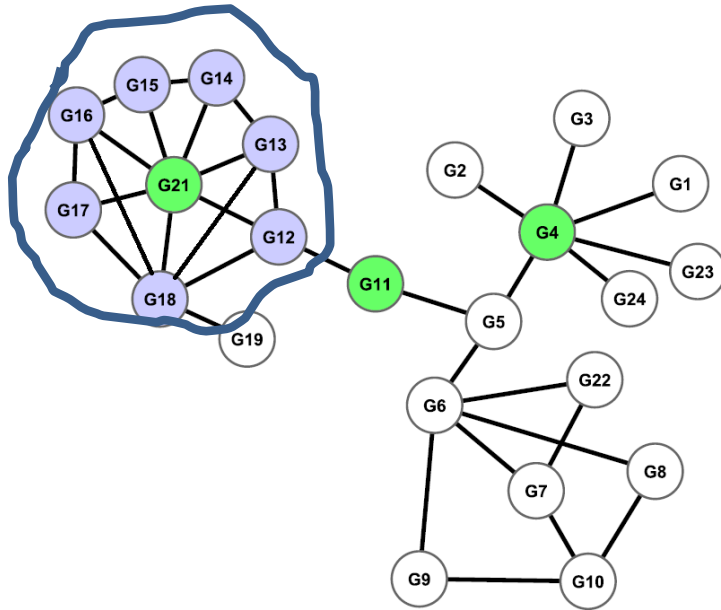


A Local dense subnetwork
High clustering coefficient (G21)

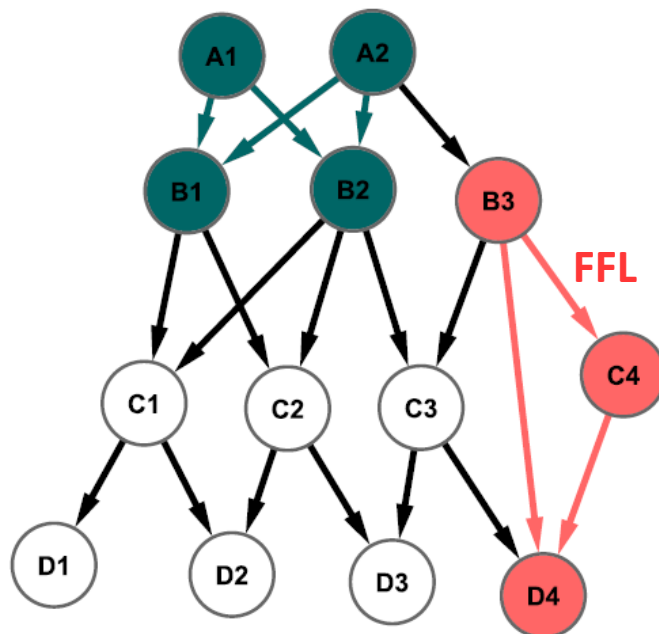


G21: high connectivity
high clustering coefficient

G4: high connectivity
low clustering coefficient

G11: low connectivity
high betweenness

B bi-fan motif

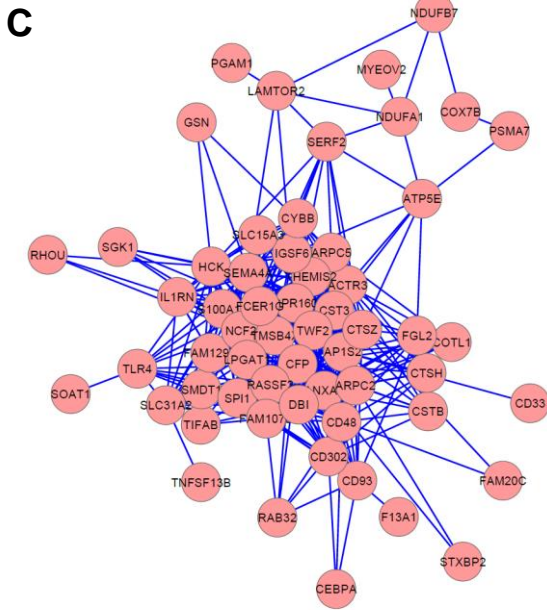
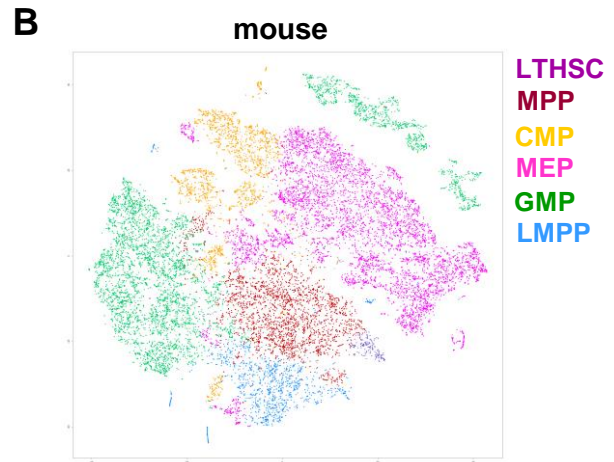
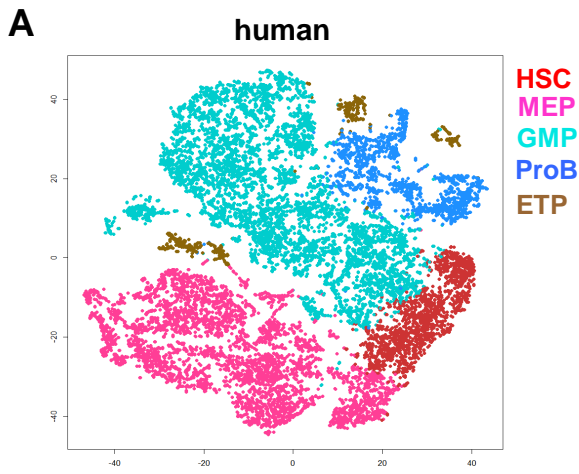


Level 4 (top level)

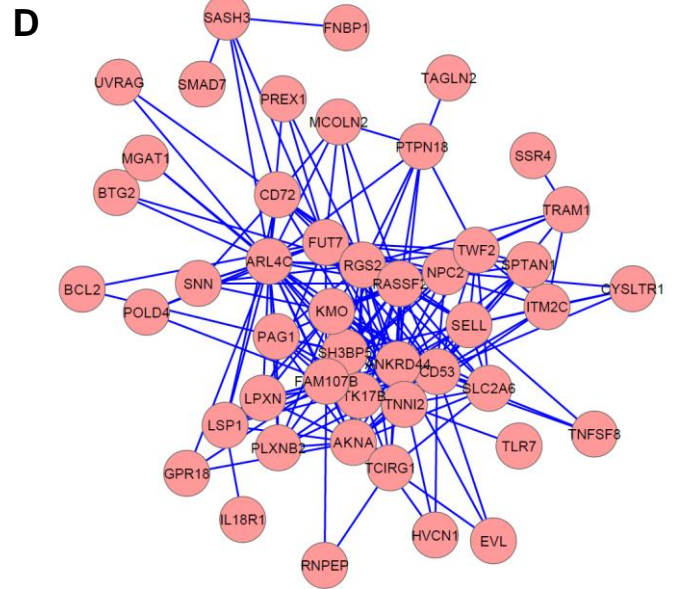
Level 3
Level 2 } middle level

Level 1 (bottom level)

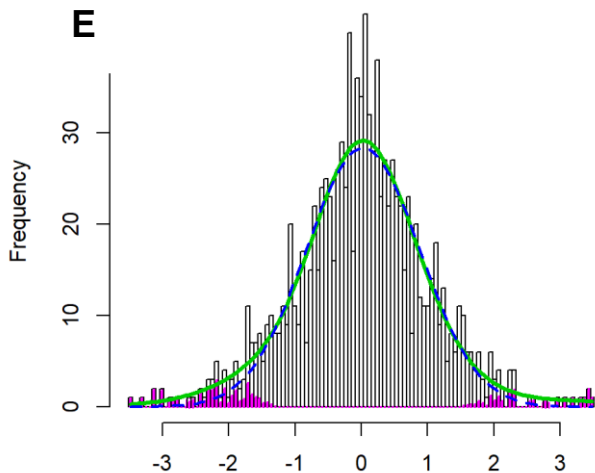
C1 regulates two genes (D1, D2), and D2 is co-regulated. Its collaboration score is $\frac{1}{2}=0.5$.



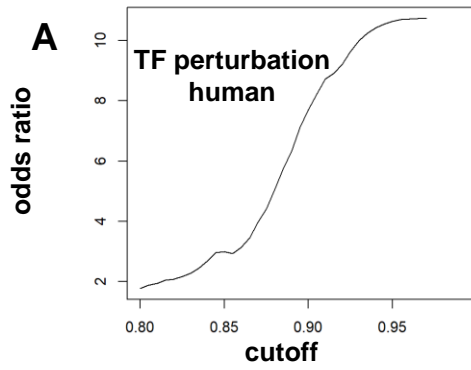
LMPPProB subnetwork



GMP subnetwork



Histogram of Differential Degree



$$\text{odds ratio} = \frac{(\text{fraction of gene pairs} > \text{corr})}{(\text{fraction of random pairs} > \text{corr})}$$

