Variation in Clinical Phenotypes

Candidate-gene Approach

Known or Putative Mechanisms

- Inflammation
- Immune response
- Lung biology

Genetic Variants

Gene Expression

- microRNAs
- cis-regulatory variation

Genome-wide Scan

Unbiased and Genome-based

GWAS

Gene Expression

- microRNAs
- eQTLs
- Others
- miRSNPs