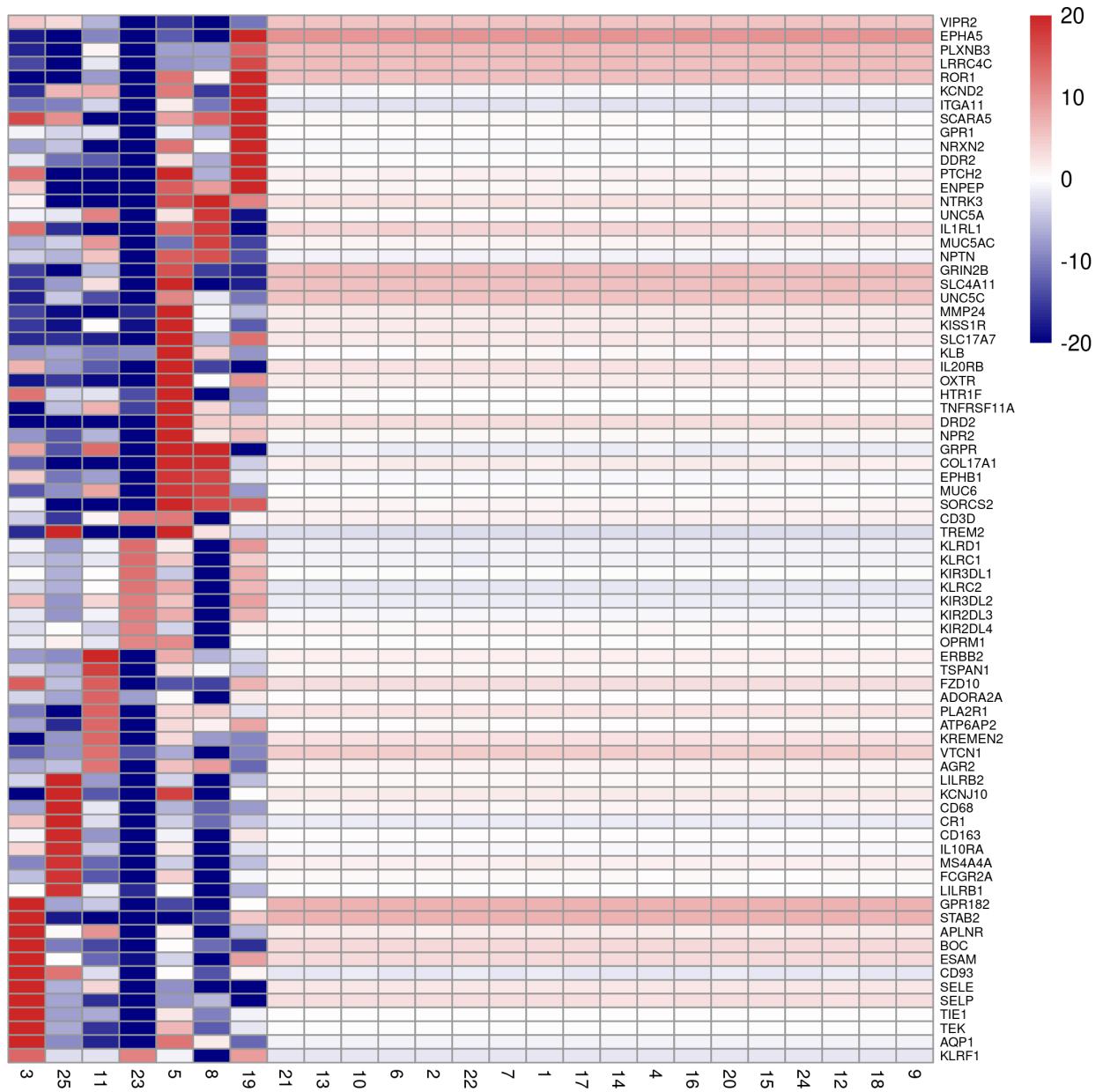


Figure 12: Beta - top receptor genes

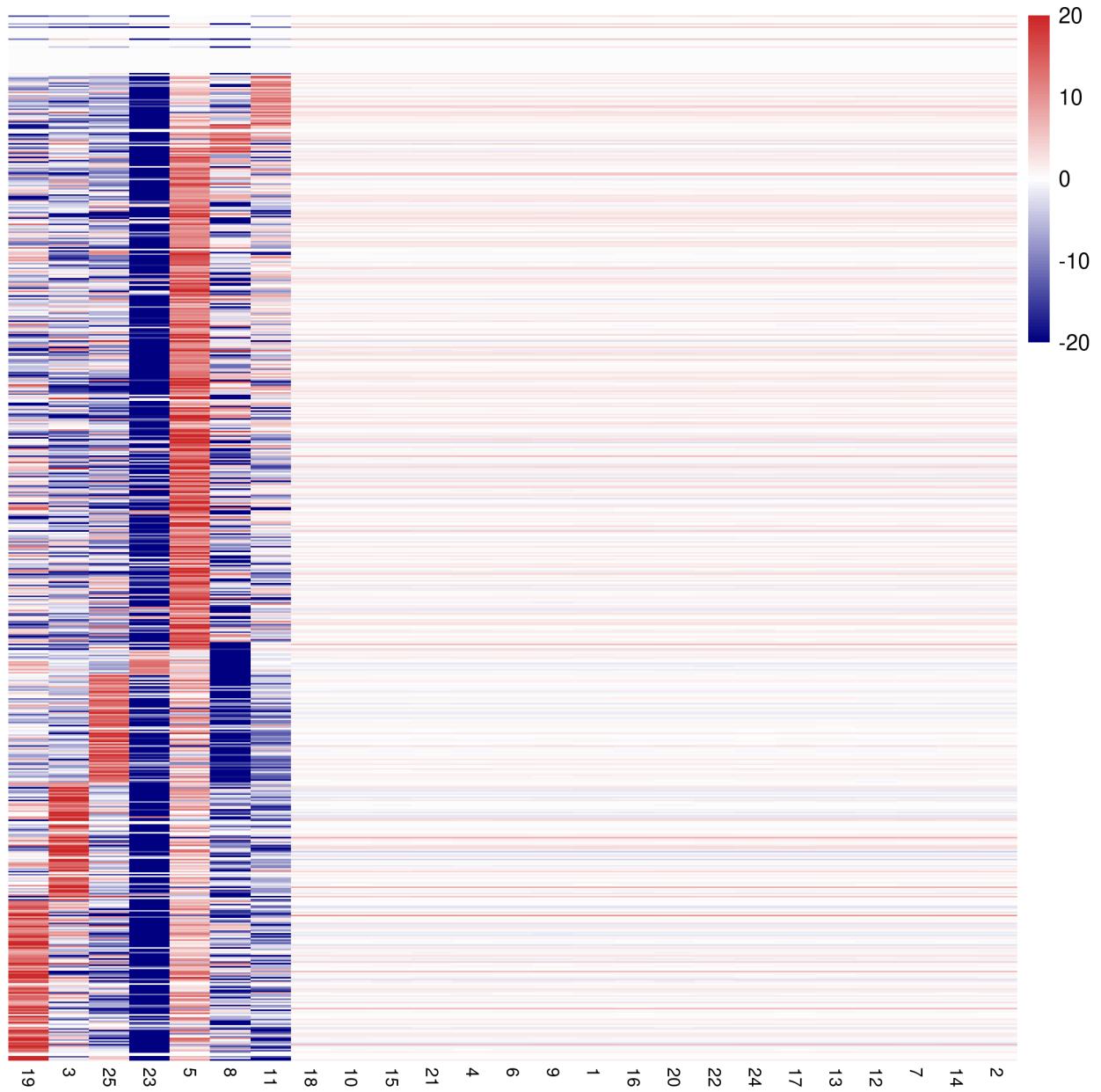


Figure 13: Beta - all receptor genes

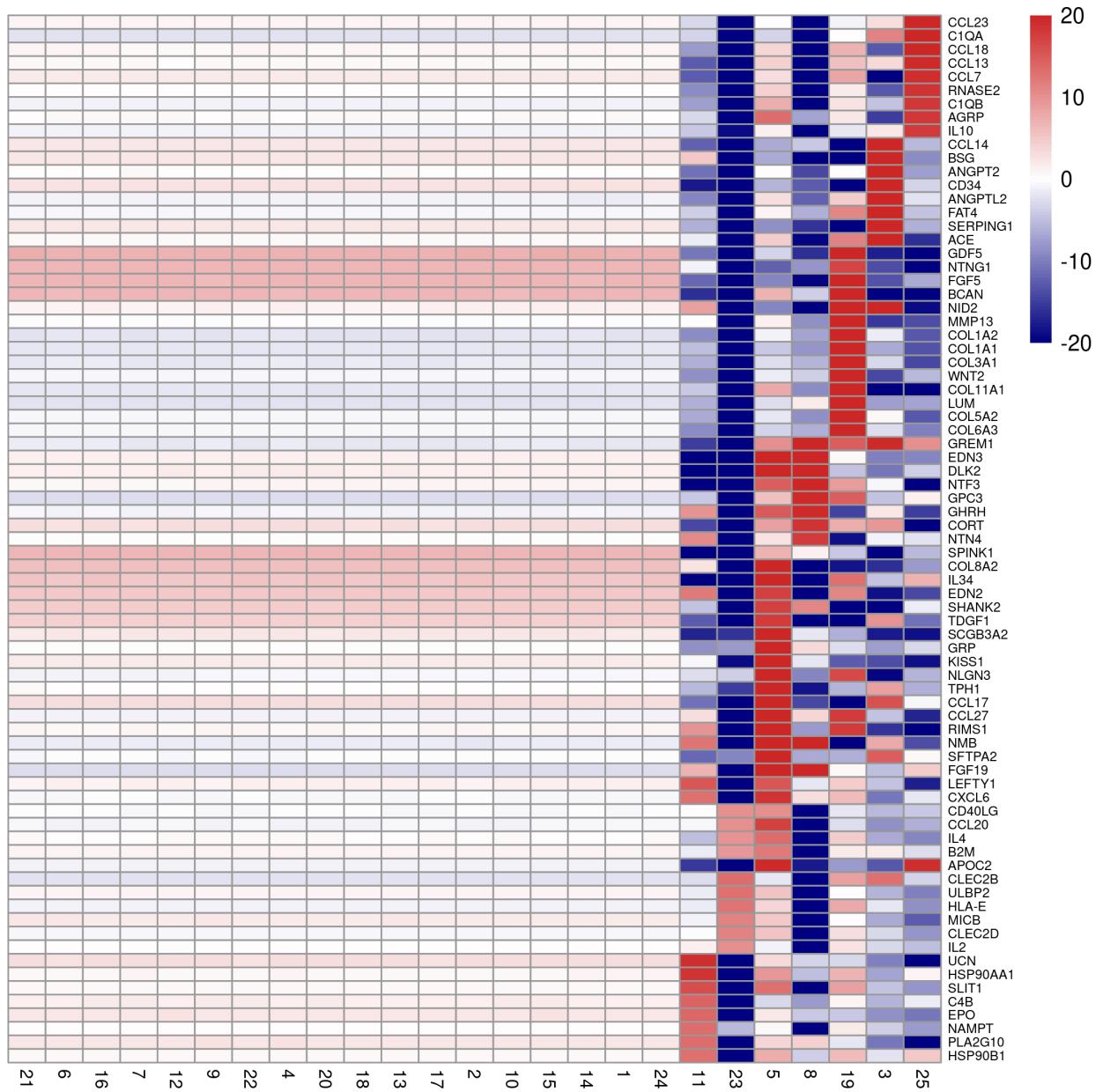


Figure 14: Beta - top ligand genes

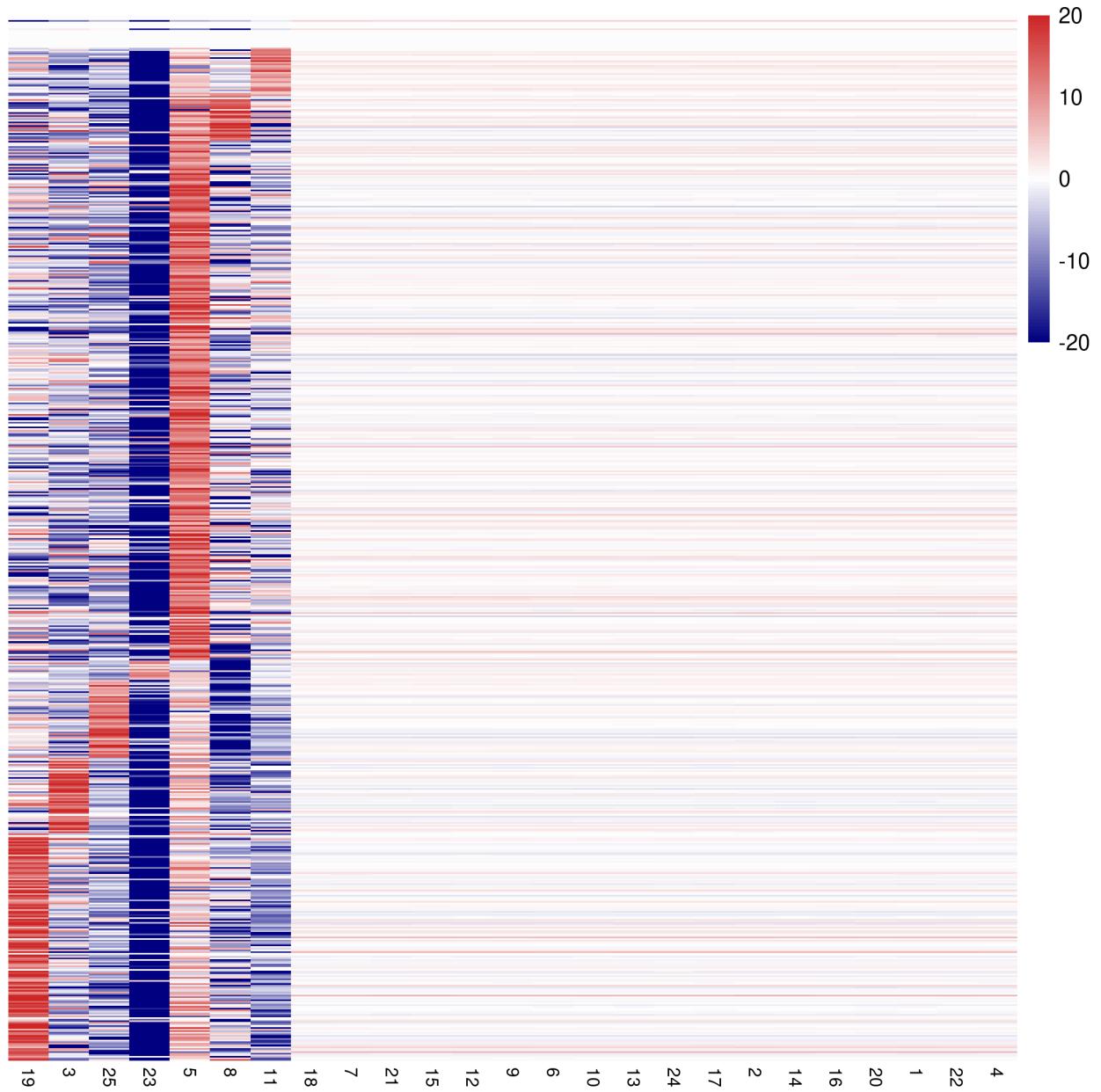


Figure 15: Beta - all ligand genes

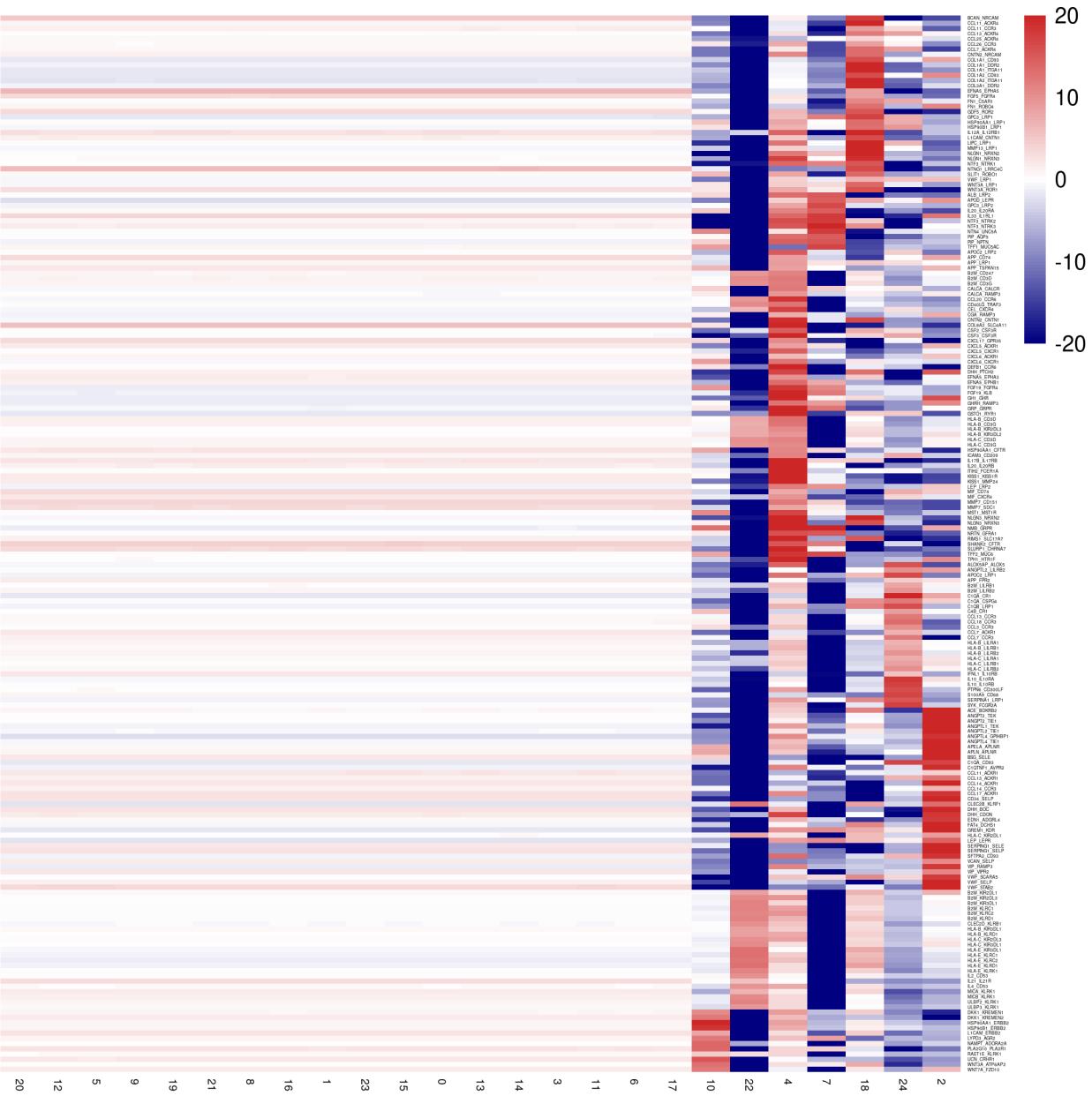


Figure 16: Beta - top lr pair genes

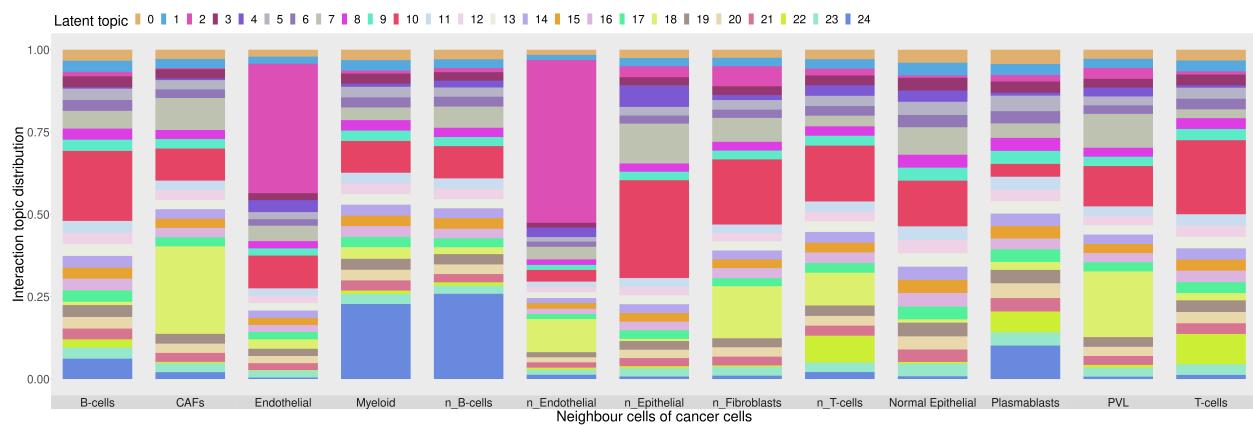


Figure 17: Cancer centric view - Cancer cells neighbour and interaction states

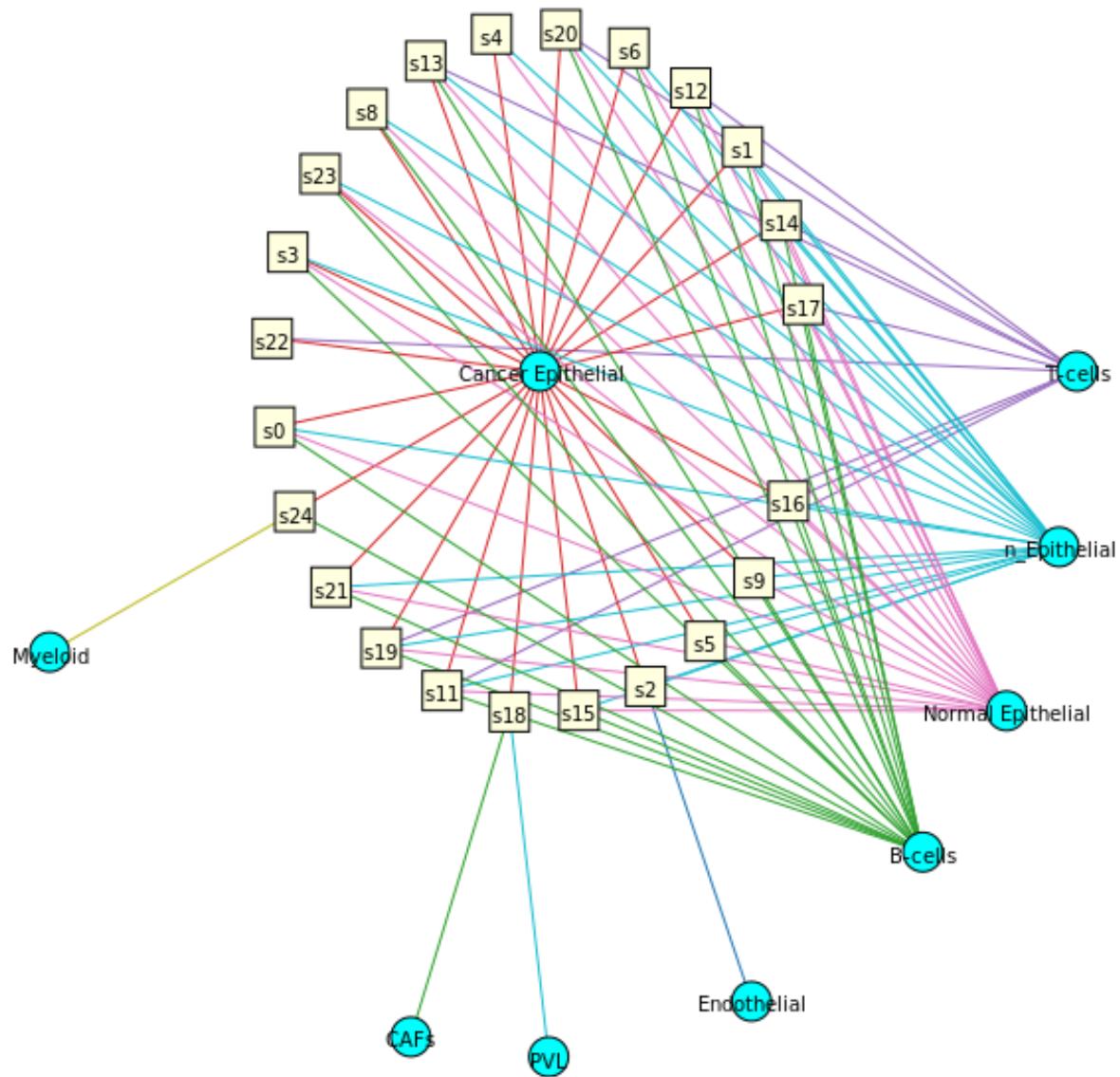


Figure 18: Network plot

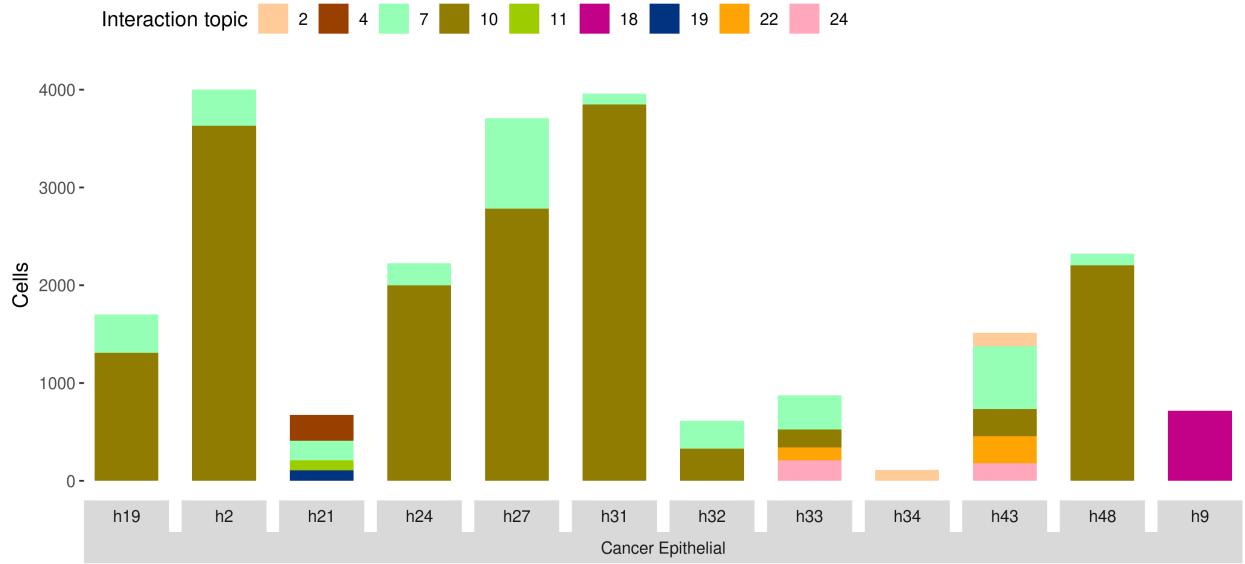


Figure 19: Model summary - cancer cells

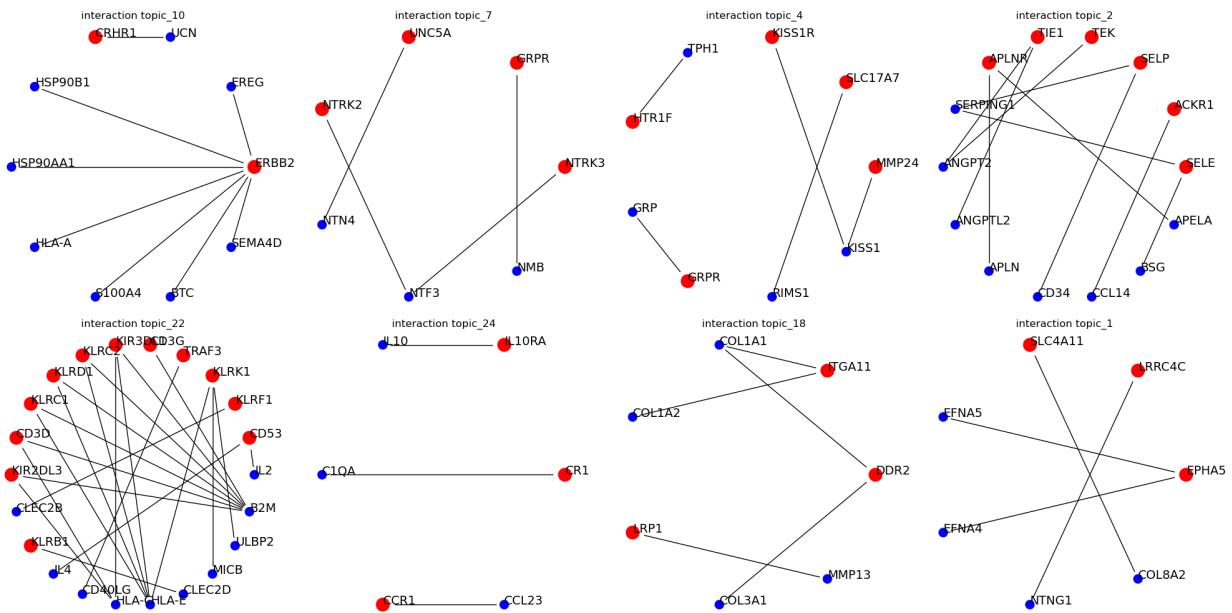


Figure 20: Interaction states and LR network

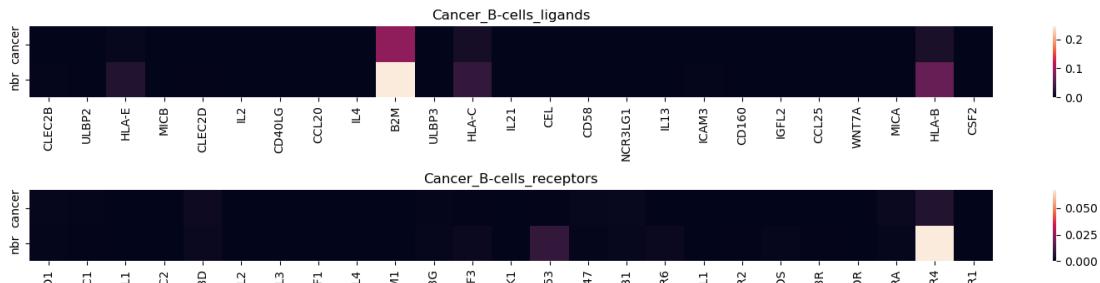


Figure 21: Cancer centric view - B cells

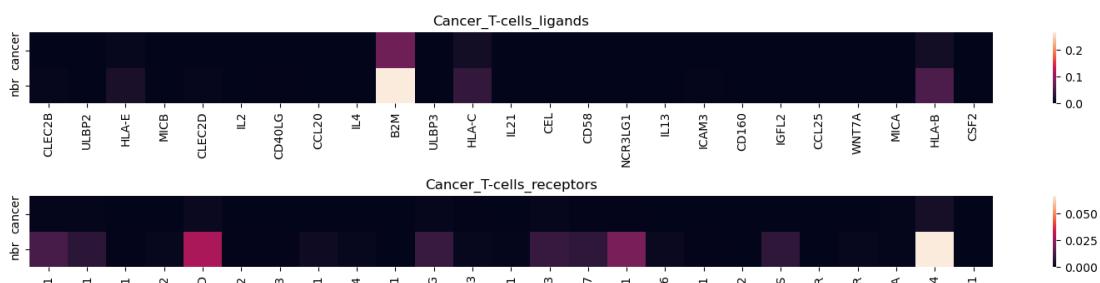


Figure 22: Cancer centric view - T cells

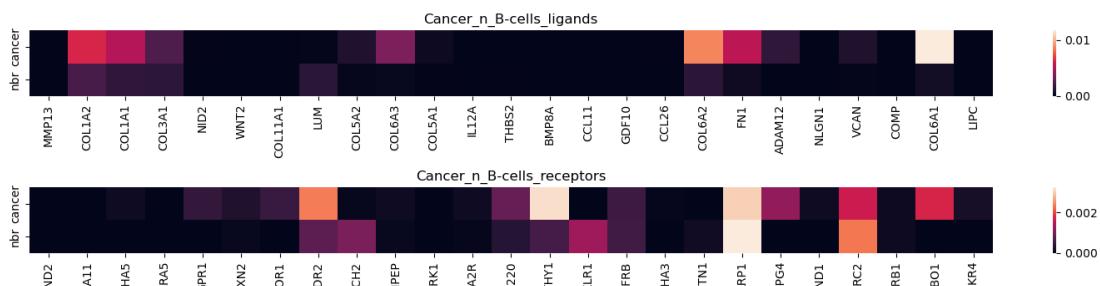


Figure 23: Cancer centric view - B cells

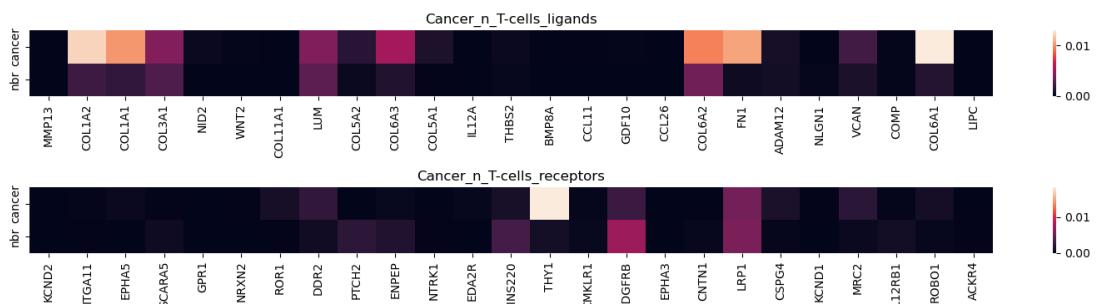


Figure 24: Cancer centric view - T cells

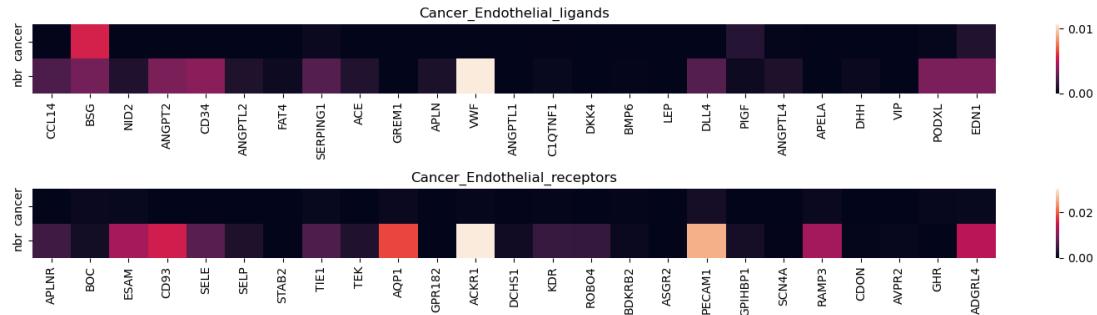


Figure 25: Cancer centric view - Endothelial

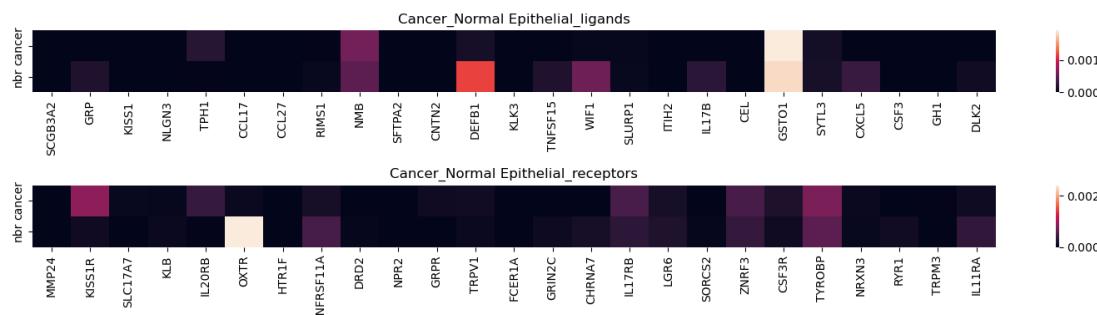


Figure 26: Cancer centric view - Normal Epithelial

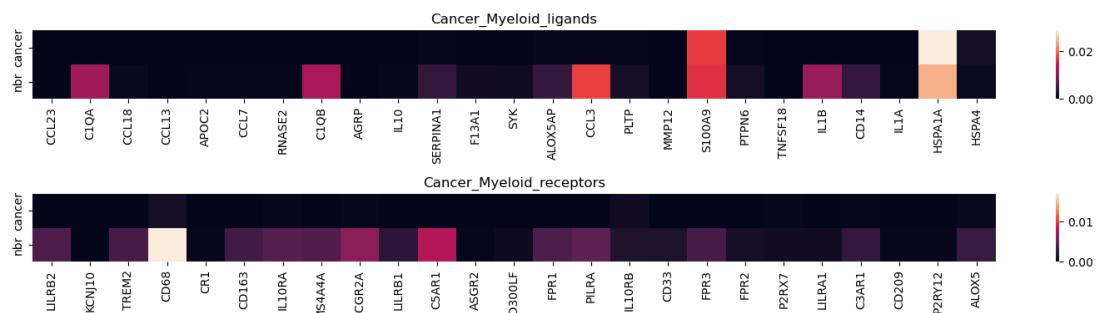


Figure 27: Cancer centric view - Myeloid

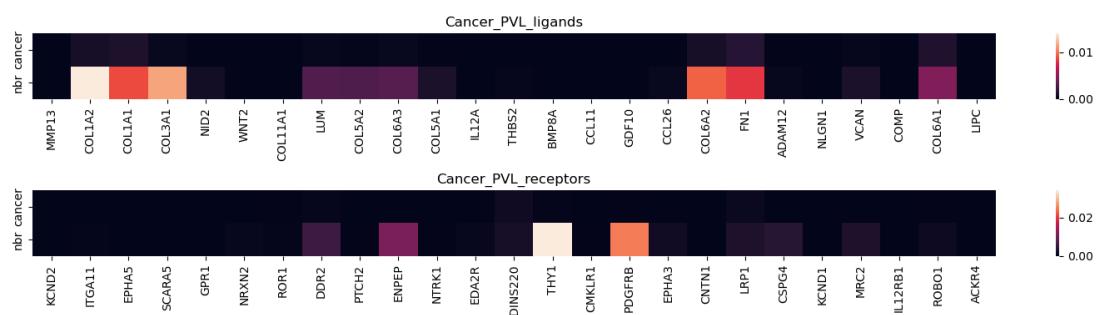


Figure 28: Cancer centric view - PVL