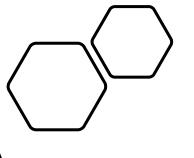
# Bioinformatic Analysis CD151, EW12, TSPAN8

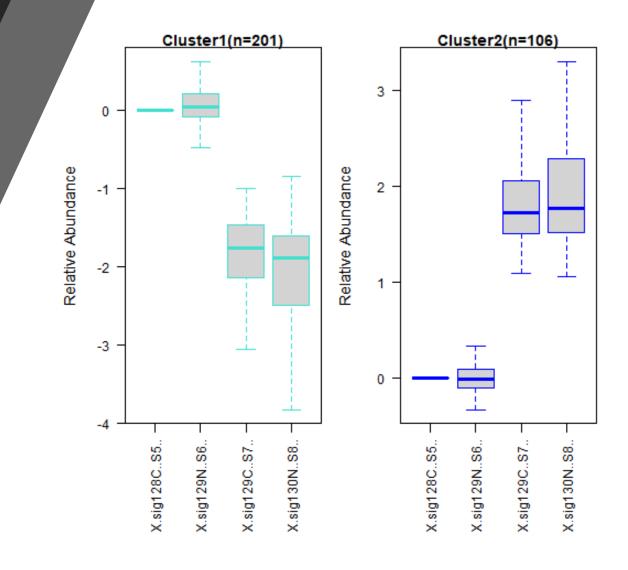


David R Vanderwall

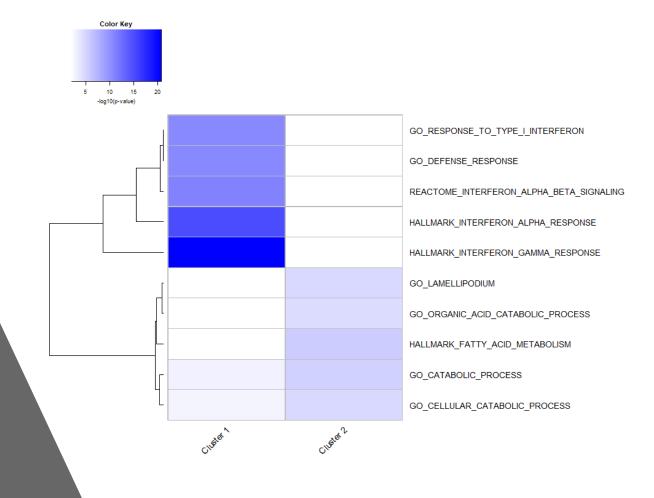


# WGCNA Co-Expression Clustering

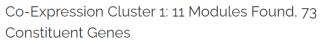
Upregulated and Downregulated Clusters identified

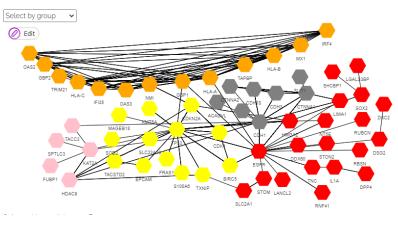


Cluster Pathway Analysis

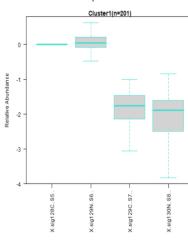


# PPI Modularization of Downregulated Cluster





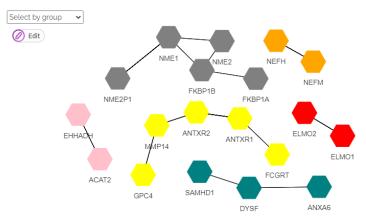
#### Cluster 1 Boxplot Trend

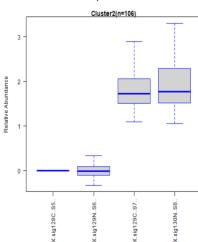


### PPI Modularization of Upregulated Cluster

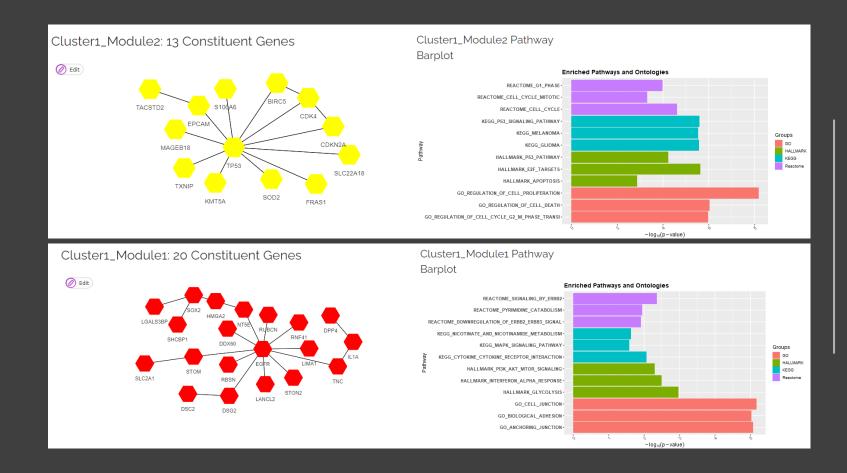
Co-Expression Cluster 2: 6 Modules Found, 19 Constituent Cluster 2 Boxplot Trend

Genes

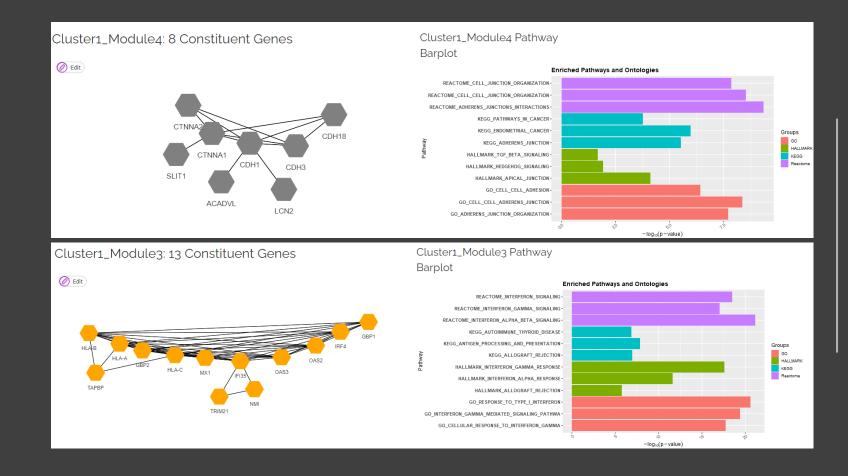




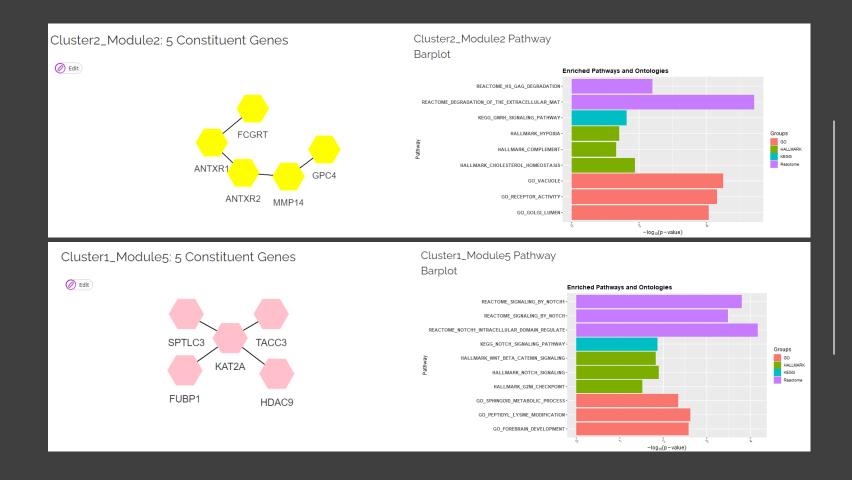
Salact a Natwork Lavout Format



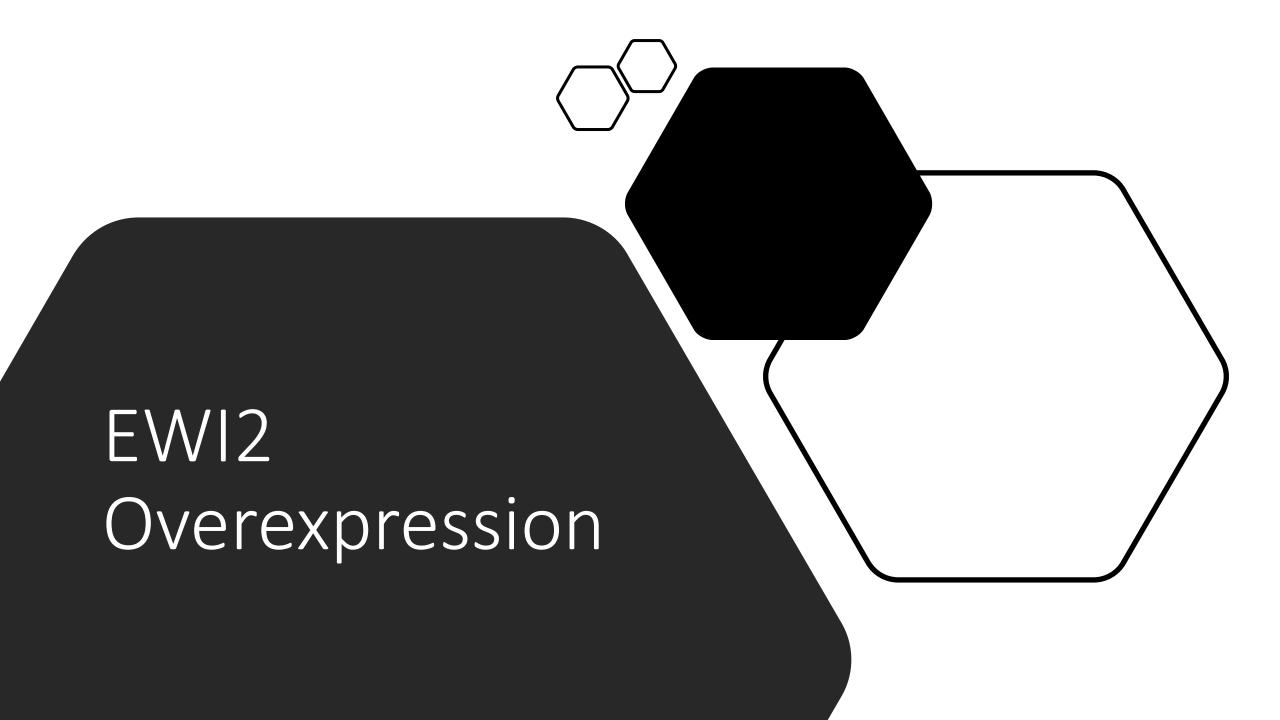
# Pathway Analysis Part



# Pathway Analysis Part II

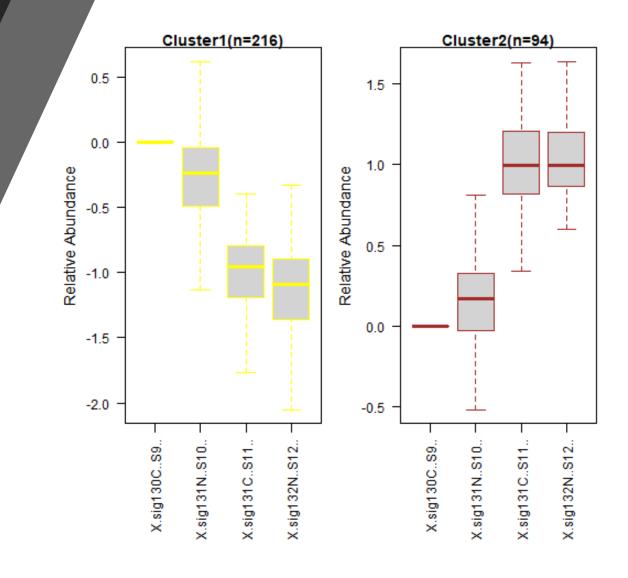


# Pathway Analysis Part III

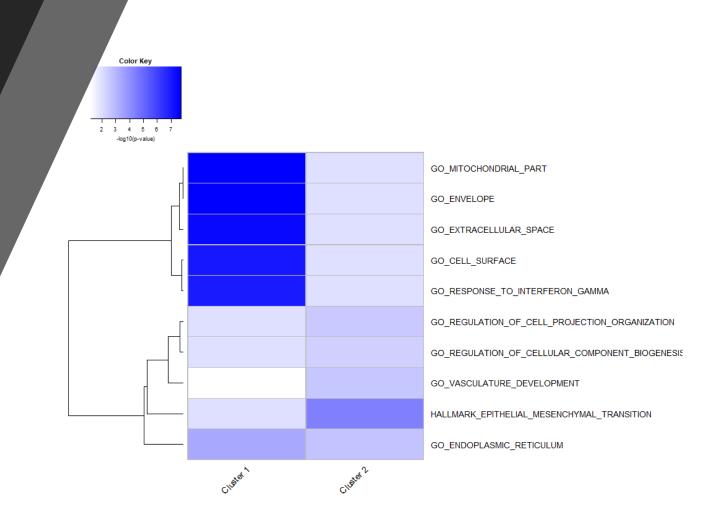


# WGCNA Co-Expression Clustering

Upregulated and Downregulated Clusters identified

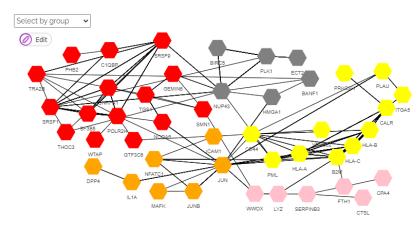


# Cluster Pathway Analysis

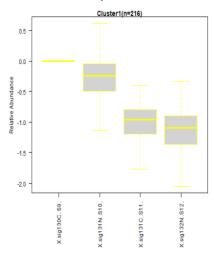


### PPI Modularization of Downregulated Cluster

### Co-Expression Cluster 1: 13 Modules Found, 68 Constituent Genes

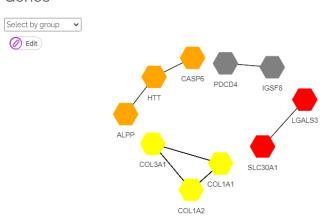


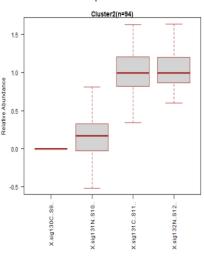
#### Cluster 1 Boxplot Trend

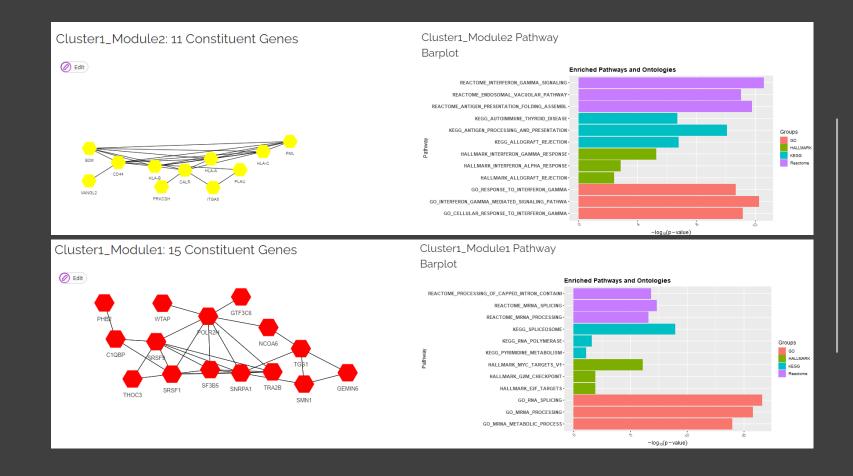


### PPI Modularization of Upregulated Cluster

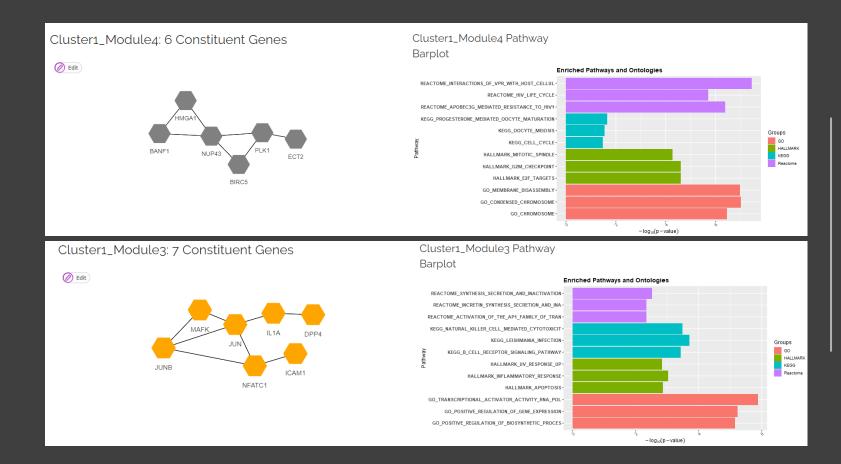
Co-Expression Cluster 2: 4 Modules Found, 10 Constituent Cluster 2 Boxplot Trend Genes



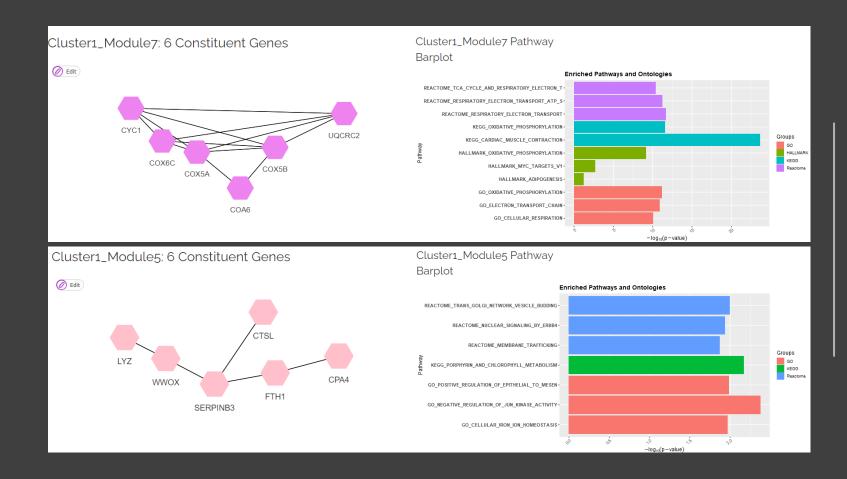




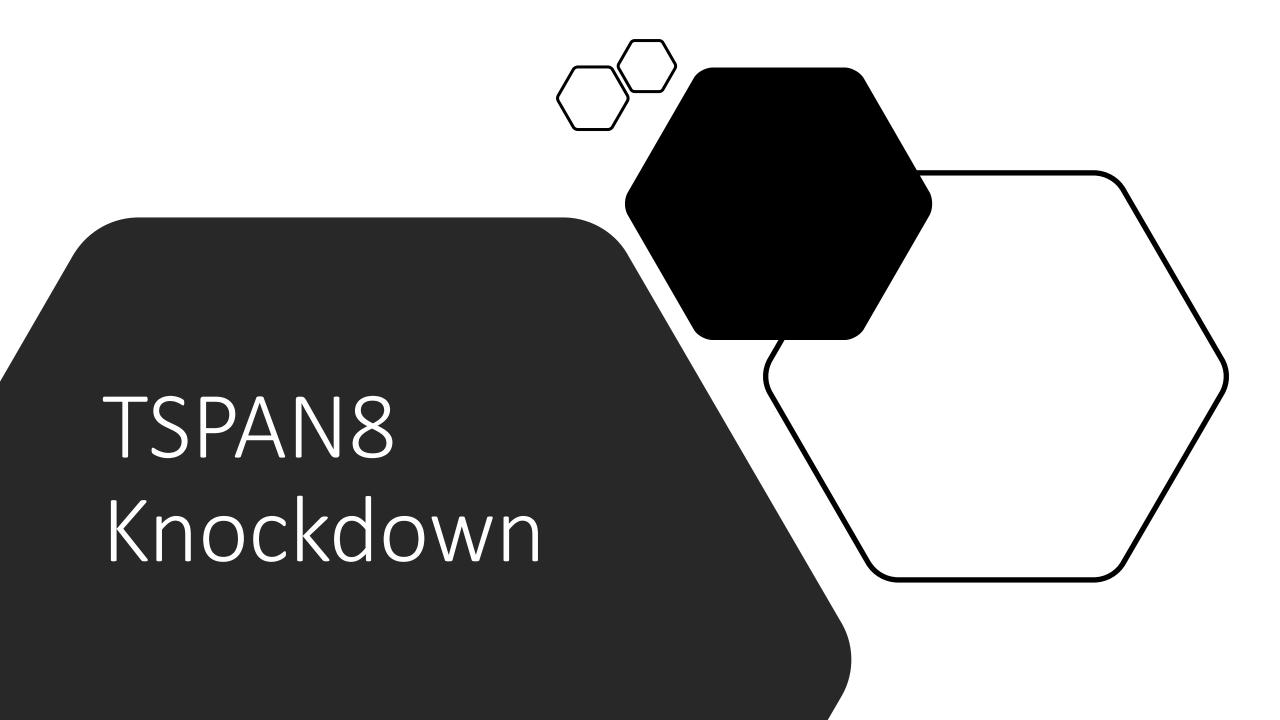
# Pathway Analysis Part



# Pathway Analysis Part II

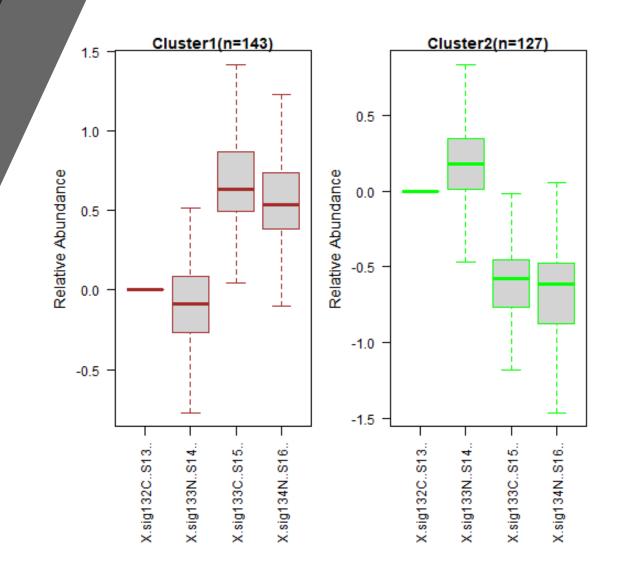


# Pathway Analysis Part III

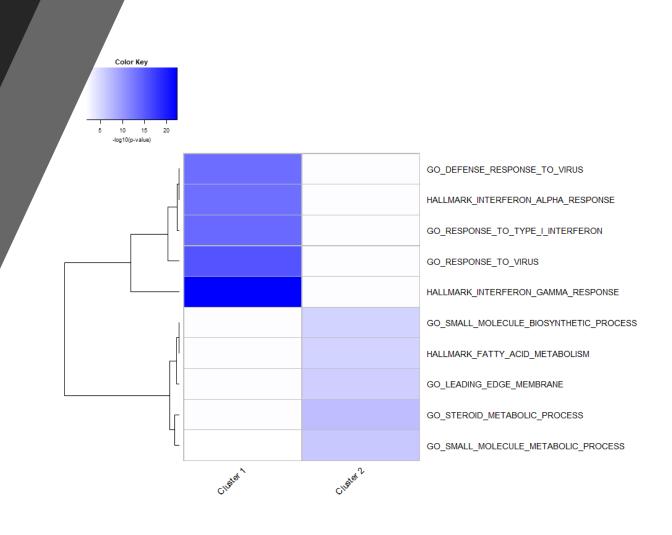


# WGCNA Co-Expression Clustering

Upregulated and Downregulated Clusters identified

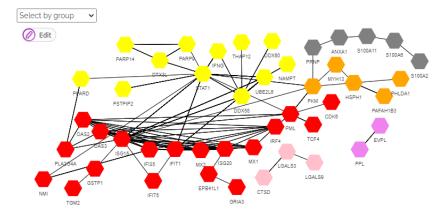


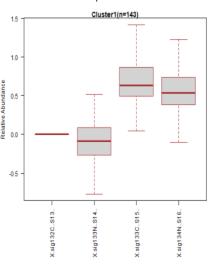
# Cluster Pathway Analysis



### PPI Modularization of Upregulated Cluster

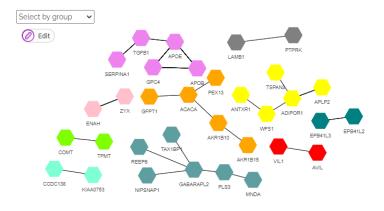
Co-Expression Cluster 1: 7 Modules Found, 48 Constituent Cluster 1 Boxplot Trend Genes



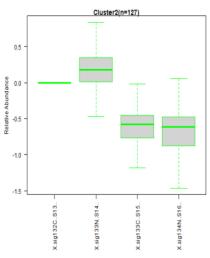


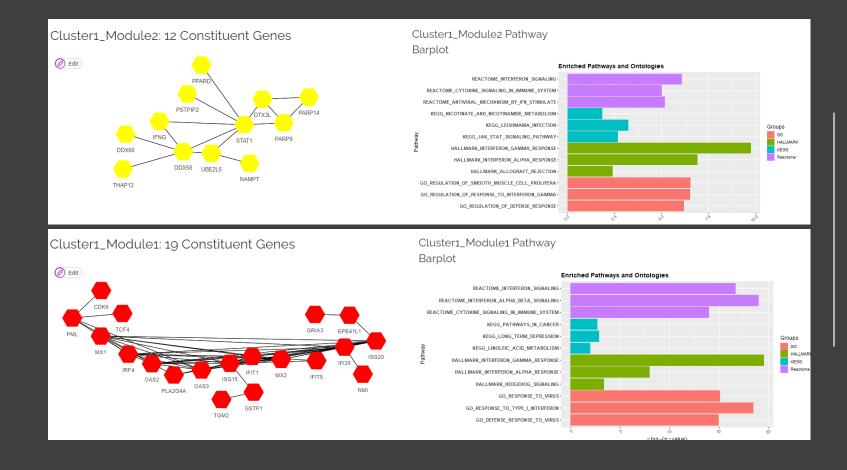
### PPI Modularization of Downregulated Cluster

#### Co-Expression Cluster 2: 10 Modules Found, 33 Constituent Genes

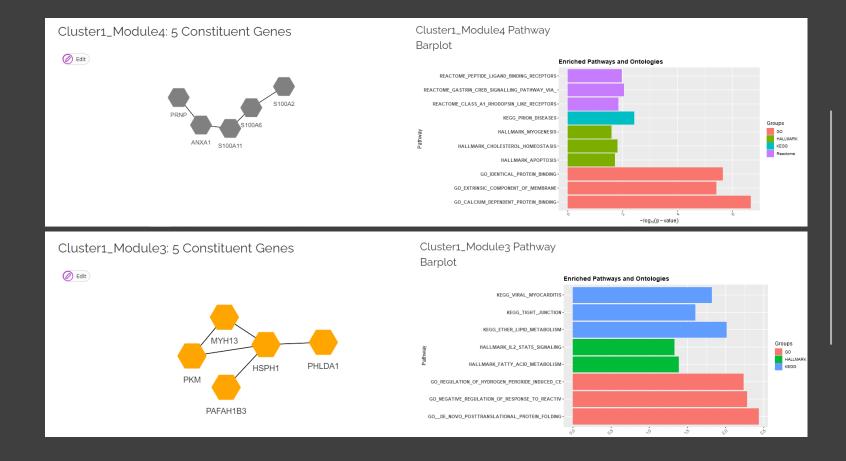


#### Cluster 2 Boxplot Trend

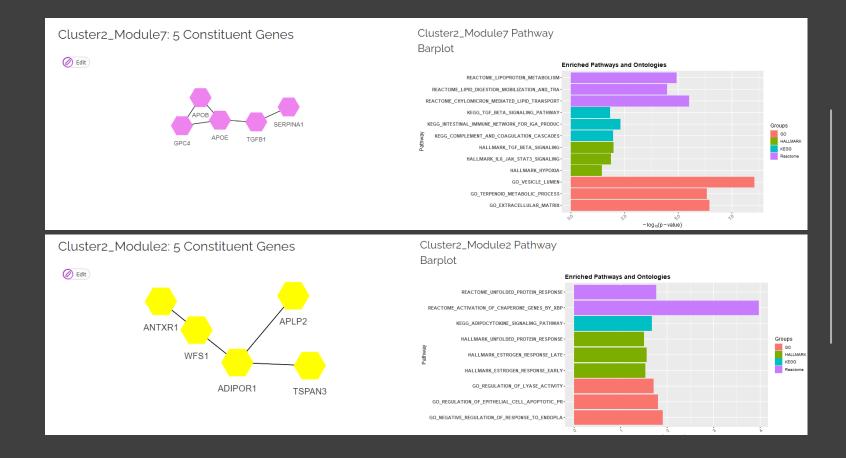




# Pathway Analysis Part



# Pathway Analysis Part II

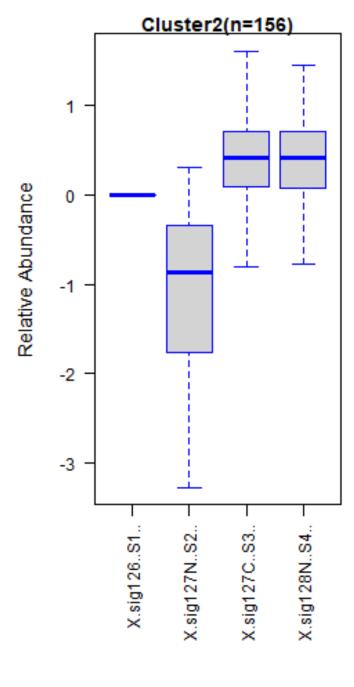


# Pathway Analysis Part III

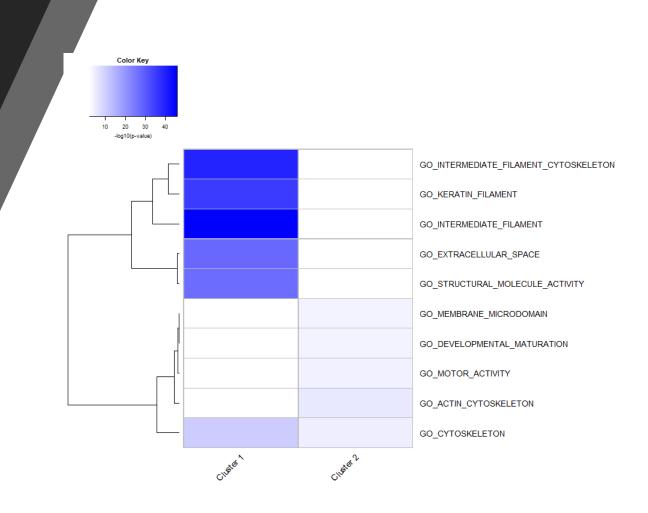


# WGCNA Co-Expression Clustering

Upregulated and Downregulated Clusters identified

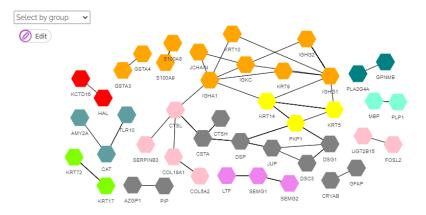


# Cluster Pathway Analysis

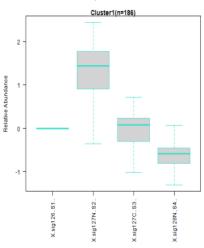


### PPI Modularization of Downregulated Cluster

### Co-Expression Cluster 1: 15 Modules Found, 44 Constituent Genes

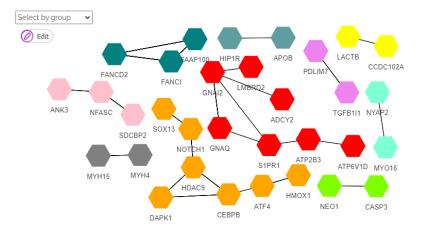


#### Cluster 1 Boxplot Trend

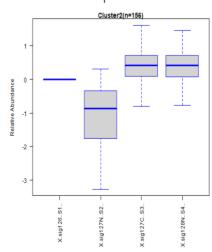


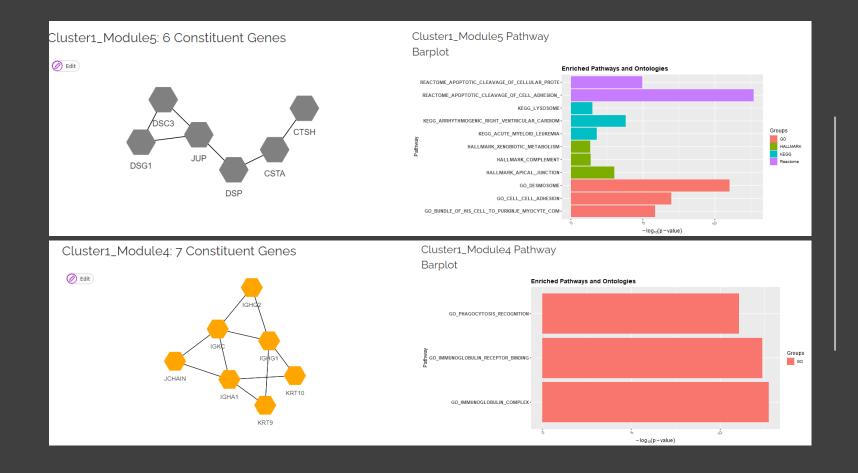
# PPI Modularization of Upregulated Cluster

### Co-Expression Cluster 2: 10 Modules Found, 32 Constituent Genes

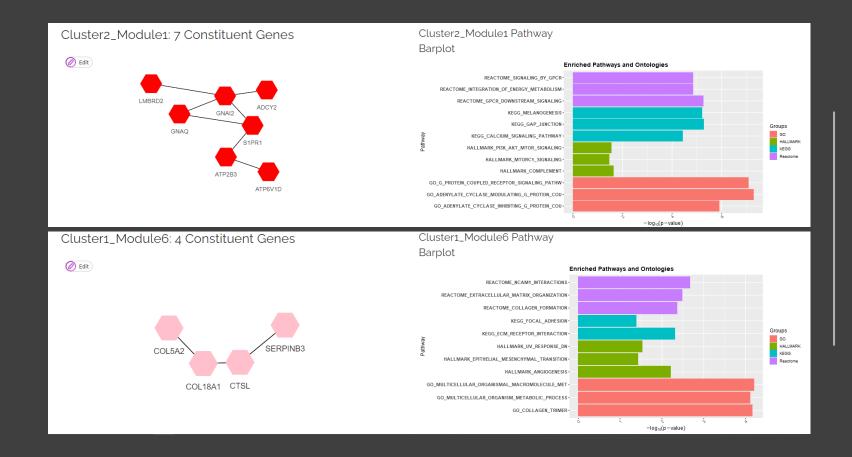


#### Cluster 2 Boxplot Trend

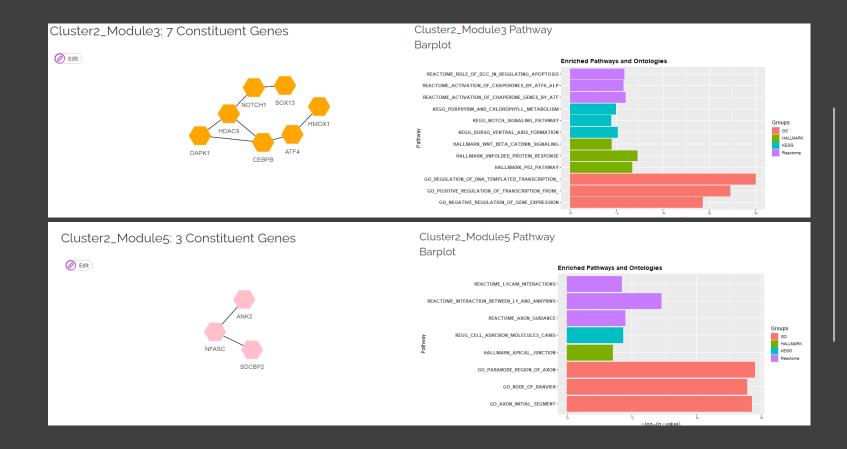




# Pathway Analysis Part I



# Pathway Analysis Part II



# Pathway Analysis Part III