Clusters of Protein Sets

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```
table1 <- read.csv("table1.csv", header=T, stringsAsFactors = F)</pre>
cluster1 \leftarrow c(4,9,14,33,41,42,43,45,46,47,6,8,15,16,18,23,25,28,29,35,37,38,40,44,49,5)
cluster2 \leftarrow c(1,24,26,32,11,20,48,50,10,21,22,27)
cluster3 \leftarrow c(36,39,7,30,31,34,2,3,12,13,17,19)
cluster3star \leftarrow c(36,39,7,30,31,34,2,12,13,17,19)
col.all <- c("BPmax", "R", "B", "Y", "Cliq", "Clust", "CCmax", "MFmax", "BP10", "CC10", "MF10")
c1 <- c(mean(table1$BPmax[cluster1]), mean(table1$R[cluster1]), mean(table1$B[cluster1]),</pre>
        mean(table1$Y[cluster1]), mean(table1$Cliq[cluster1]), mean(table1$Clust[cluster1]),
        mean(table1$CCmax[cluster1]), mean(table1$MFmax[cluster1]),
        mean(table1$BP10[cluster1]), mean(table1$CC10[cluster1]), mean(table1$MF10[cluster1]))
c2 <- c(mean(table1$BPmax[cluster2]), mean(table1$R[cluster2]), mean(table1$B[cluster2]),
        mean(table1$Y[cluster2]), mean(table1$Cliq[cluster2]), mean(table1$Clust[cluster2]),
        mean(table1$CCmax[cluster2]), mean(table1$MFmax[cluster2]),
        mean(table1$BP10[cluster2]), mean(table1$CC10[cluster2]), mean(table1$MF10[cluster2]))
c3 <- c(mean(table1$BPmax[cluster3]), mean(table1$R[cluster3]), mean(table1$B[cluster3]),
        mean(table1$Y[cluster3]), mean(table1$Cliq[cluster3]), mean(table1$Clust[cluster3]),
        mean(table1$CCmax[cluster3]), mean(table1$MFmax[cluster3]),
        mean(table1$BP10[cluster3]), mean(table1$CC10[cluster3]), mean(table1$MF10[cluster3]))
c3s<- c(mean(table1$BPmax[cluster3star]), mean(table1$R[cluster3star]), mean(table1$B[cluster3star]),
        mean(table1$Y[cluster3star]), mean(table1$Cliq[cluster3star]), mean(table1$Clust[cluster3star])
        mean(table1$CCmax[cluster3star]), mean(table1$MFmax[cluster3star]),
        mean(table1$BP10[cluster3star]), mean(table1$CC10[cluster3star]), mean(table1$MF10[cluster3star]
table2 <- rbind(c1,c2,c3,c3s)</pre>
colnames(table2) <- col.all</pre>
rownames(table2) <- c("Cluster1", "Cluster2", "Cluster3", "Cluster3s")</pre>
round(table2,1)
                                 Y Cliq Clust CCmax MFmax BP10 CC10 MF10
##
                            В
              40.4 59.8 211.7 15.6 7.3 72.5
                                               31.8
                                                           7.3
## Cluster1
                                                      34.5
              34.3 48.3 48.2 9.3 9.4 107.8 30.8 33.6 7.0
## Cluster2
                                                                 6.9 5.0
## Cluster3
              54.1 70.6 35.6 16.2 15.8 133.4 47.7 43.4 7.8 8.1 6.8
## Cluster3s 57.7 74.5 38.6 17.7 16.9 142.0 51.1 46.2 8.5 8.2 7.2
write.csv(round(table2,1), file="table2.csv")
```