

Name _____

Pre-Lab: Molecular Phylogeny

1) You will be looking at variation in the amino acid sequence of the protein cytochrome c. Look up cytochrome c in *Campbell*. In which biochemical pathway does cytochrome c participate? Briefly describe the role of cytochrome c in this pathway.

2) Given the following data for organisms alive today:

Pair	# of differences
A-B	20
B-C	20
A-C	4

Draw a phylogenetic tree relating organisms A, B, and C. Show the relative distances between organisms. See pages MolPhyl-6 and -7 for an example.

3) A whale is a mammal, not a fish. Based on this, where would you expect to find the whale on the following phylogenetic tree? Circle your answer.



