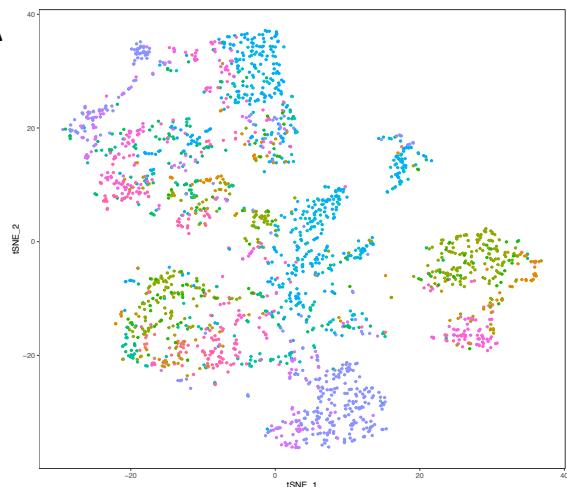
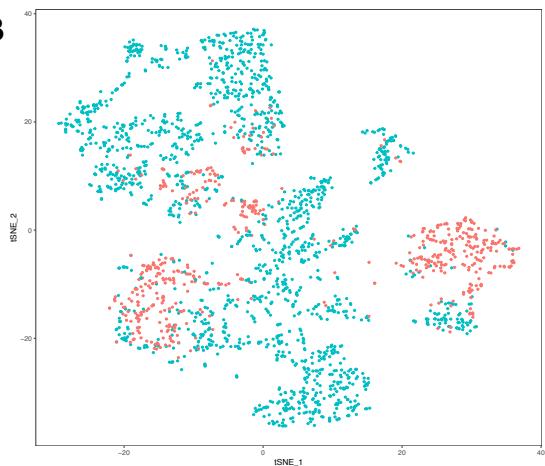
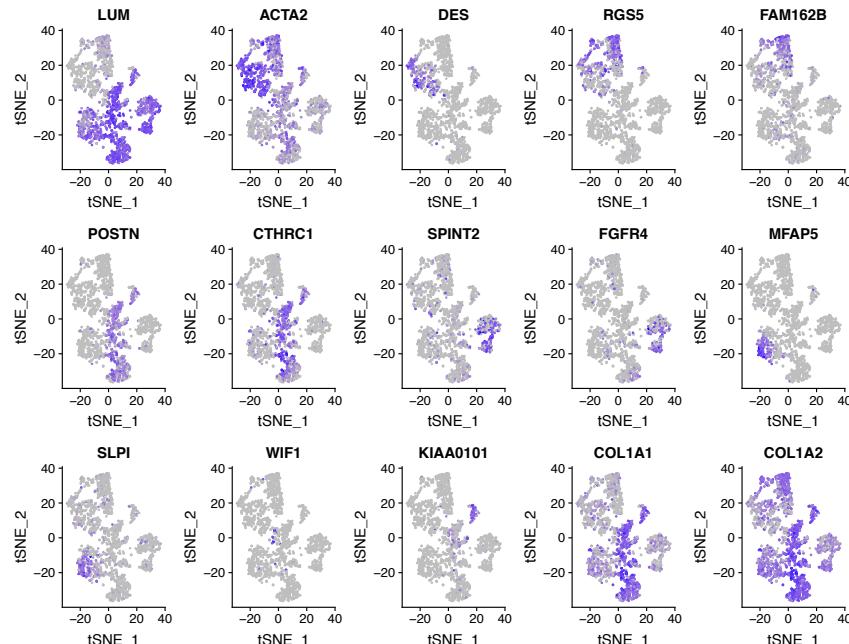
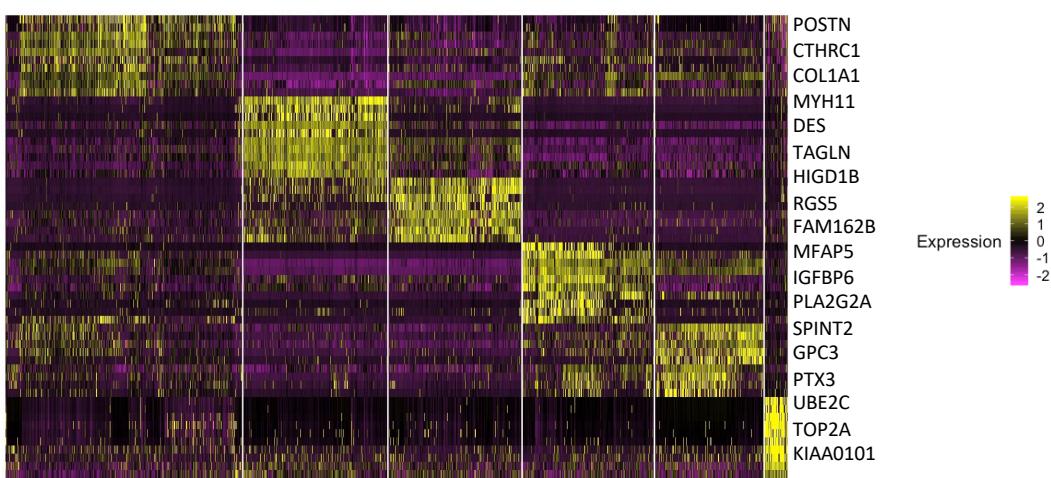


A**B****C****D**

Supplemental Figure 5

Single-cell RNA-sequencing of human healthy control and SSc-ILD mesenchymal cell populations. (A) t-SNE plot of mesenchymal cells colored according to sample of origin. (B) t-SNE plot of mesenchymal cell populations colored according to disease status. (C) Feature plots demonstrating gene expression of the identified mesenchymal cell types: all fibroblasts (*LUM*), smooth muscle (*DES, ACTA2*), pericytes (*RGS5, FAM162B, ACTA2*), myofibroblast (*ACTA2, POSTN, CTHRC1*), SPINT2^{hi} fibroblast (*SPINT2, FGFR4*), MFAP5^{hi} fibroblast (*MFAP5, SLPI*), WIF1^{hi} fibroblast (*WIF1*), proliferating myofibroblast (*KIAA0101, POSTN, CTHRC1, ACTA2*). (D) Heat map of scaled gene expression data for the top 10 differentially expressed genes identifying each cluster (0-myofibroblast, 1-smooth muscle, 2-pericyte, 3-MFAP5^{hi} fibroblast, 4-SPINT2^{hi} fibroblast, 5- proliferating myofibroblast), with selected genes listed.