

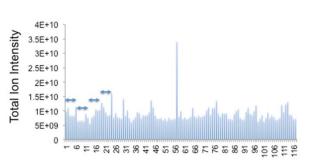
Sample analysis (C18) shows that there is consistent LCMS system response during weeklong analysis period.

Triplicate analyses are reproducible

Random high response probably represents a residual problem with sample processing or inconsistencies in complex system (sample, autosampler and injector components, multiple valves, electrospray inhomogeneities or electromagnetic properties of ion transfer tube)





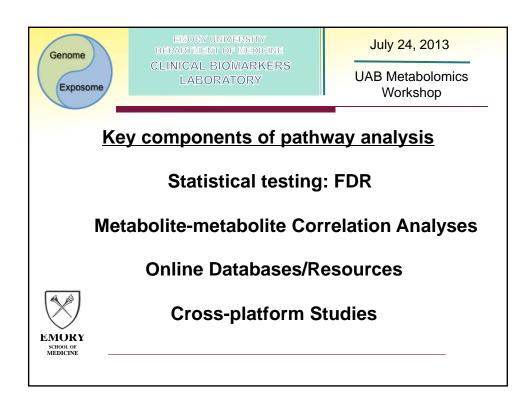


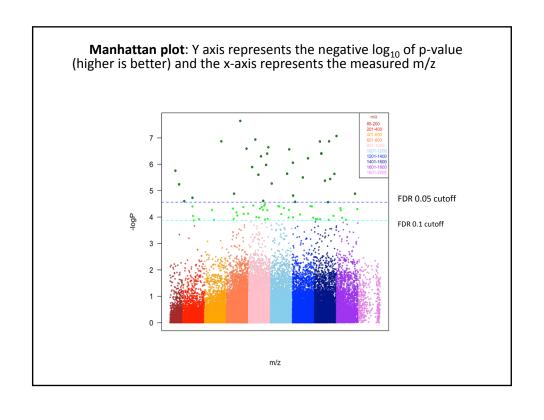
Repilcates Averaged, Samples Grouped by Individual

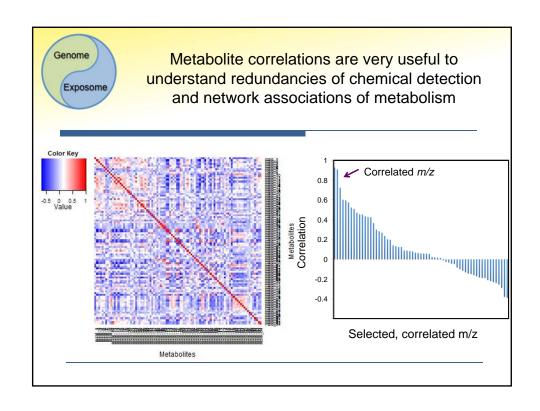
Averages of replicates includes random variation of individual high values but otherwise shows that individuals have relatively consistent total signal.

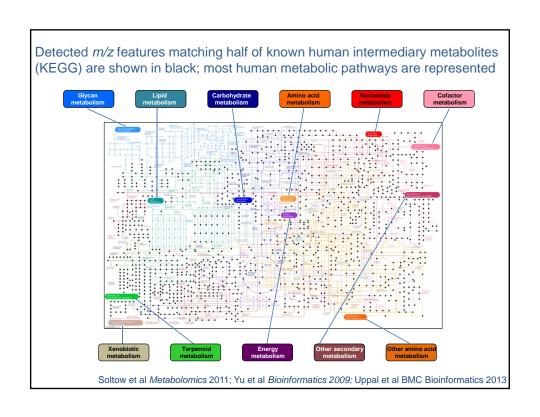
It is not clear whether individuals have differences in total signal due to amount of total metabolites—we concluded in our earlier NMR studies of SAA insufficiency that this occurred, perhaps due to differences in amount of albumin

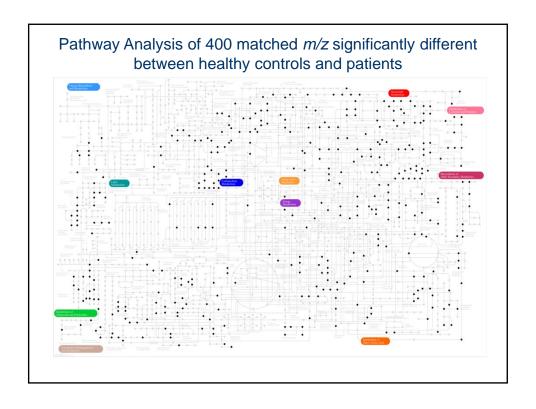
An alternative possibility is that there are specific chemicals in some individuals that have global effects on ionization. This could be NaCl content, phosphate, sulfate, total lipid or other high-abundance chemical. Expectation is that it would be principally impacting the initial (salt) washthrough

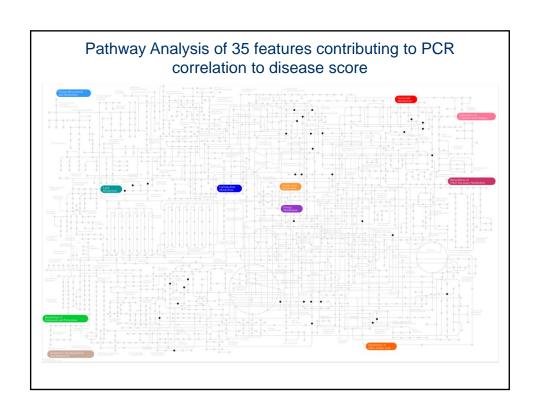


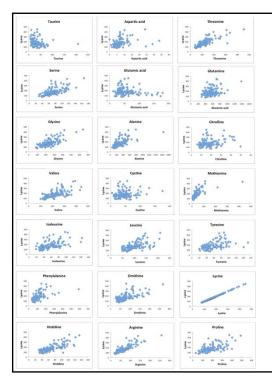






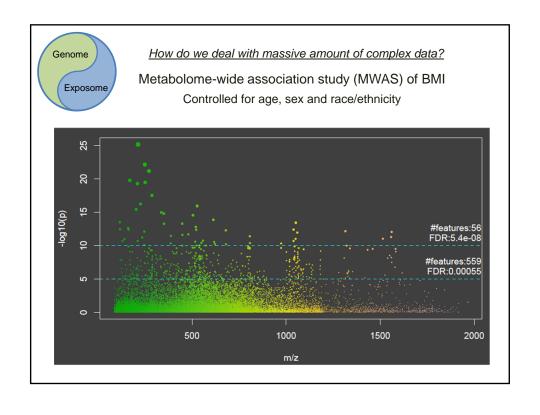


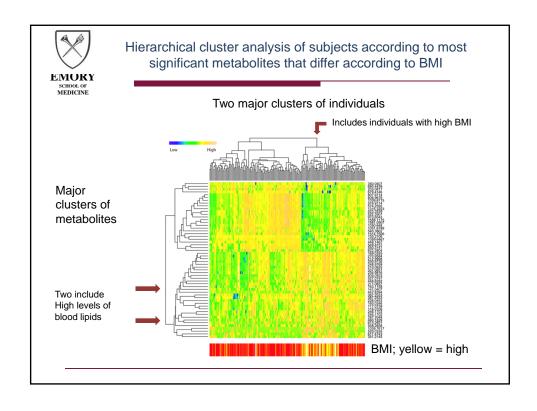


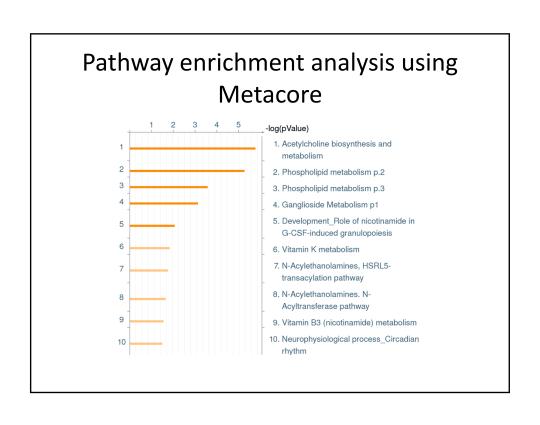


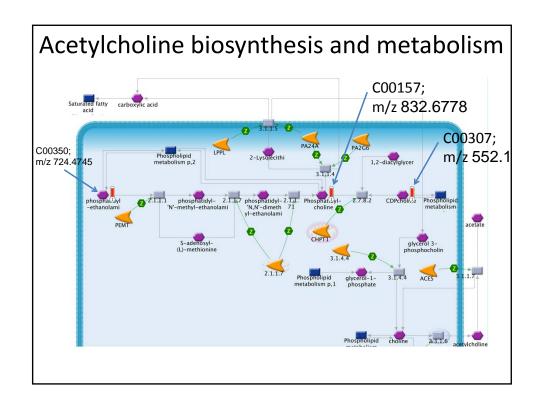
Correlations of amino acids with others that share common transport systems demonstrates principle that related metabolites tend to associate with each other when compared across a set of samples.

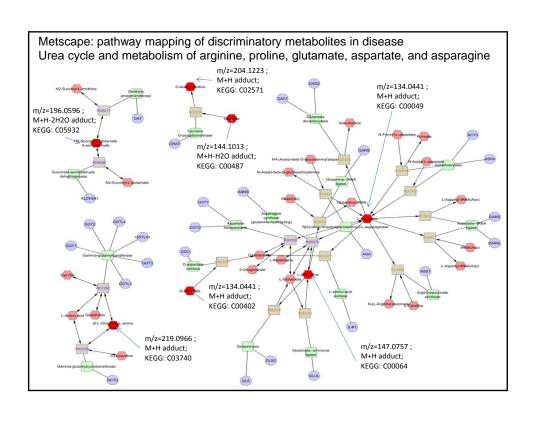
Analyses of clusters of metabolites reveals clusters of lipids, metabolites related by transport systems and common metabolic enzymes, etc.

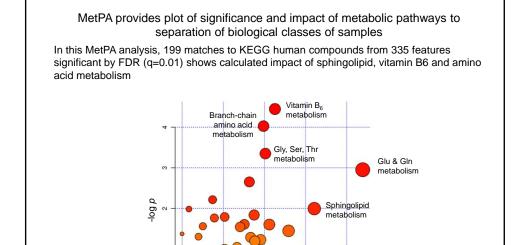












0.2

Pathway Impact

0.3

0.4

