Bioinformatics – Lecture Notes

Announcements

Class 14 – February 19, 2002 -

- 1. Evolutionary Problems
 - i) Markov Processes (text p 140-144) Finish determination of substitution matrix for nucleotides.
 - ii) Clustering Methods How do we determine the best fit phylogenetic data?

Cannot determine the minimum number of mutations for all possible tree topologies having n leaves since the number of binary trees is exponential. Instead we will use some concepts from graph theory

- a) ultrameric trees
- b) additive metric
- c) estimating branch lengths