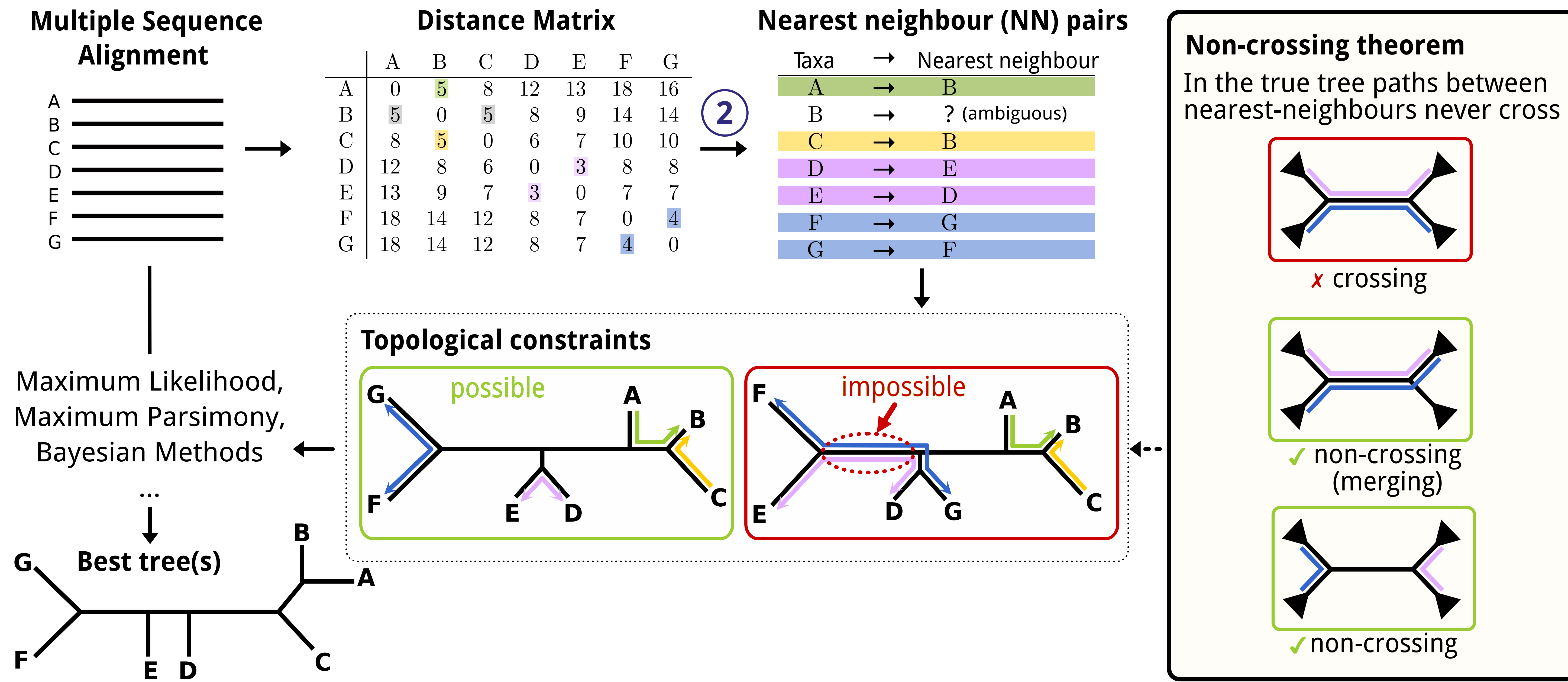
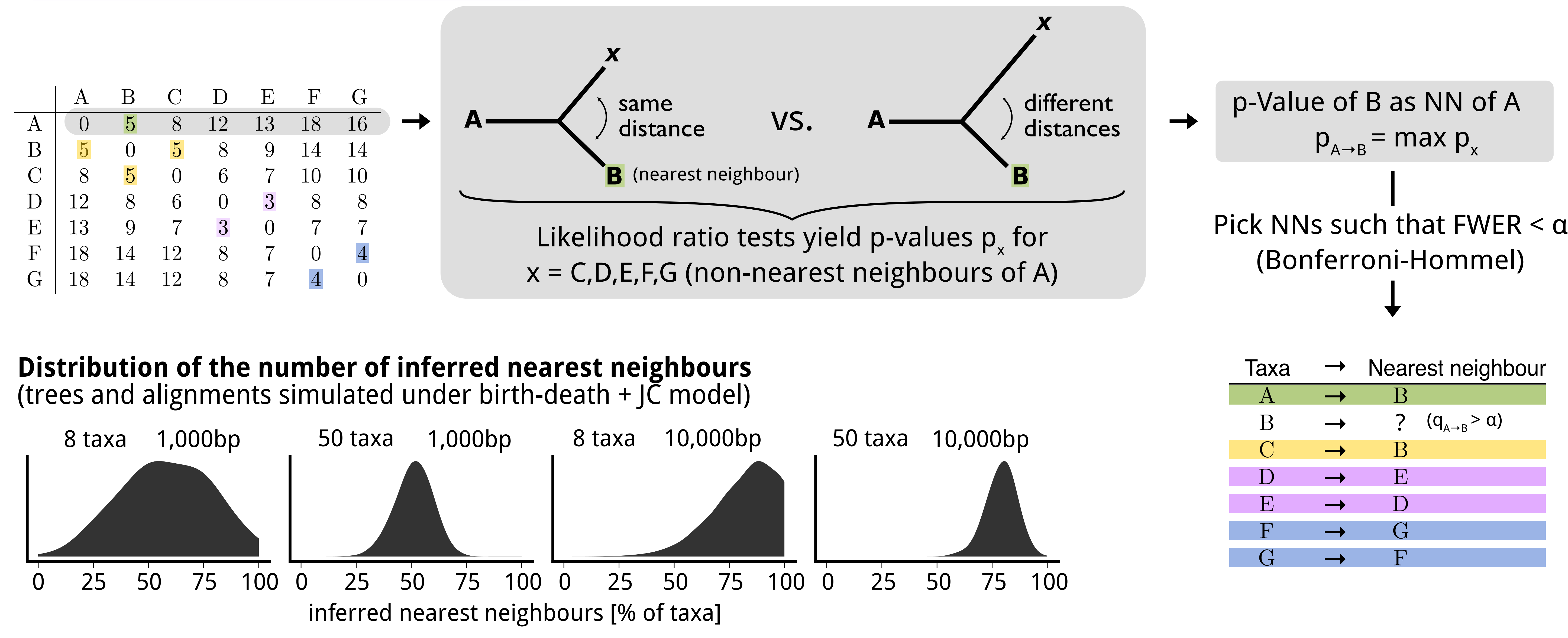


1. Nearest neighbours induce topological constraints

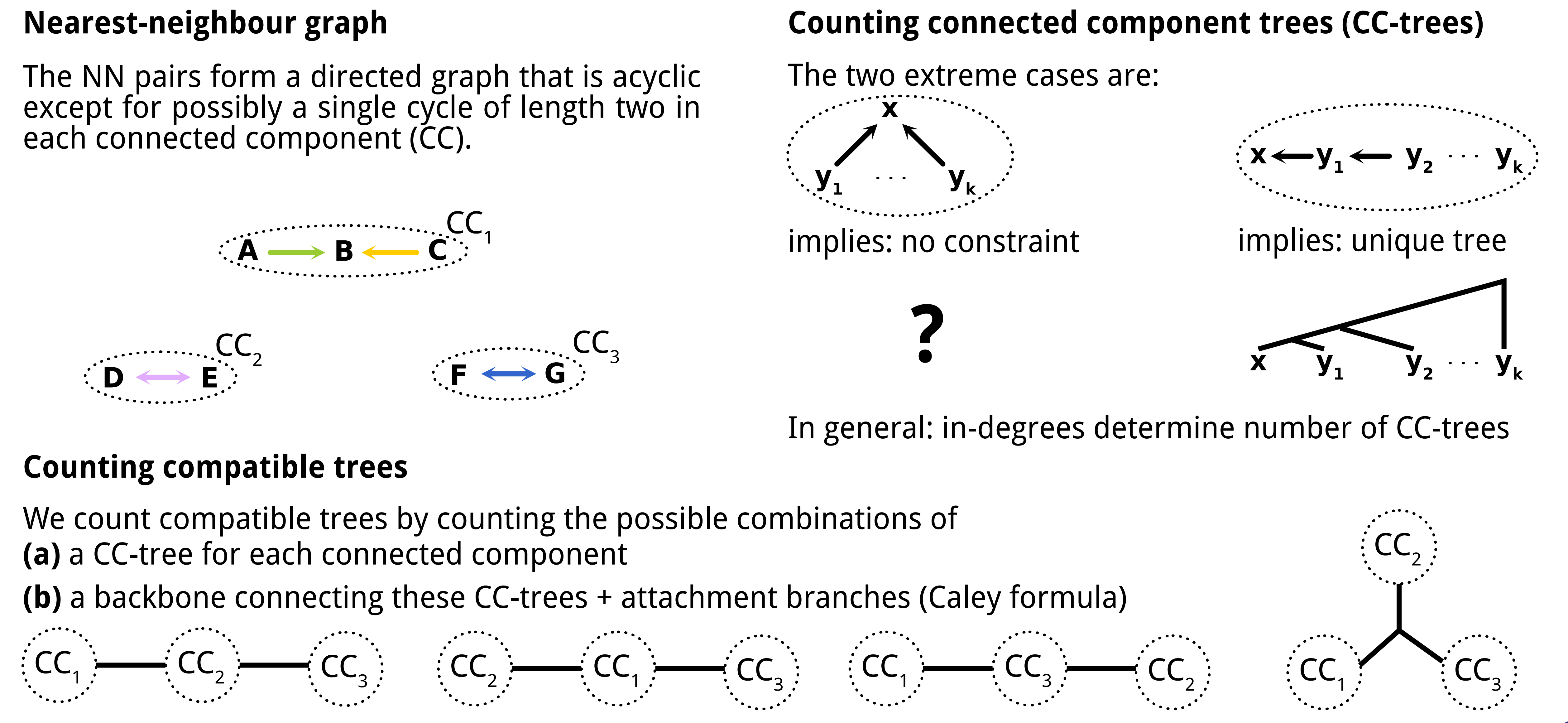
The set of nearest neighbours (NNs) inferred from the distance matrix constrains the topology of the (true) tree. Exploiting these constraints during tree-search reduces the size of the tree-space that has to be searched.



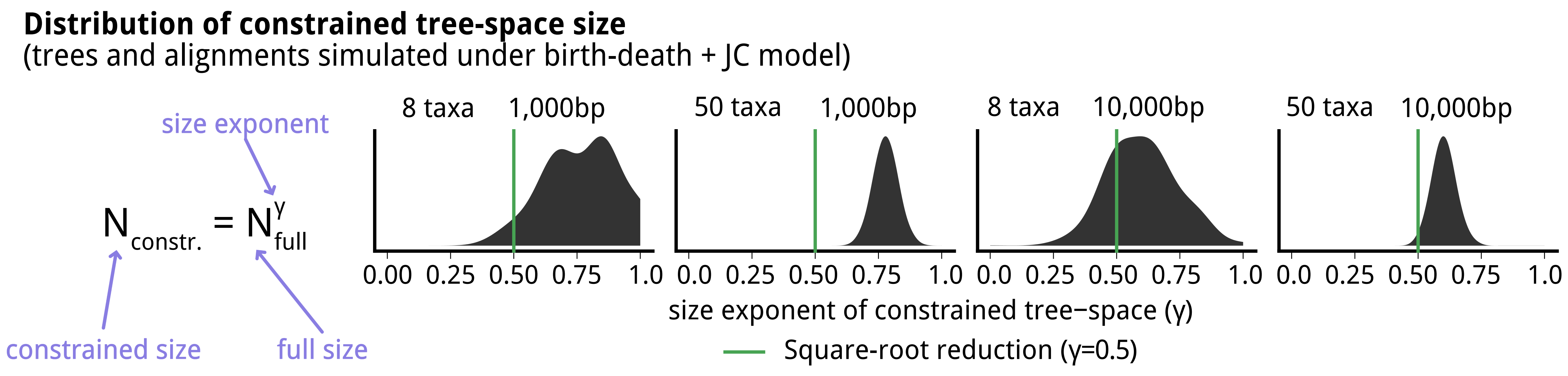
2. Inferring nearest neighbours



3. Computing the size of the constrained tree-space



4. Quantifying the possible performance benefits



5. Efficiently searching the constrained tree-space

