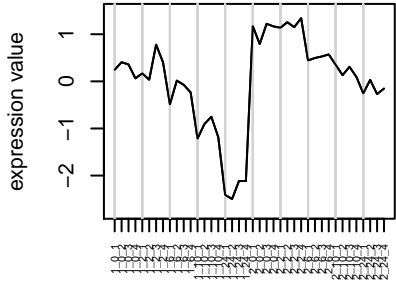
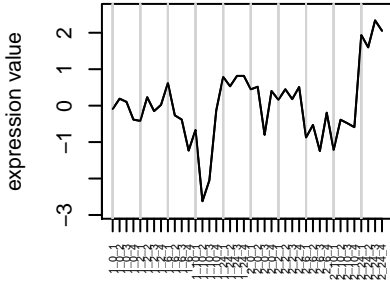


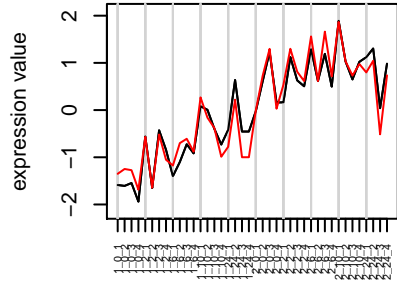
Cluster 1 (1 genes) Carnitine



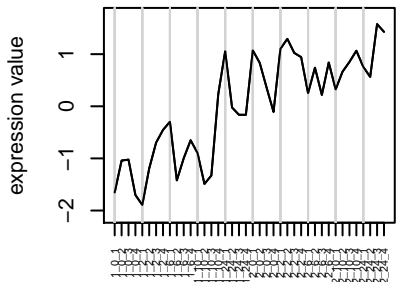
Cluster 2 (1 genes) Citric acid



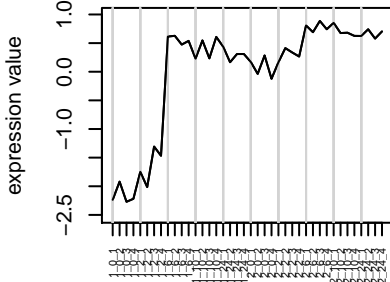
Cluster 3 (2 genes)



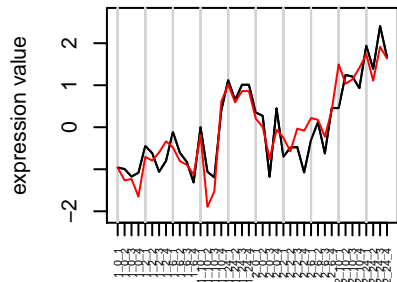
Cluster 4 (1 genes) GSH



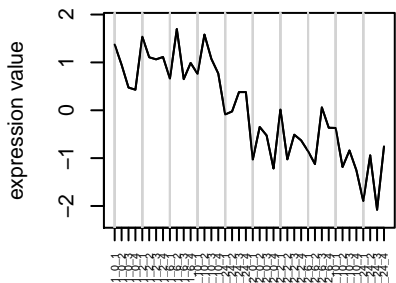
Cluster 5 (1 genes) Itaconic aci



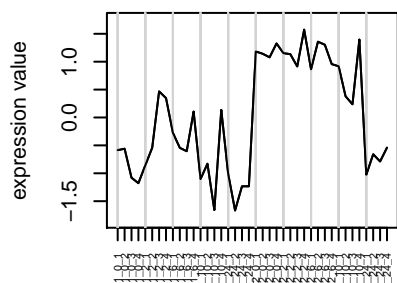
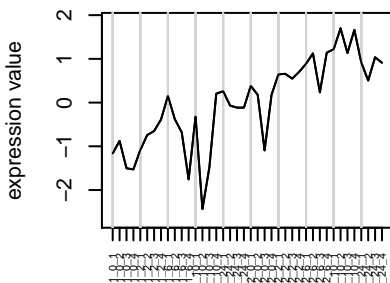
Cluster 6 (2 genes)

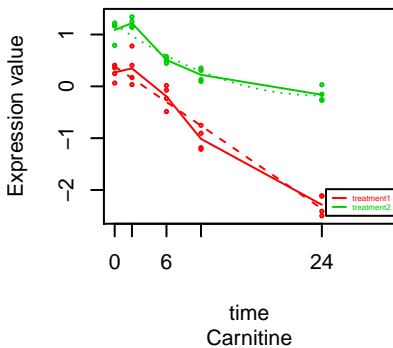
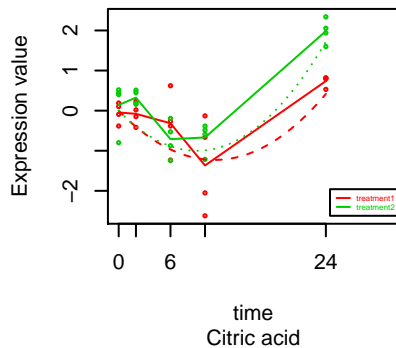
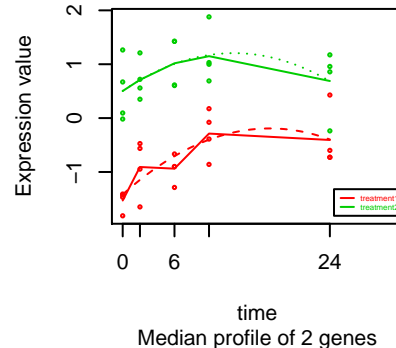
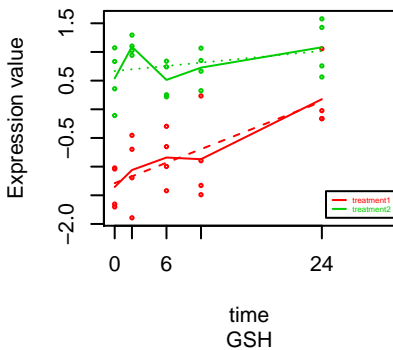
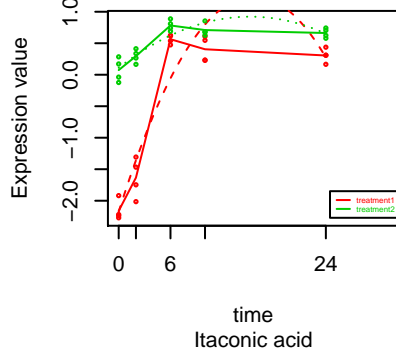
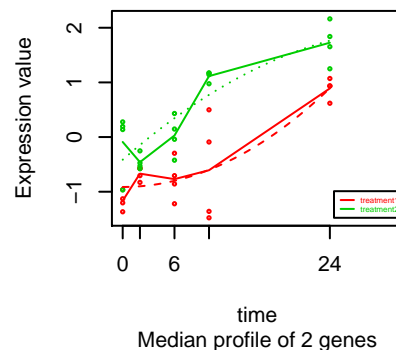
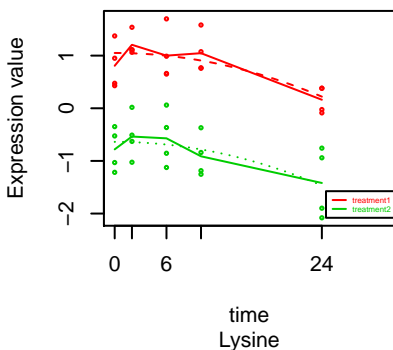
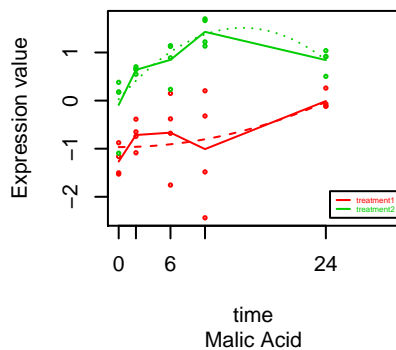
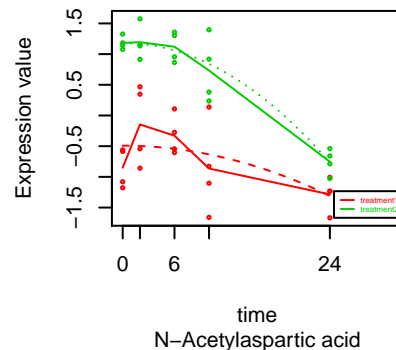


Cluster 7 (1 genes) Lysine

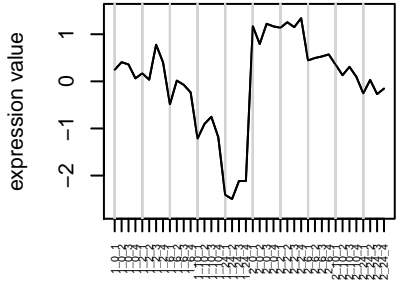


Cluster 8 (1 genes) Malic Acidcluster 9 (1 genes) N-Acetylaspartic

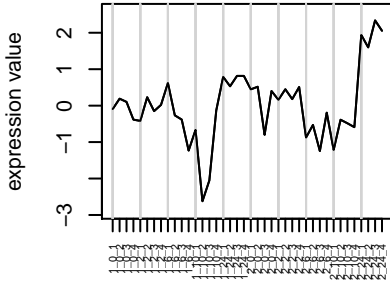


Cluster 1**Cluster 2****Cluster 3****Cluster 4****Cluster 5****Cluster 6****Cluster 7****Cluster 8****Cluster 9**

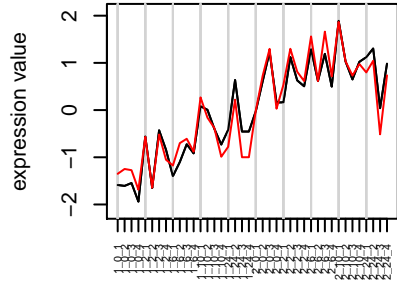
Cluster 1 (1 genes) Carnitine



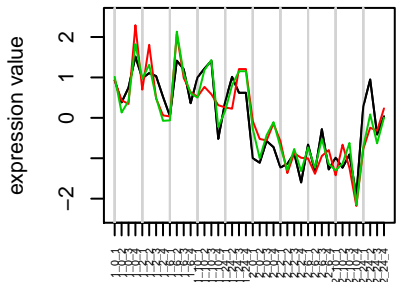
Cluster 2 (1 genes) Citric acid



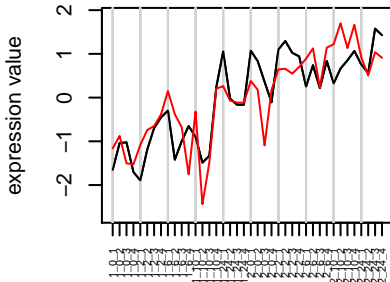
Cluster 3 (2 genes)



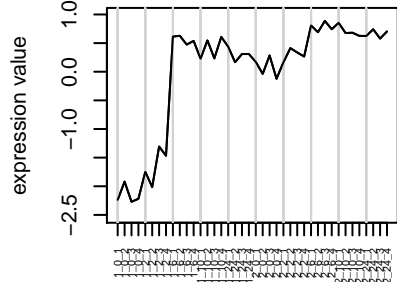
Cluster 4 (3 genes)



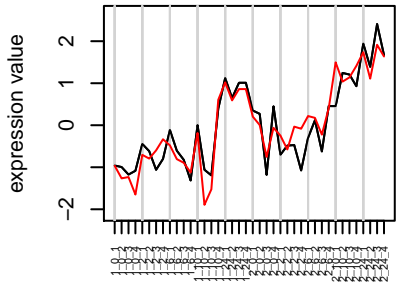
Cluster 5 (2 genes)



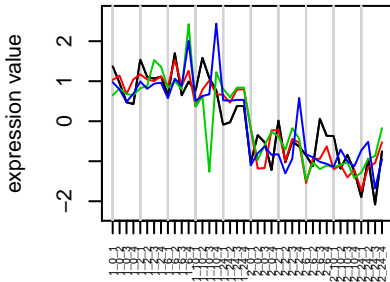
Cluster 6 (1 genes) Itaconic acid



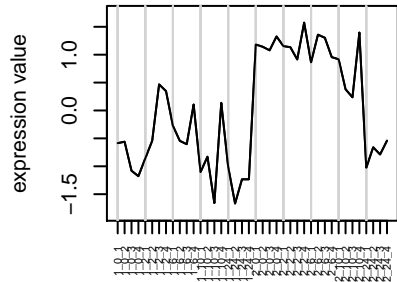
Cluster 7 (2 genes)

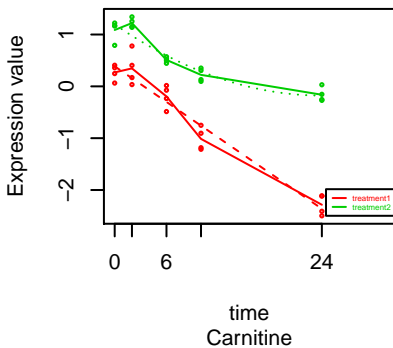
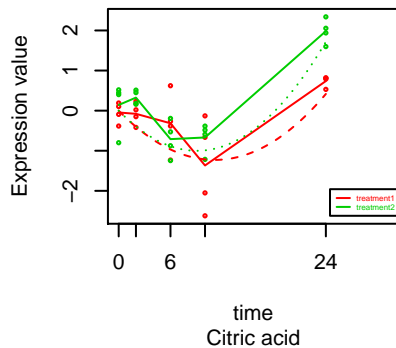
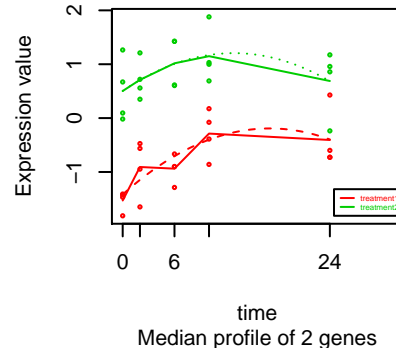
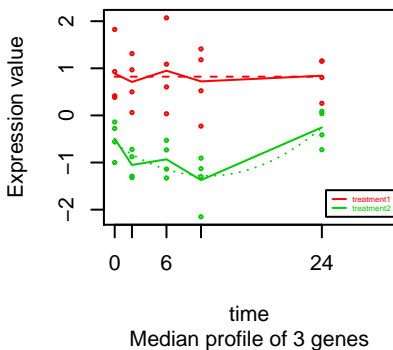
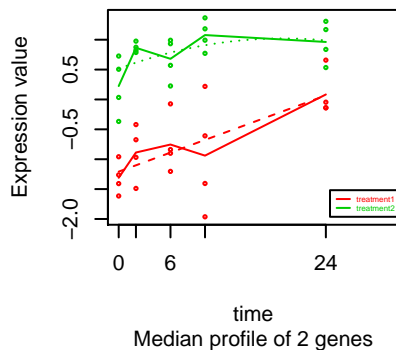
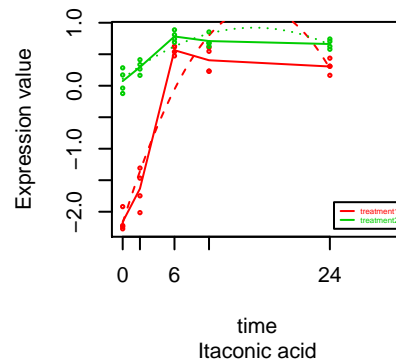
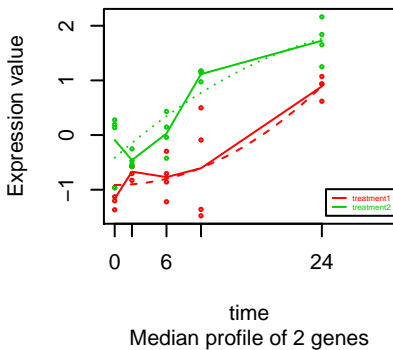
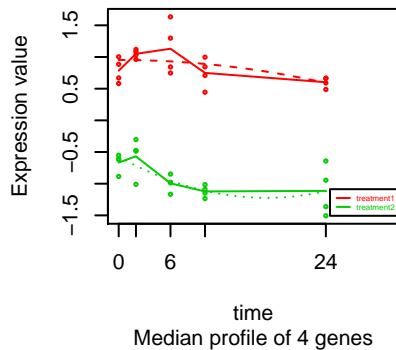


Cluster 8 (4 genes)



Cluster 9 (1 genes) N-Acetylaspartic acid



Cluster 1**Cluster 2****Cluster 3****Cluster 4****Cluster 5****Cluster 6****Cluster 7****Cluster 8****Cluster 9**