UMAP -- Disease 6 4 Disease pulmonary sarcoidosis pulmonary fibrosis lung large cell carcinoma pleomorphic carcinoma chronic rhinitis UMAP2 chronic obstructive pulmonary disease lung adenocarcinoma squamous cell lung carcinoma lymphangioleiomyomatosis interstitial lung disease hypersensitivity pneumonitis non-specific interstitial pneumonia 0 -COVID-19 normal **-**2

7.5

10.0

12.5

15.0

0.0

-2.5

2.5

5.0

UMAP1