

Description of Additional Supplementary Files

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Title: Supplementary Data 1

Description: Sample and clinical metadata information related to the final set of HLCA scRNA-seq samples used in this study. Includes study source, sex, age, and ethnicity.

Title: Supplementary Data 2

Description: Curated list of normal lung cell type and cell cycle markers based on single cell data.

Title: Supplementary Data 3

Description: Curated list of senescence markers used in this study.

Title: Supplementary Data 4

Description: List of epithelial, myeloid, T/NK, and all lung cell type cNMF modules used as input features for XGBoost age predictor and their corresponding top 25 genes.

Title: Supplementary Data 5

Description: Clinical metadata for PBMC donors used in the mitochondrial stress test experiment.

Title: Supplementary Data 6

Description: Clinical metadata for normal lung autopsy samples used for Xenium spatial transcriptomics profiling and Xenium gene panel, used for figures.