

Figure S1. Analysis of cell proportions stratified by metastatic status.

Stacked bar plot comparing the relative proportions of major cell types between the LNM- and LNM+ groups. No significant lineage-specific expansion was observed at the major cell type level.

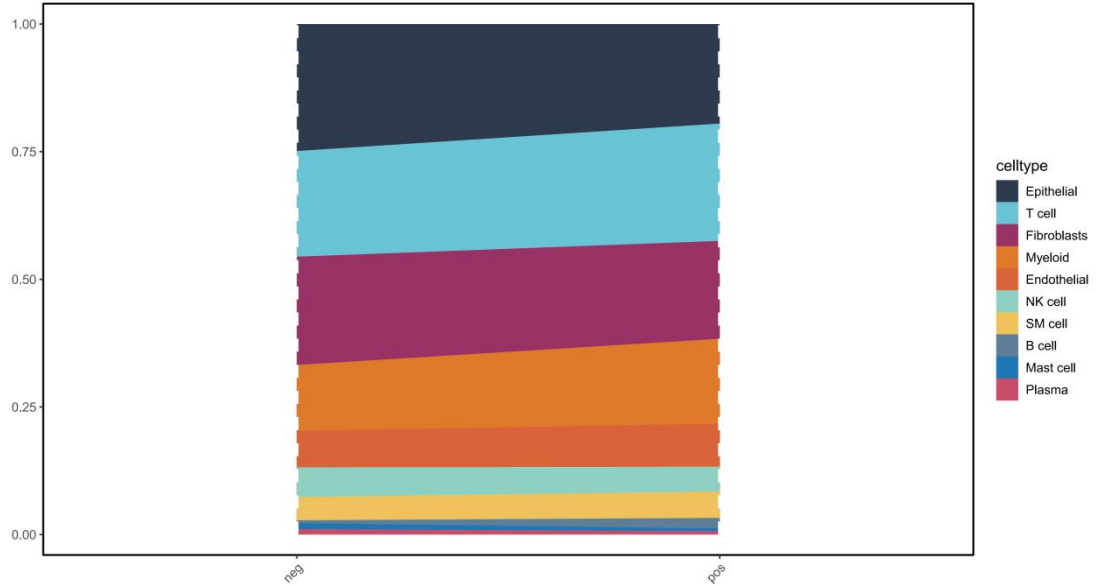


Figure S2. UMAP plot showing cell distribution colored by LNM status (positive vs. negative), indicating enrichment of the PLA2G2A+ sub-cluster in the positive group.

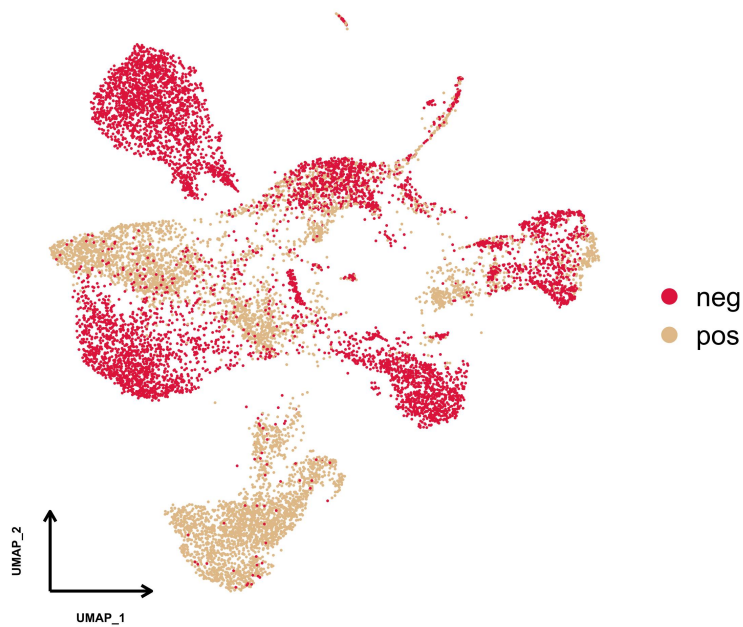


Figure S3. Feature plot illustrating the expression distribution of the PLA2G2A gene across fibroblast sub-clusters.

