

Children with moderate-to-severe asthma



SysPharmPediA

Unsupervised approach

Metabolomics

Diet

Microbiome

Inflammatory markers

Feces

Serum

24h food diaries

Feces

Blood/Serum

Similarity network fusion integrative clustering with estimating optimum number of clusters

Check 24h diaries intake
Do the clusters differ in nutrient intake?

Check underlying molecular pathways
Do the clusters differ in their underlying molecular pathways?

Obtained clusters (metabotypes) and phenotype discovery

Check clusters differences
In what clinical, and metabolic aspects do clusters differ?

