

Figures - Single-cell Pairwise Relationships Untangled by Composite Topic models

Park Lab

10:03:59 PM, Jun 21, 2022

Cell topic analysis

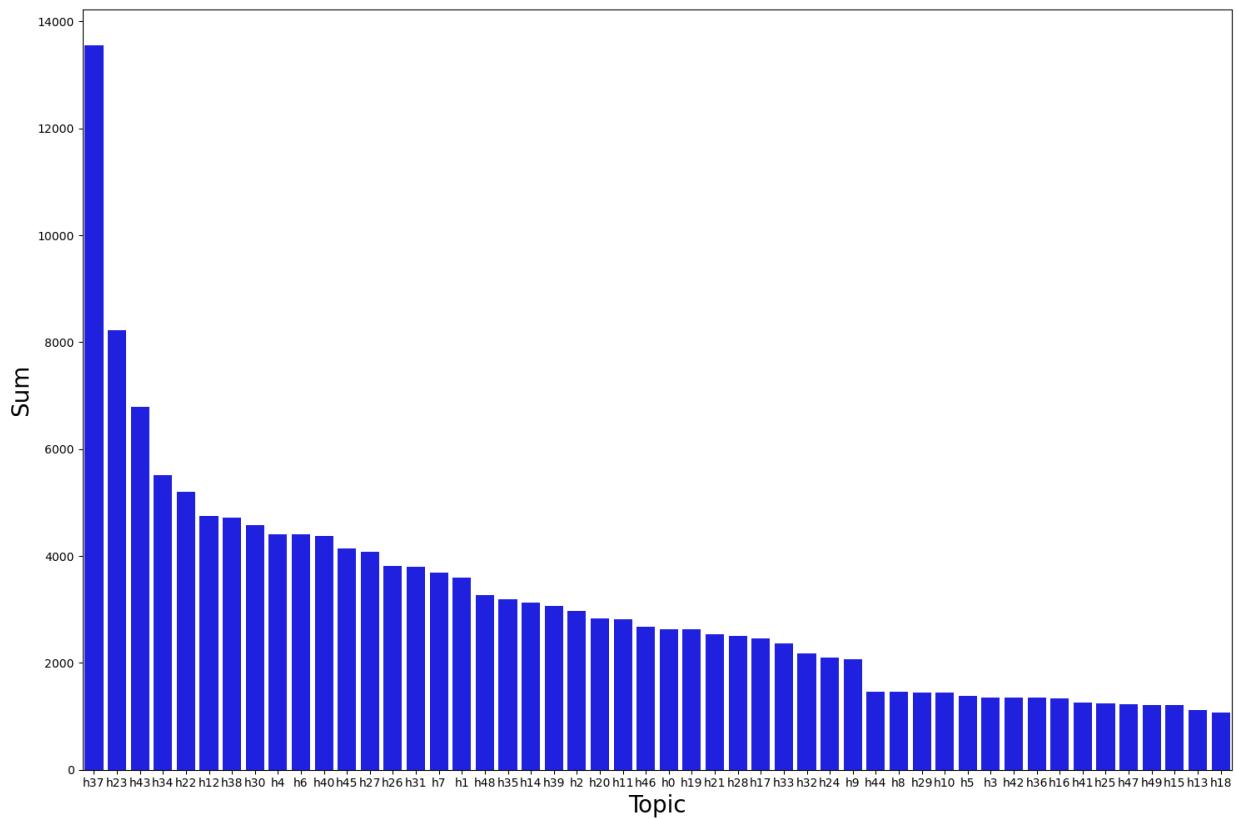


Figure 1: Topic sum

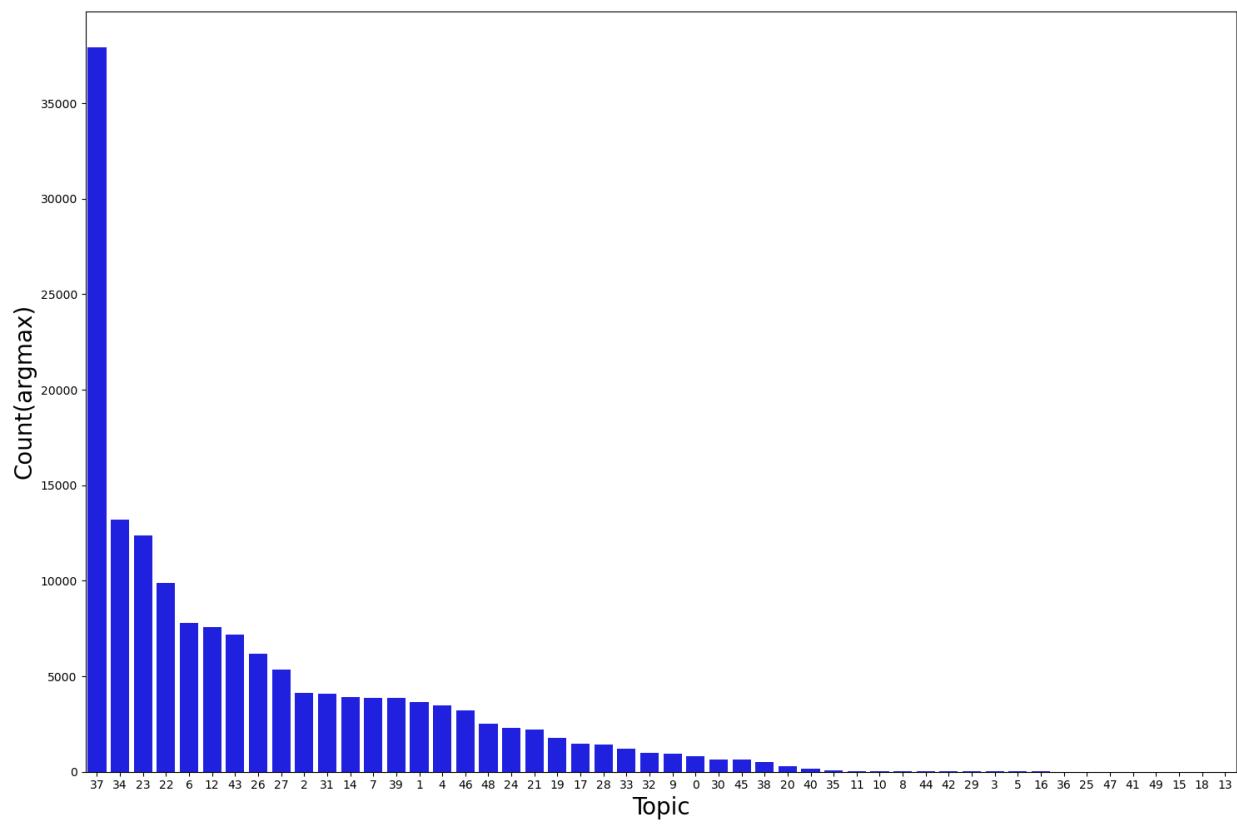


Figure 2: Topic argmax

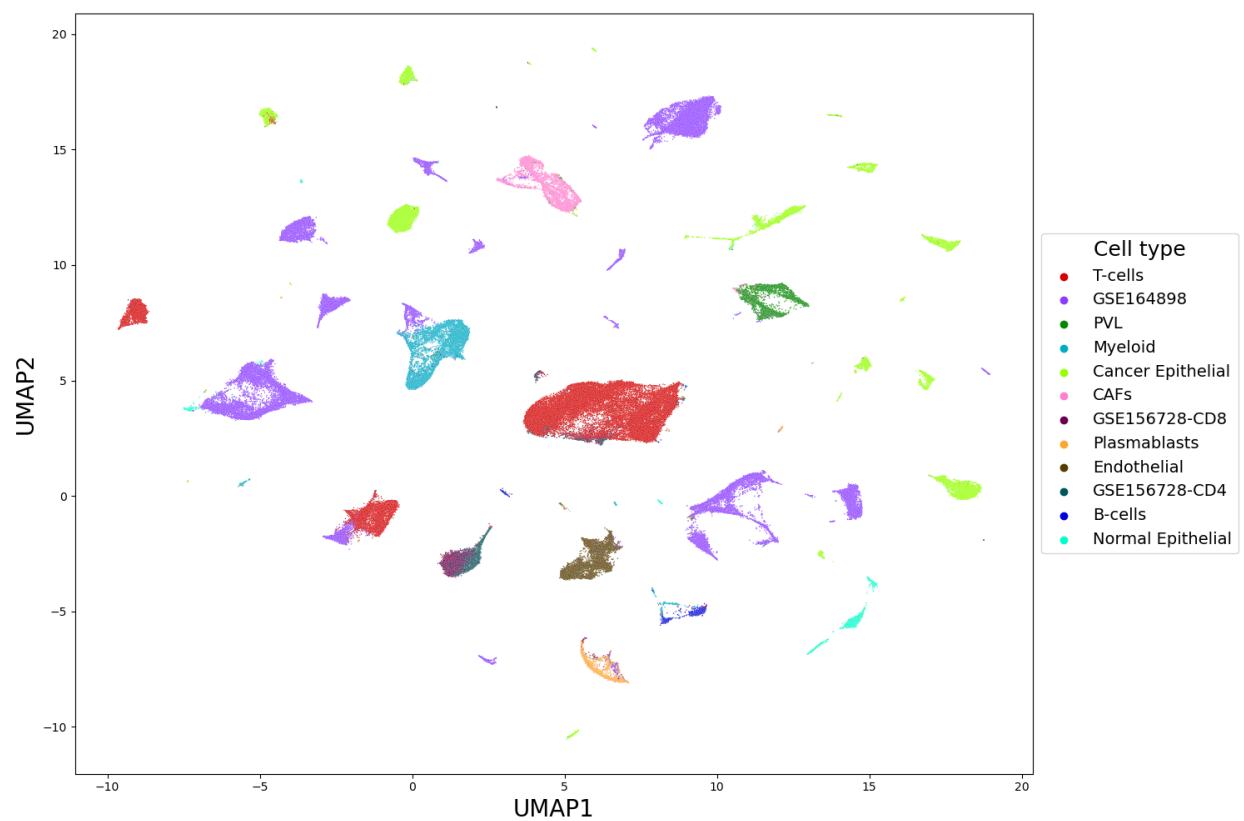


Figure 3: UMAP cell-type

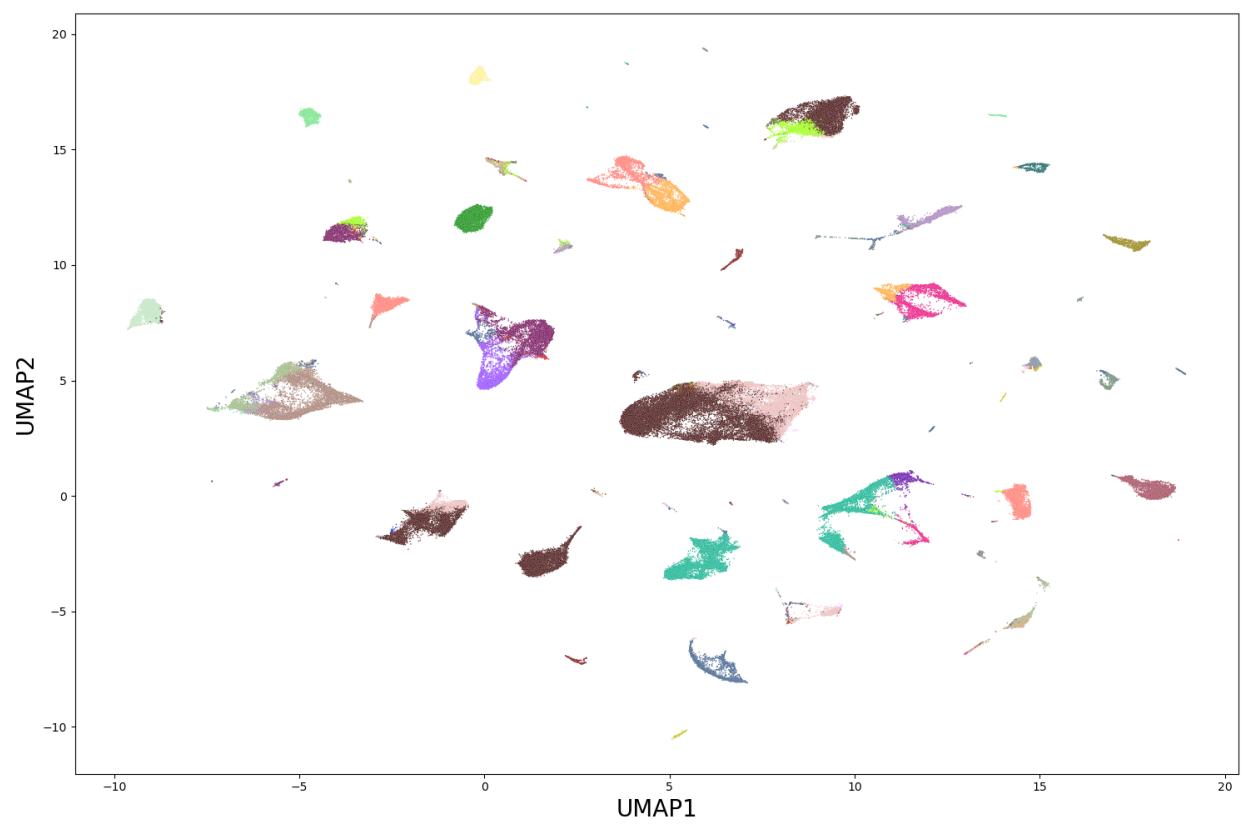


Figure 4: UMAP topic

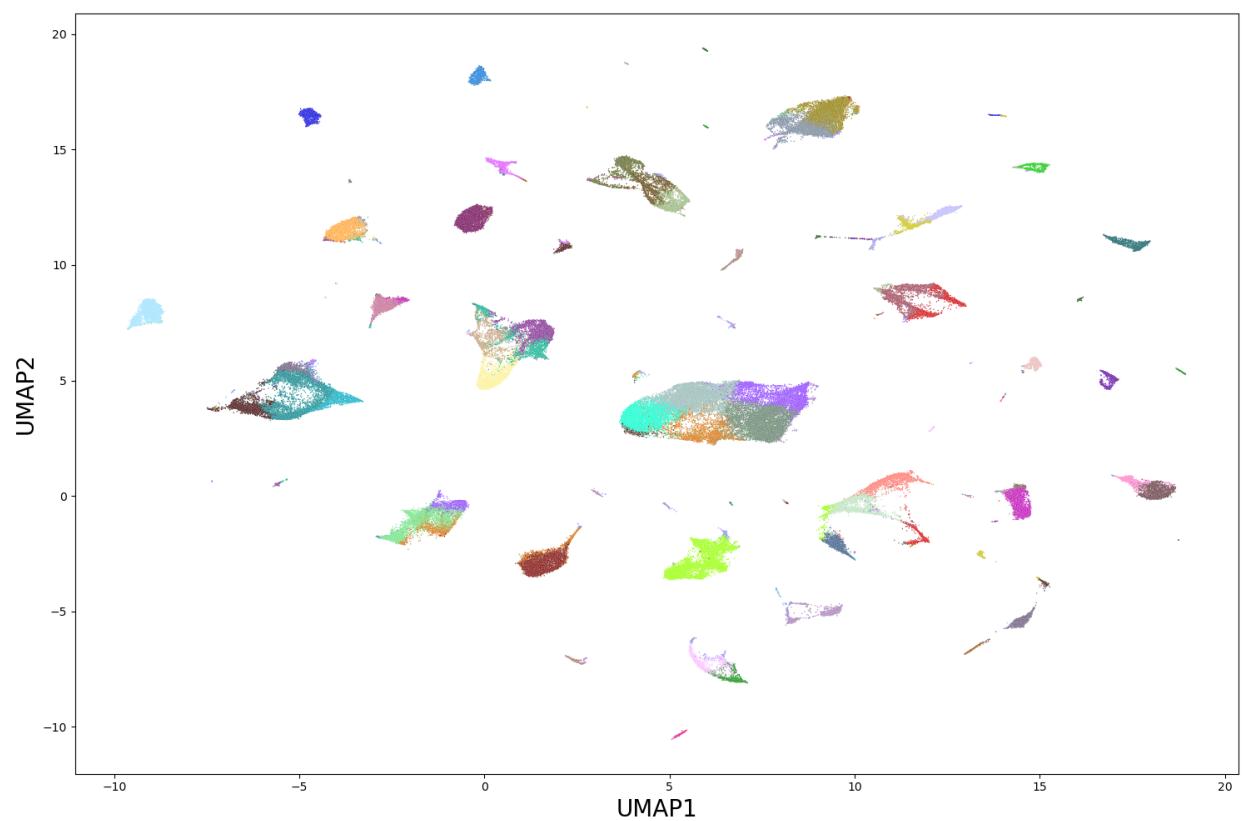


Figure 5: UMAP-kmeans ($k=50$)

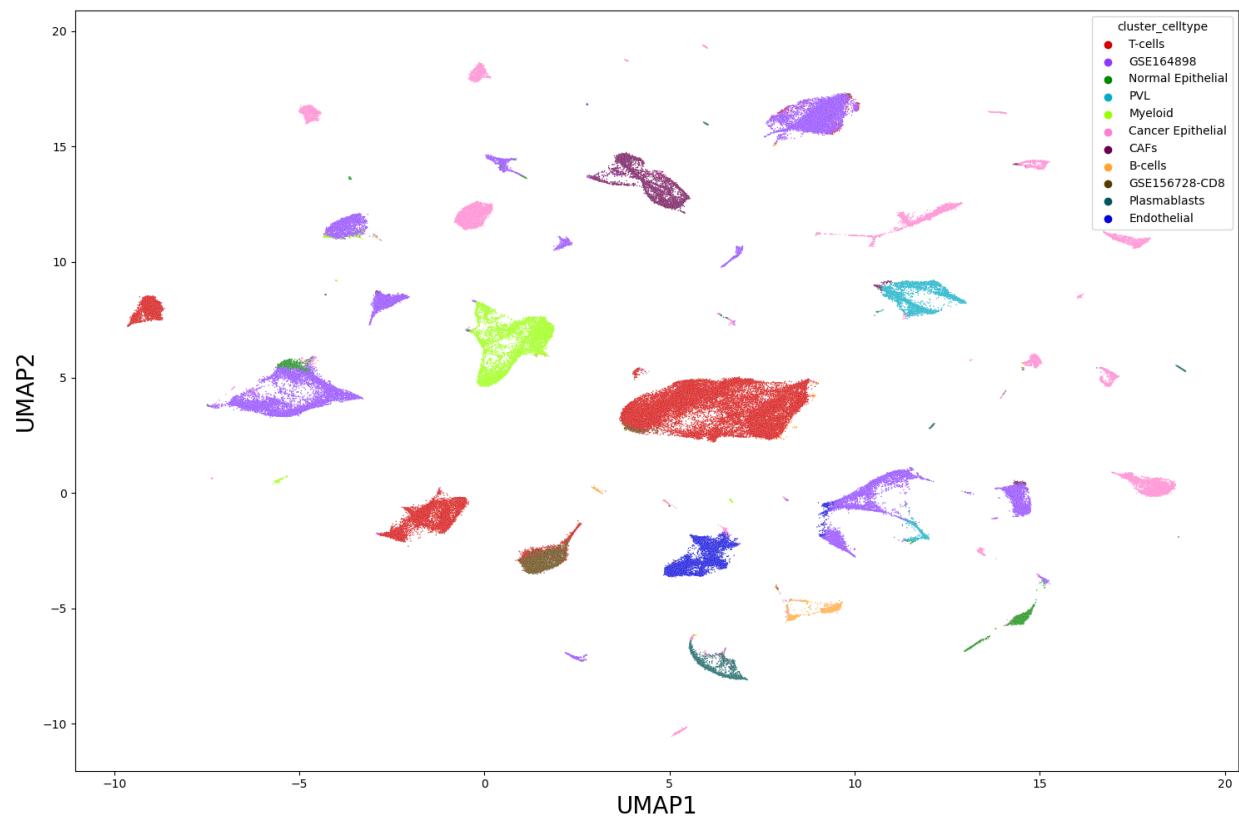


Figure 6: UMAP-kmeans($k=50$) cell-type

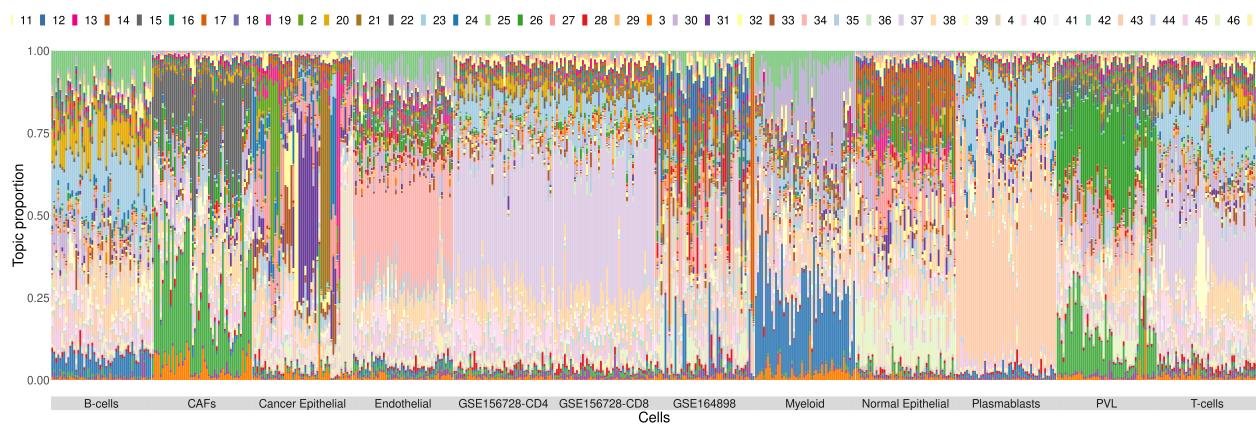


Figure 7: Structure plot cell-type

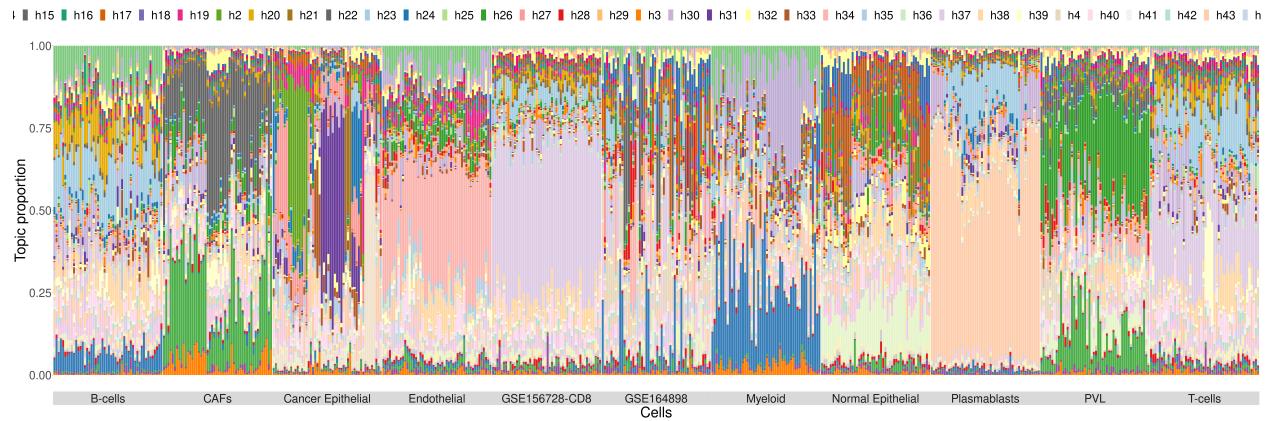


Figure 8: Structure plot kmeans majority cell-type

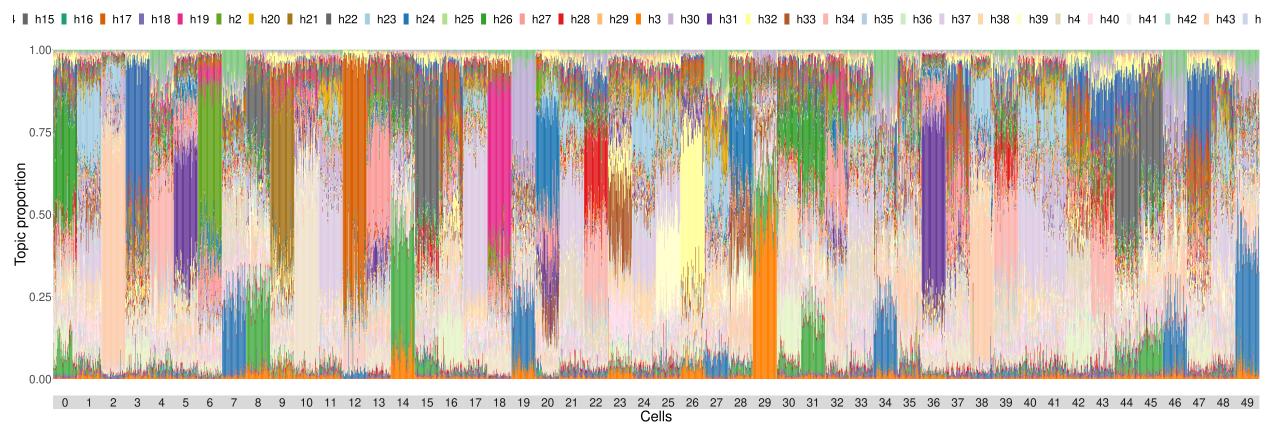


Figure 9: Structure plot kmeans cluster

Interaction topic analysis

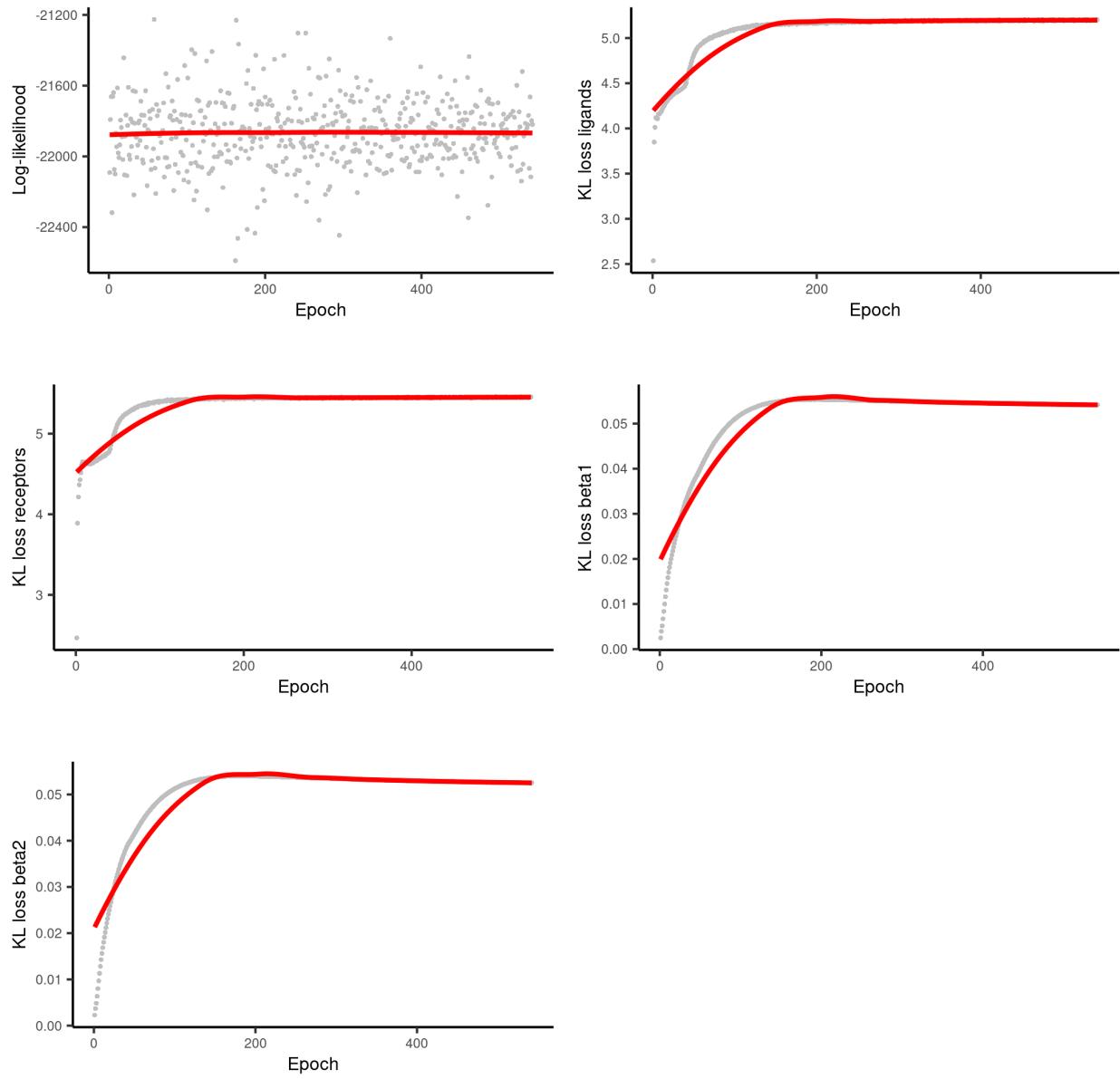


Figure 10: Loss plot

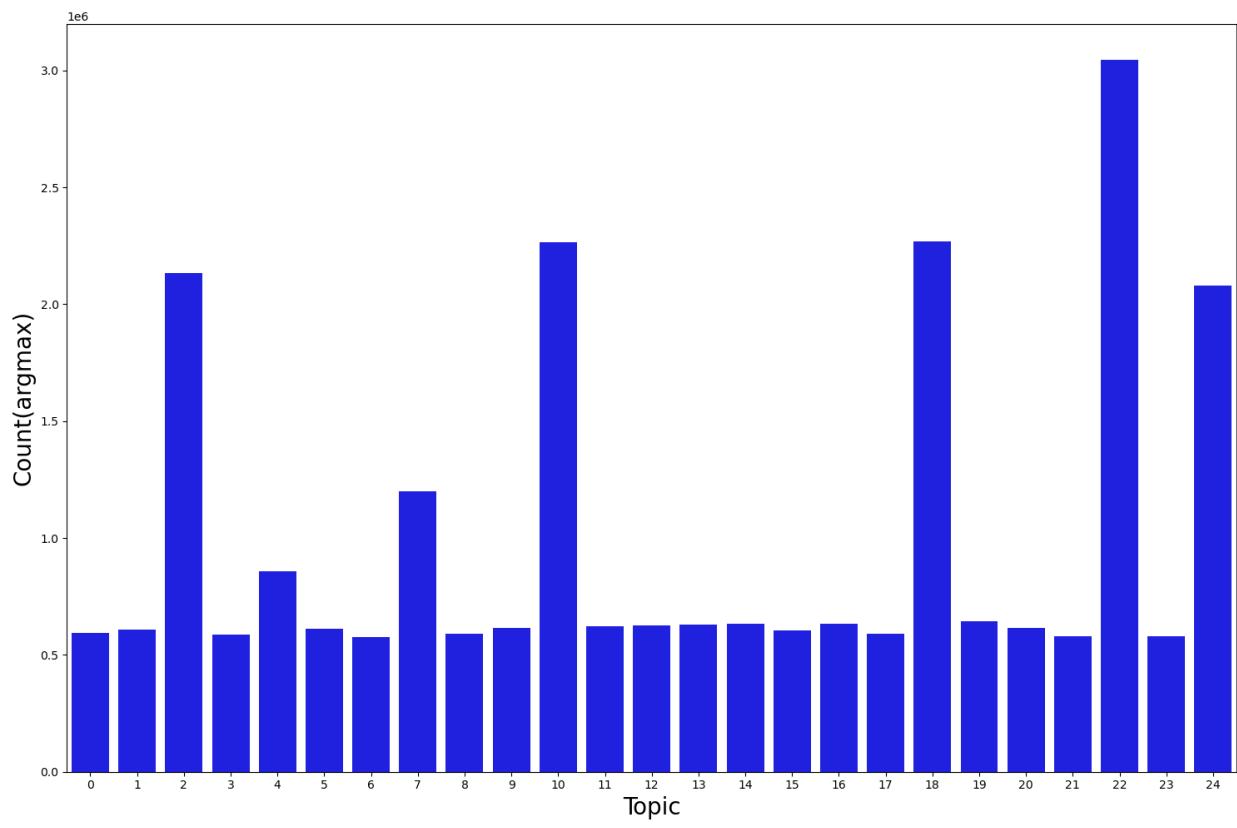


Figure 11: Interaction topic argmax

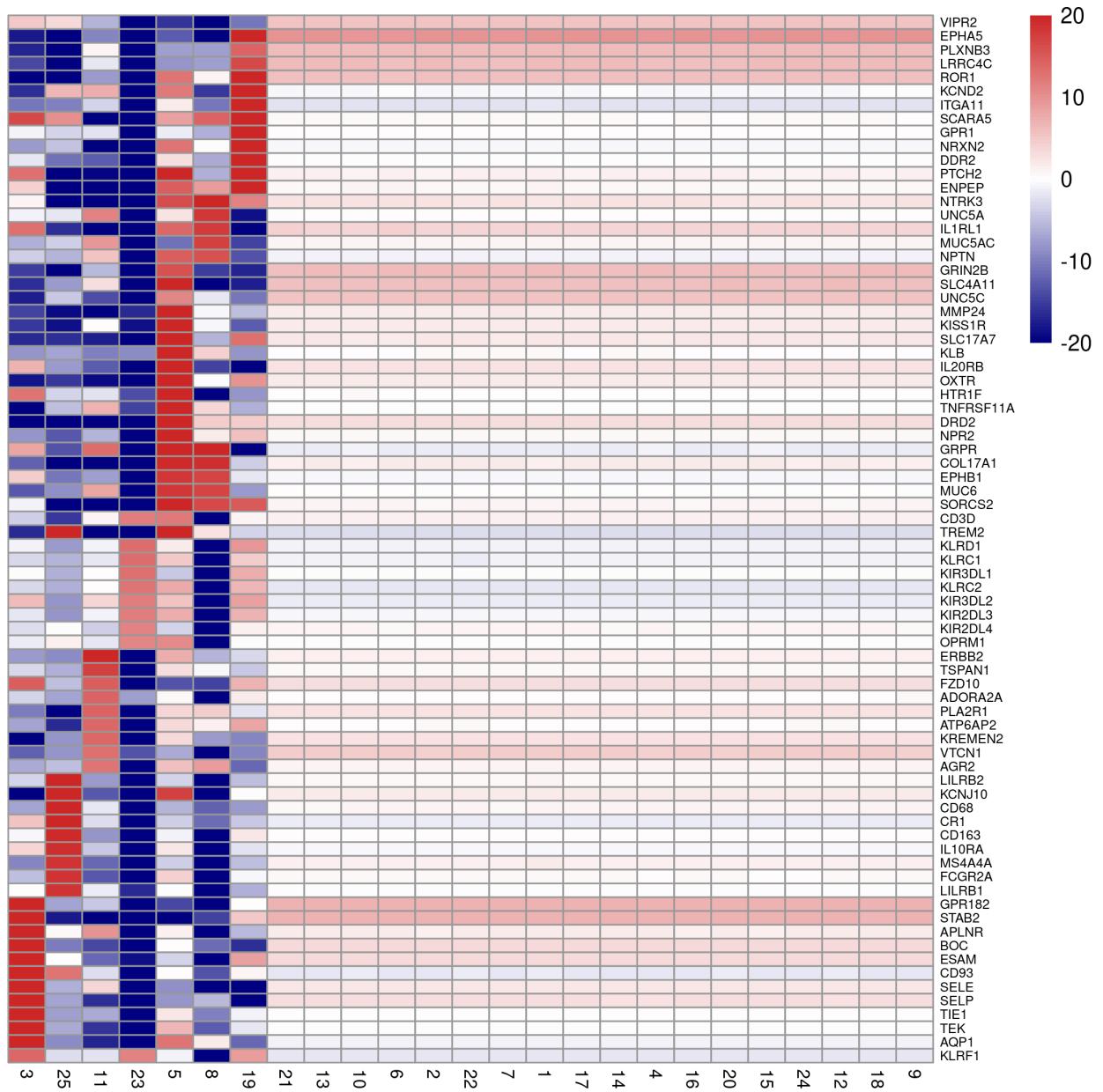


Figure 12: Beta - top receptor genes

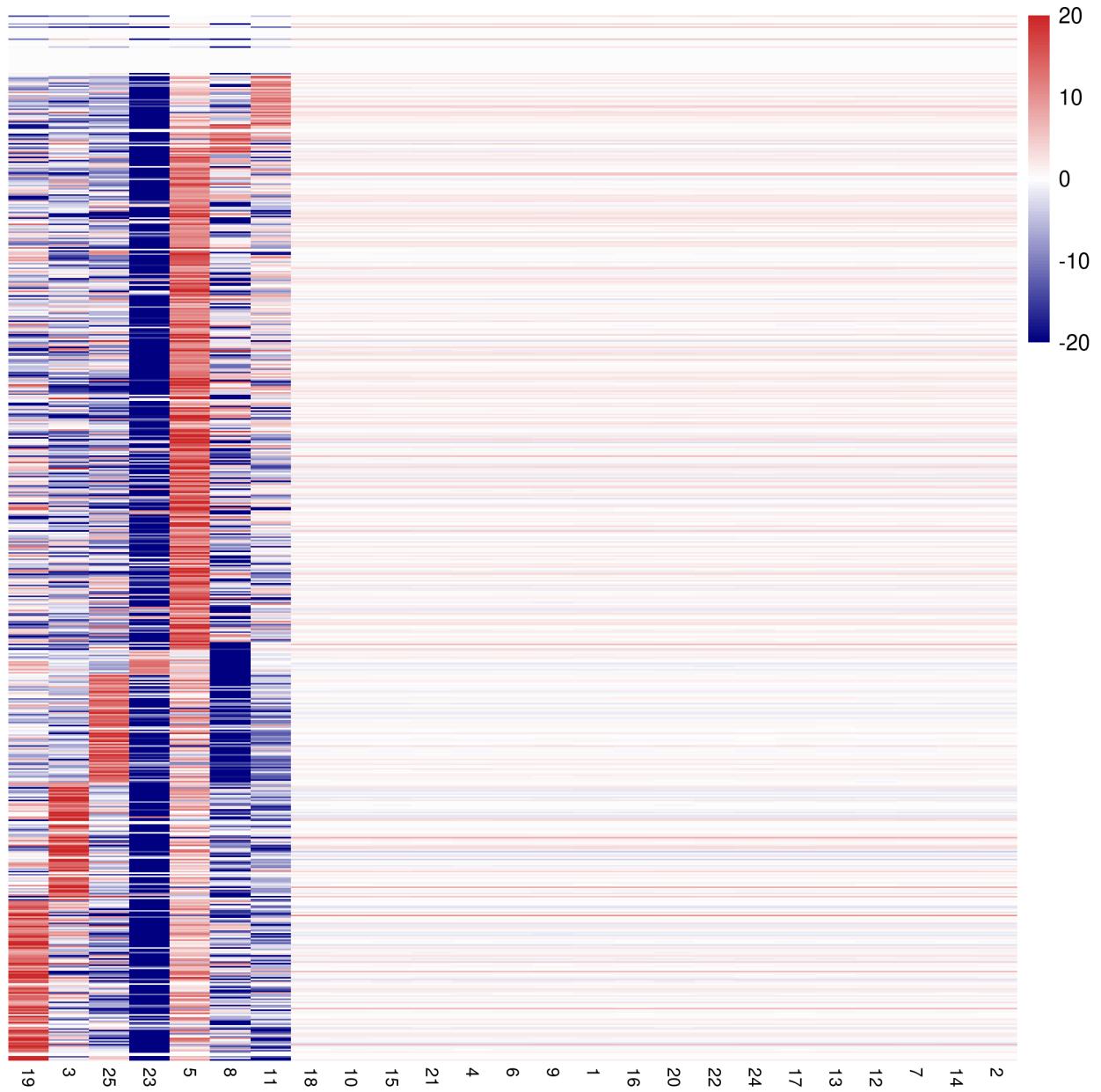


Figure 13: Beta - all receptor genes

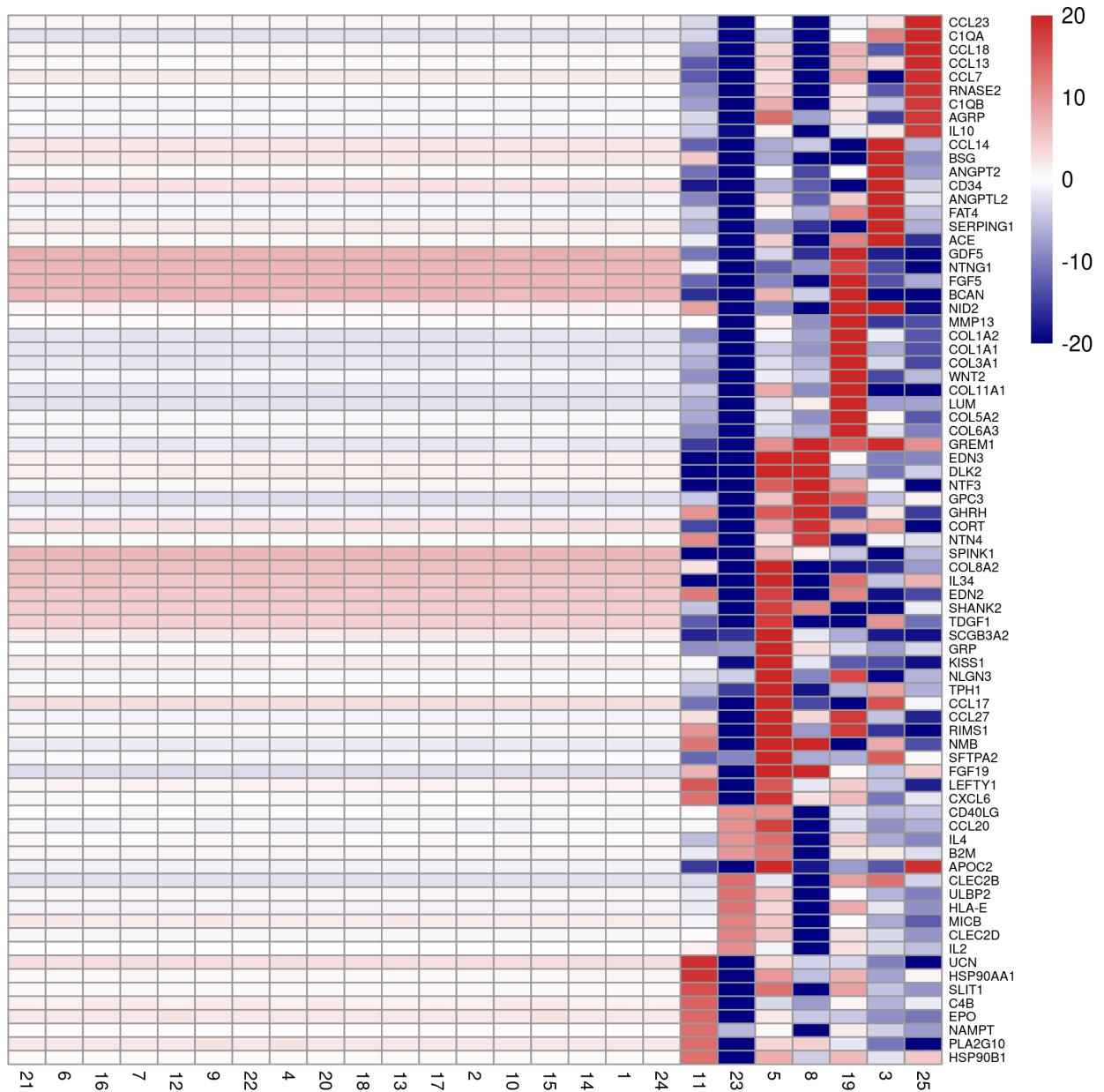


Figure 14: Beta - top ligand genes

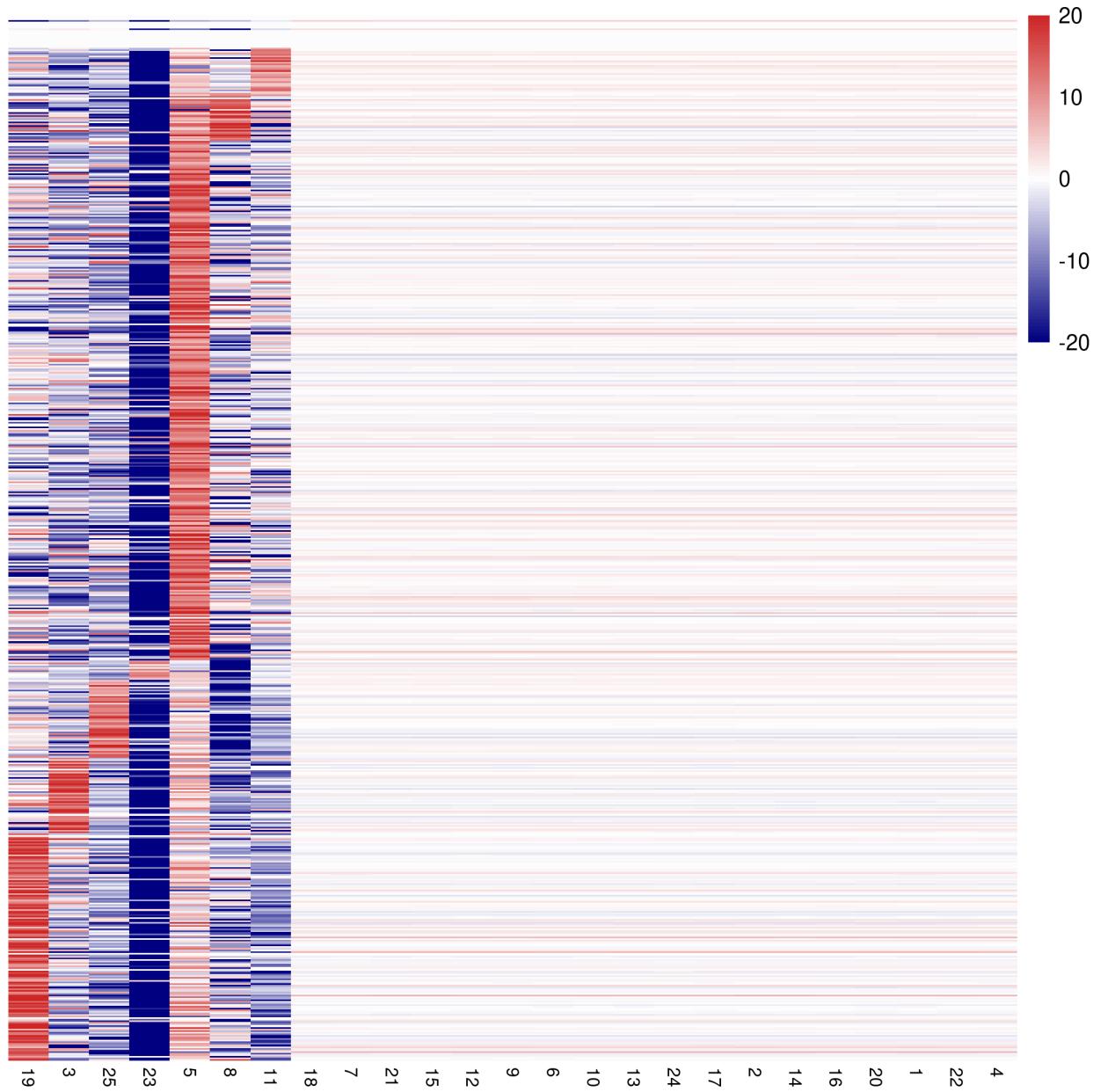


Figure 15: Beta - all ligand genes

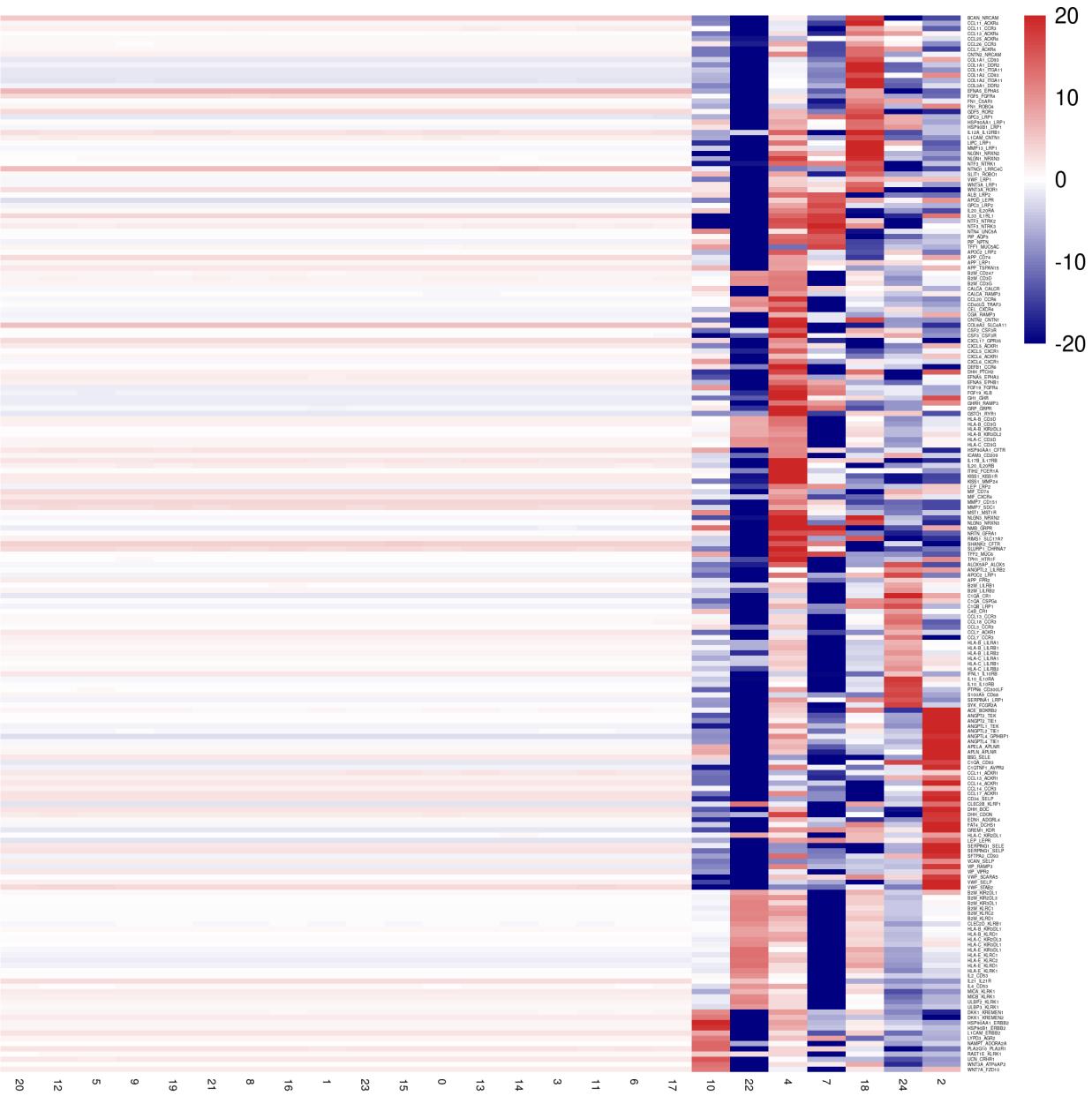


Figure 16: Beta - top lr pair genes

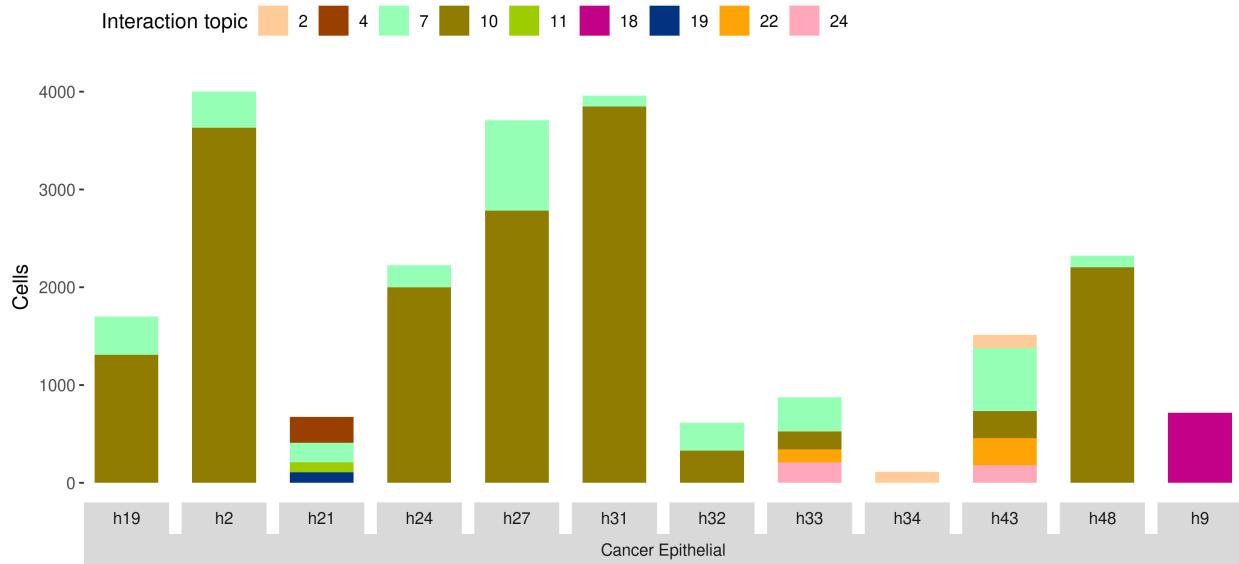


Figure 17: Model summary - cancer cells

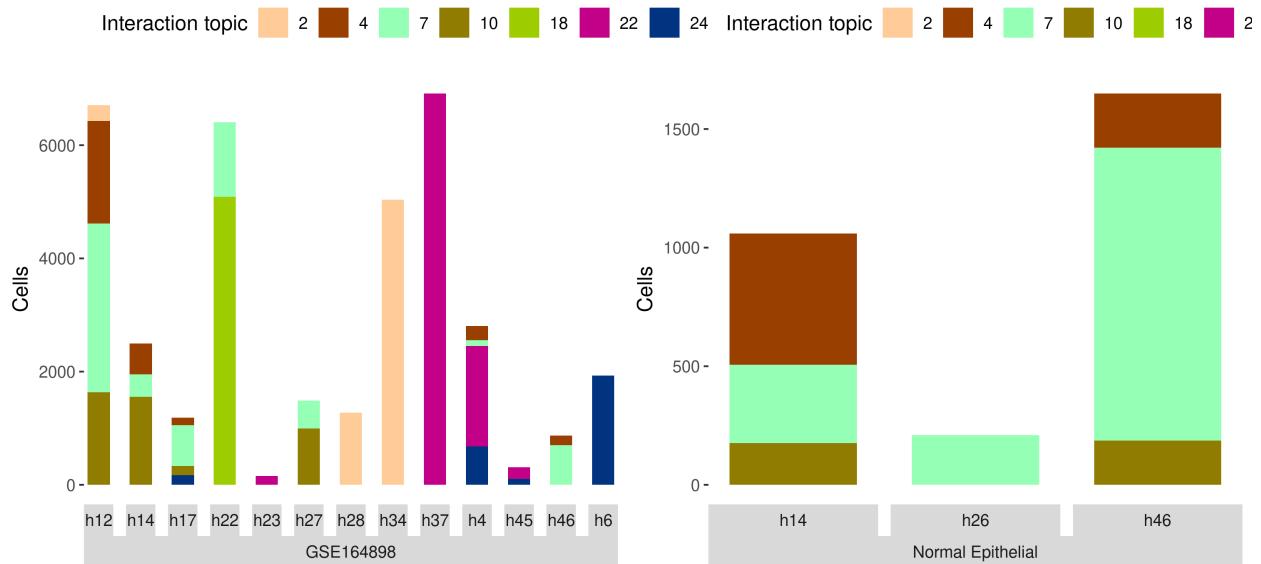


Figure 18: Model summary - normal cells

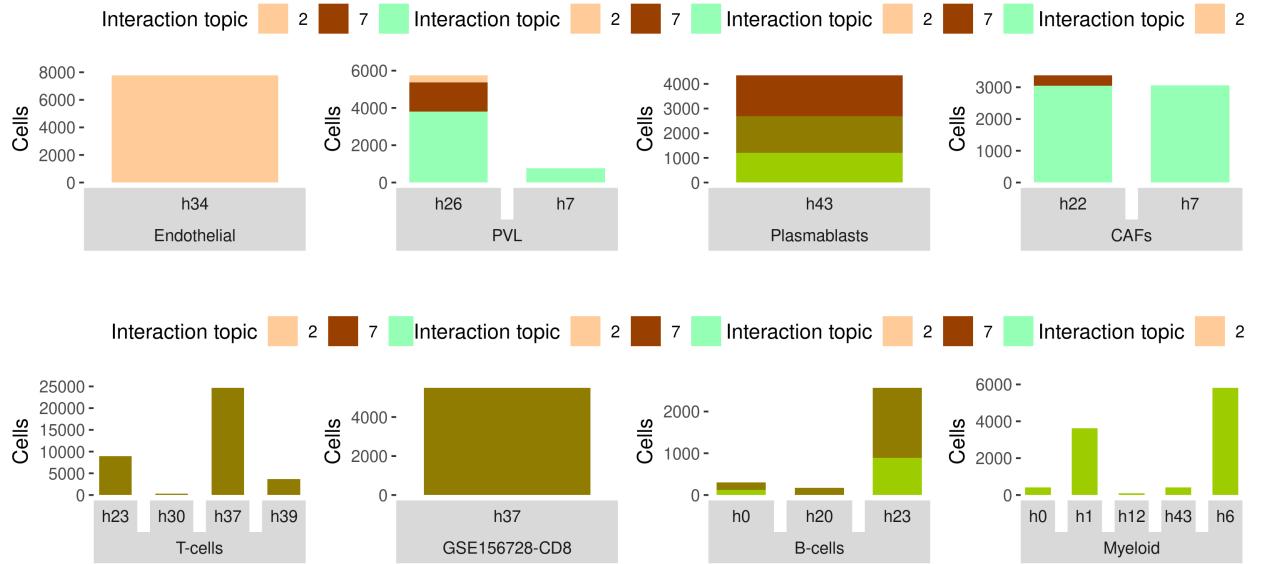


Figure 19: Model summary - others

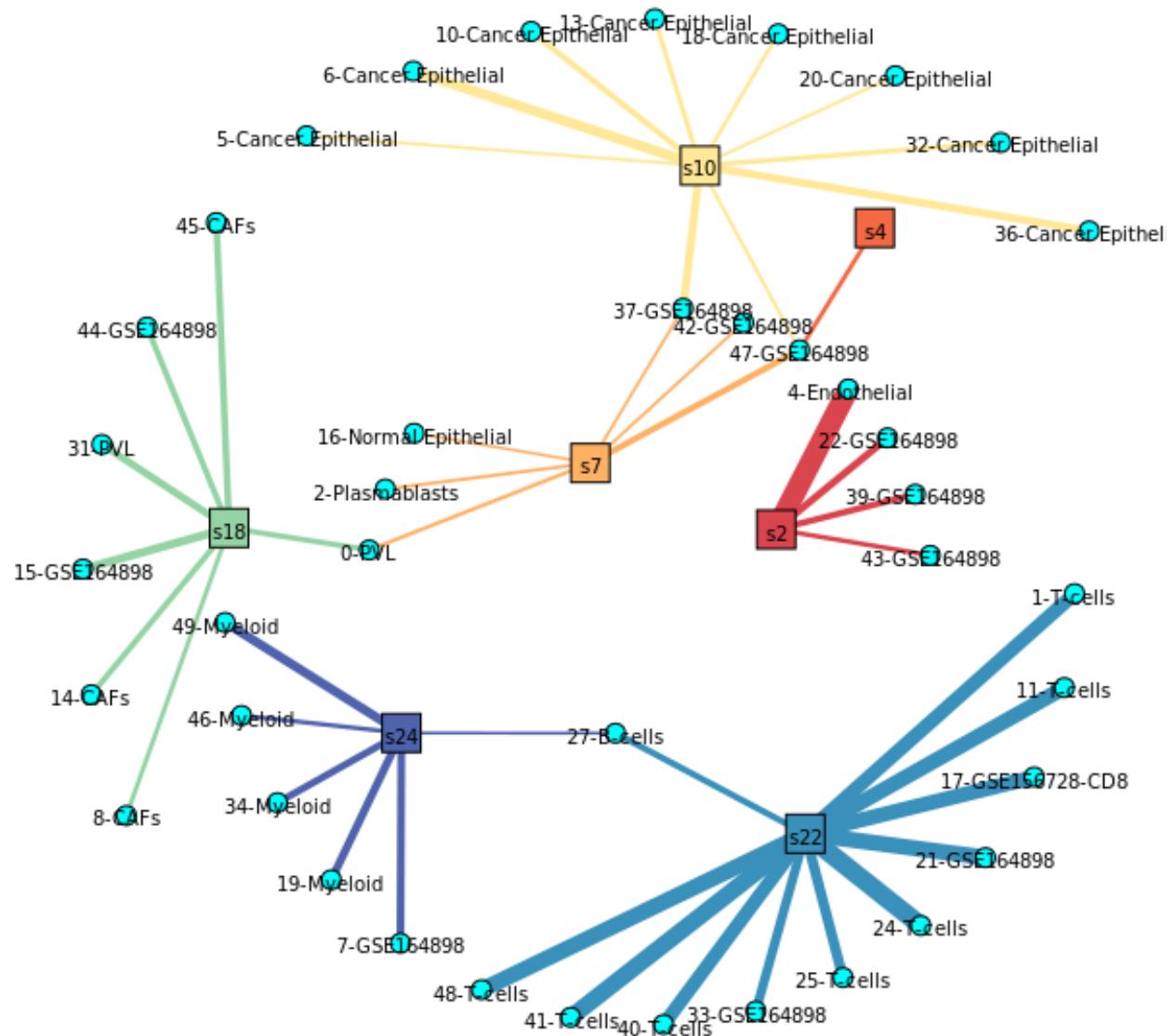


Figure 20: Network plot

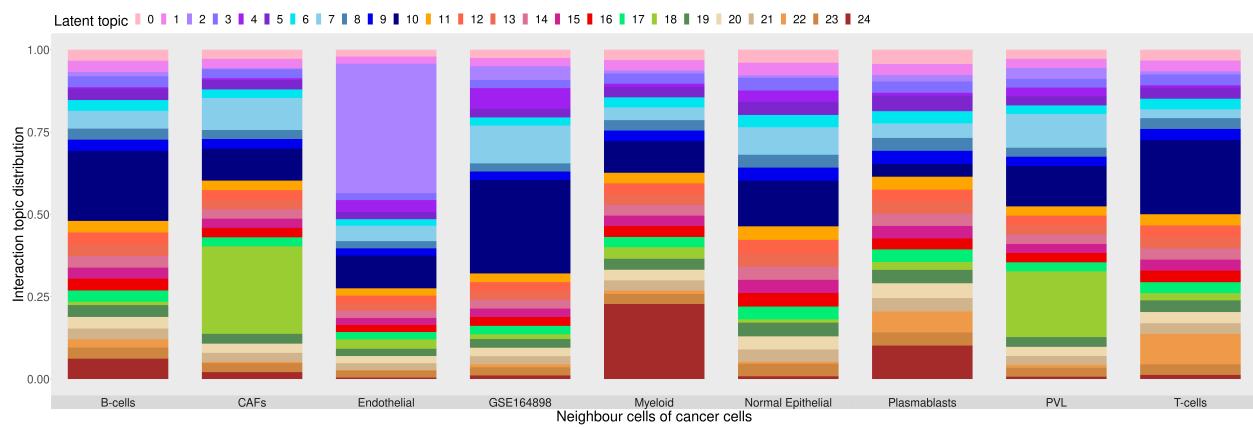


Figure 21: Cancer centric view