Beta Diversity

- Beta diversity measures the diversity between samples.
- The distance between each pair of samples (with respect to community composition) is calculated.
- Read depth is important here also, so rarefaction is performed
- There are many ways to calculate beta diversity;
 we will use one: UniFrac

Beta Diversity: UniFrac

- 1. Make a phylogenetic tree including all sequences
- 2. Label each terminal node with sample (Red, Yellow, Blue).
- 3. Branches that lead to sequences from more than one sample are shared (grey)
- 4. Distance = unique branch length / total branch length

