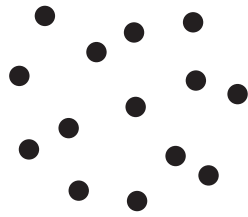


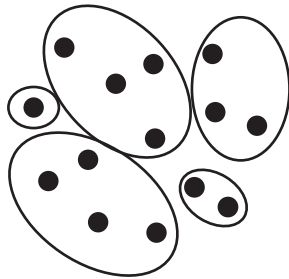
A



Constructing phylogenetic profiles of enzymes.



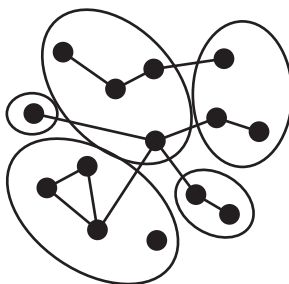
B



Complete linkage clustering analysis using the Jaccard coefficient as the similarity between phylogenetic profiles.



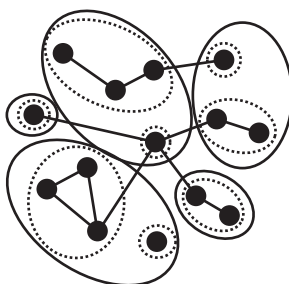
C



Superimposing enzyme connectivity in the metabolic network.



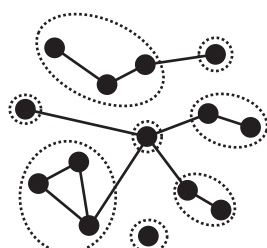
D



Re-clustering in each cluster according to enzyme connectivity. Extraction of “phylogenetic network modules.”



E



Constructing the network of the “phylogenetic network modules”