

Supplemental materials

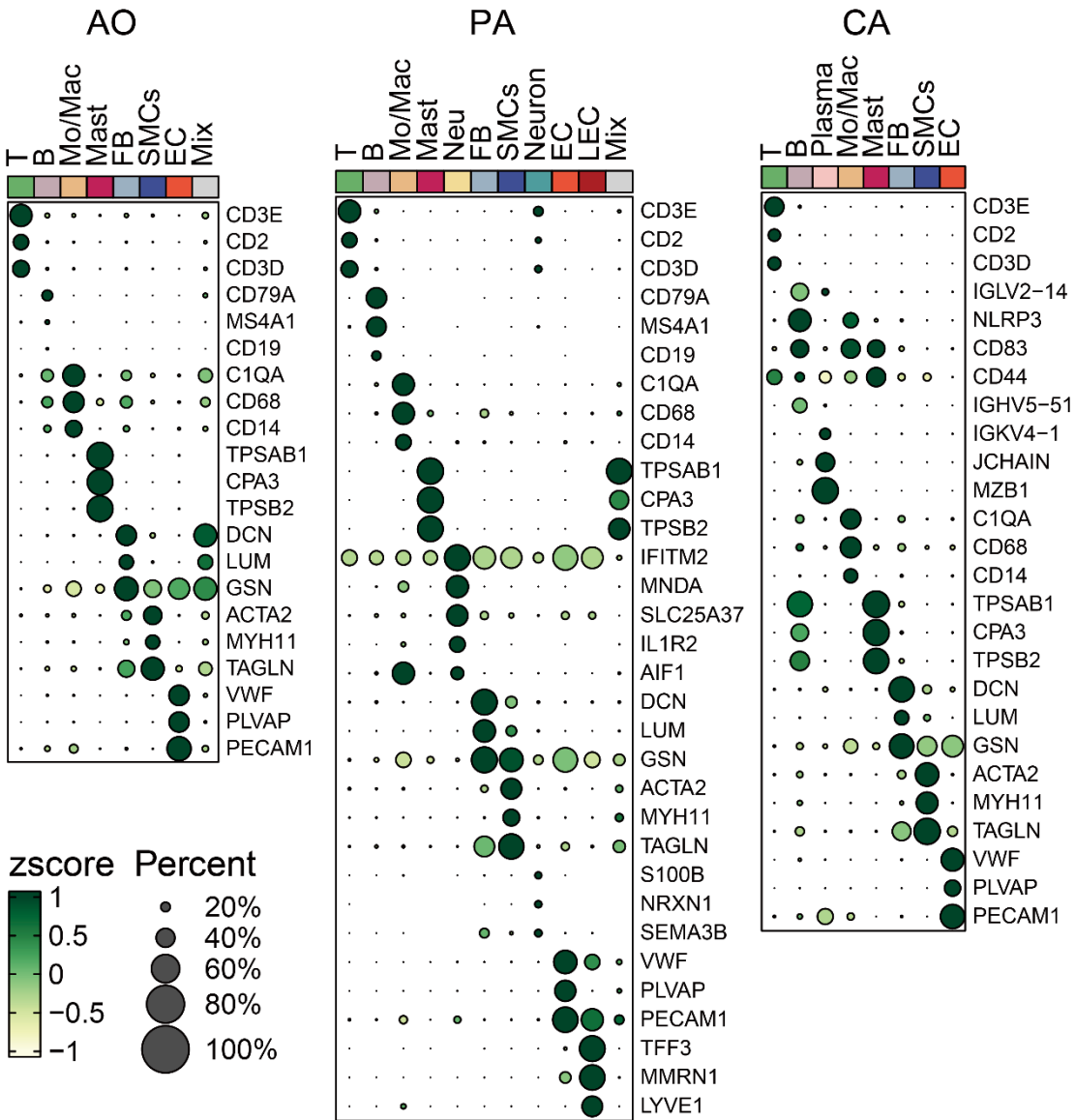


Figure S1. Marker gene expression profiles of major cell types across AO, PA, and CA. Bubble plots show representative marker gene expression across different cell populations in AO, PA, and CA.

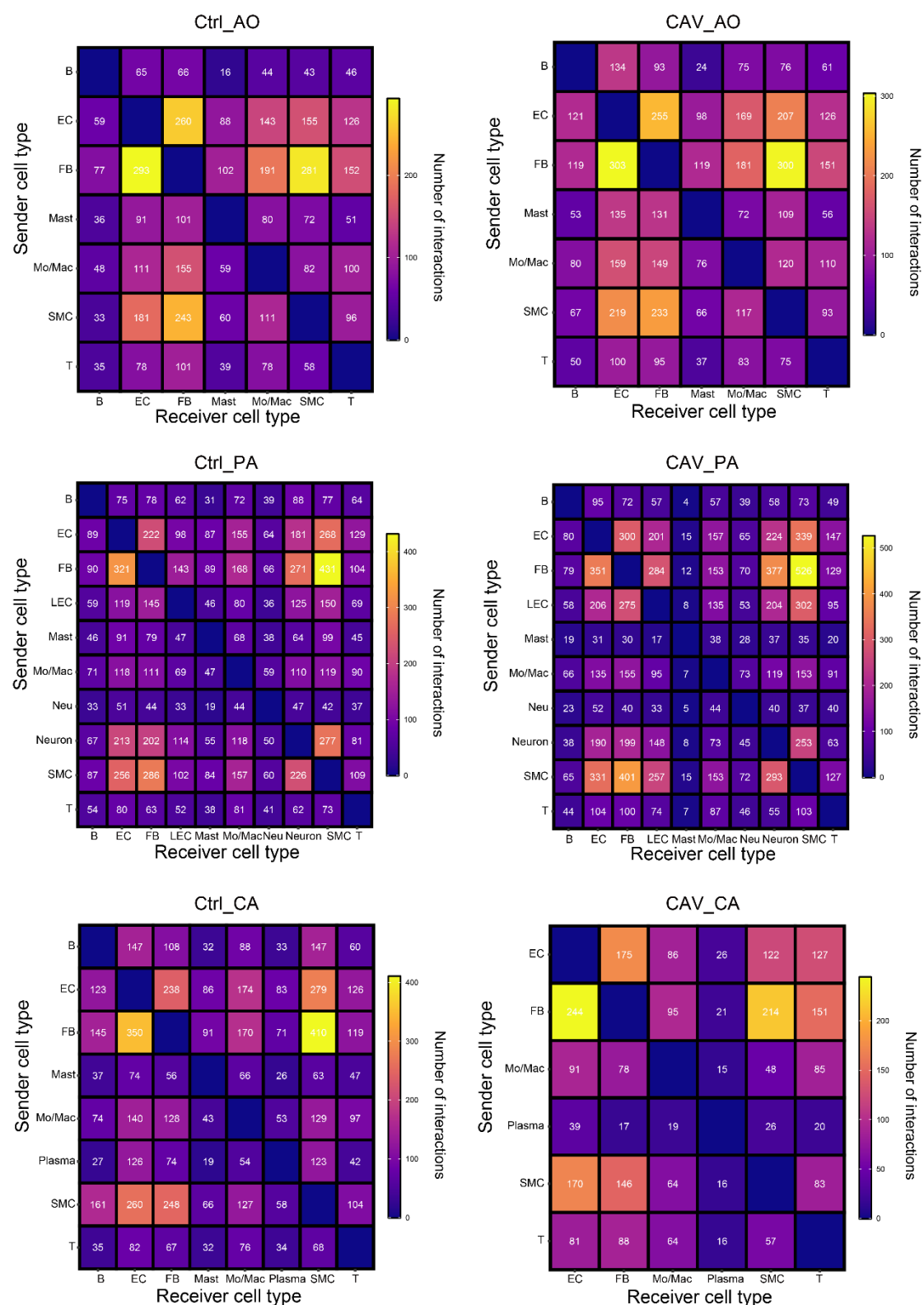


Figure S2. Cell-cell interaction heatmaps show the number of interaction pairs among different cell types in the AO, PA, and CA in the CAV and Ctrl groups.