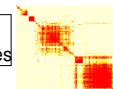


A. Single eigengene network analysis

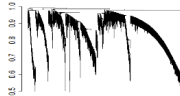
Construct network

Rationale: make use of interaction patterns between genes



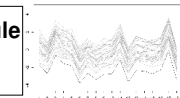
Identify modules

Tools: Hierarchical clustering
Rationale: module- (pathway-) based analysis



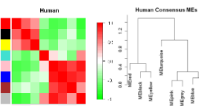
Find one representative for each module

Tools: eigengene (1st Principal Component)
Rationale: Condense each module into one profile



Create network of representatives

Tools: Correlation of eigengenes
Rationale: Study relationships between pathways



B. Differential analysis of eigengene networks.

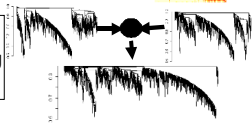
Construct networks for each dataset

Rationale: make use of interaction patterns between genes



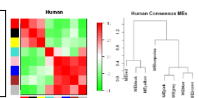
Identify consensus modules

Tools: consensus dissimilarity clustering
Rationale: find preserved modules



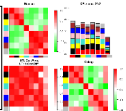
Construct eigengene networks in each dataset

Tools: eigengene as module representative
Rationale: quantify relationships *between* pathways

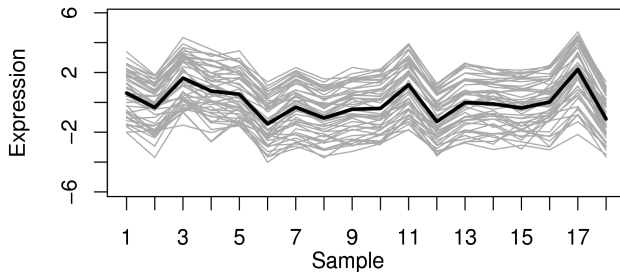


Compare eigengene networks across sets

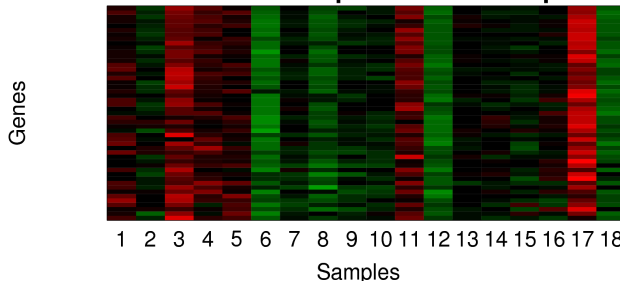
Tools: Measures of correlation preservation
Rationale: understand which biological conditions affect the relationships between modules



C. Expression levels of genes and eigengene



D. Module expression heatmap



E. Eigengene Expression

