

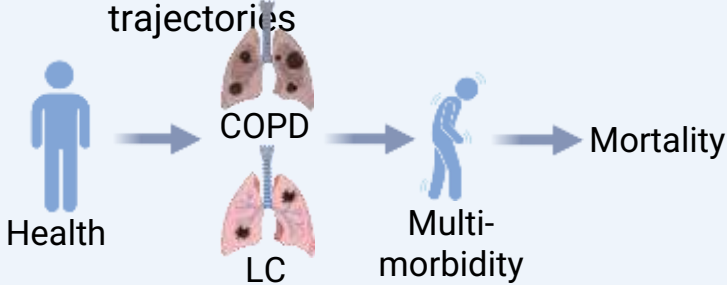
501,913 UK Biobank participants

Exclusion criteria:

- Participants with prevalent COPD (N=17,940)
- Participants with prevalent cancer (N=241)
- Diagnosis of COPD and LC on the same day (N=4)

483,728 participants included

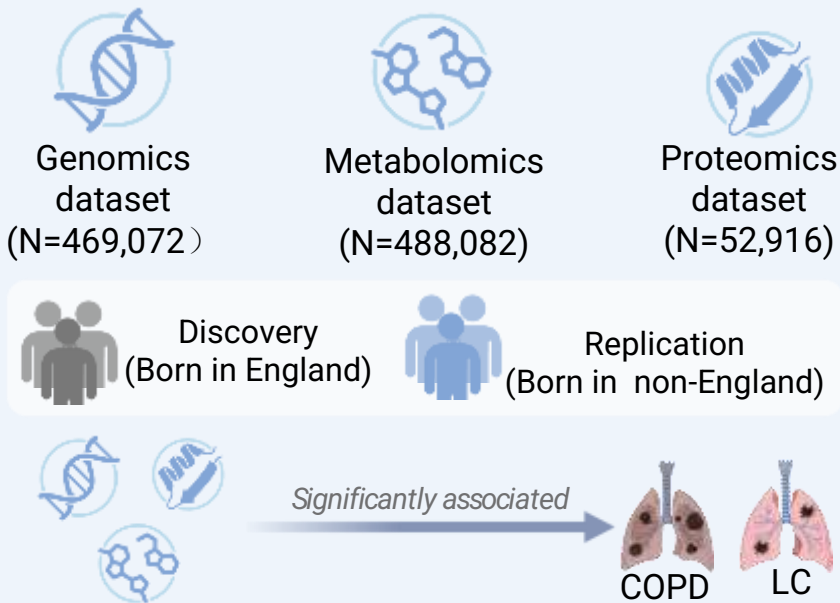
Step 1 Characterize disease trajectories



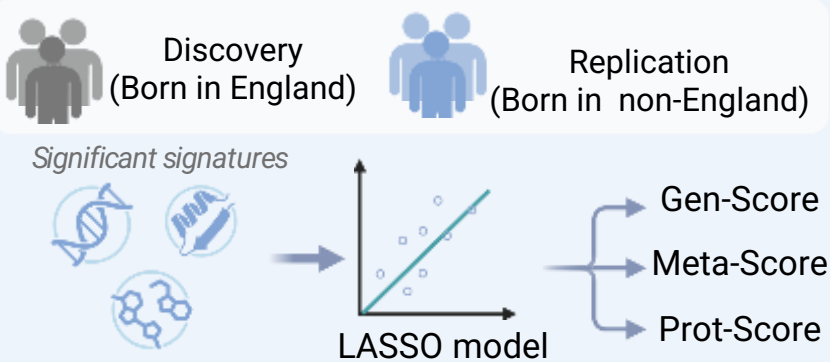
Inclusion criterion:

- Participants with corresponding omics data

Step 2 Identify multiomics signatures



Step 3 Construct omics-based prediction model



Inclusion criterion:

- Participants with corresponding omics data

Step 4 Evaluate and compare model performance

