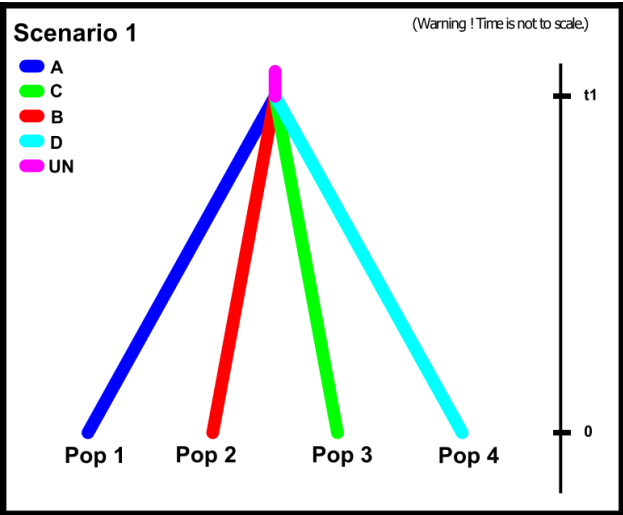
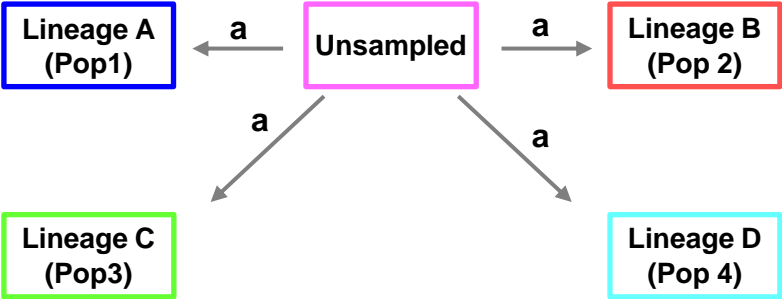
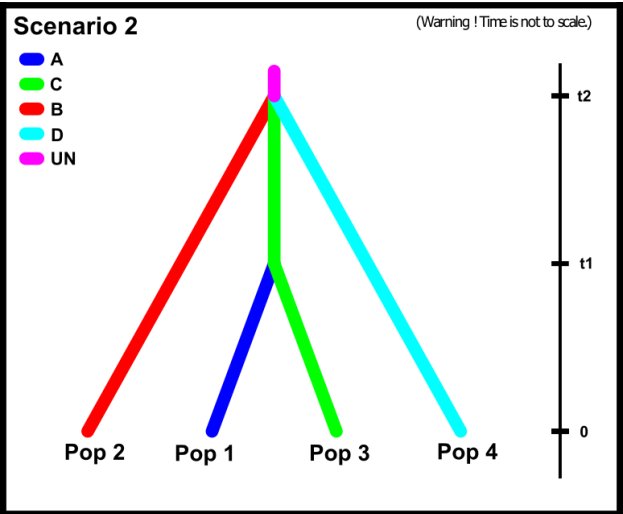
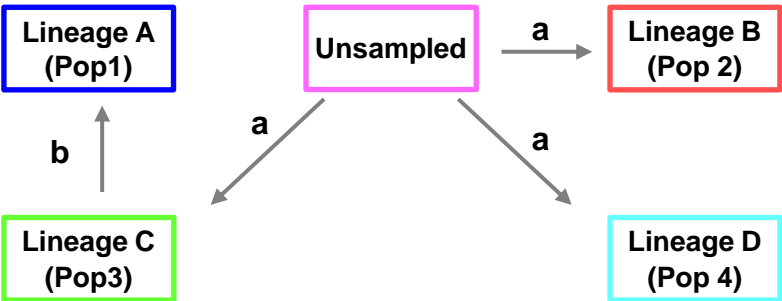


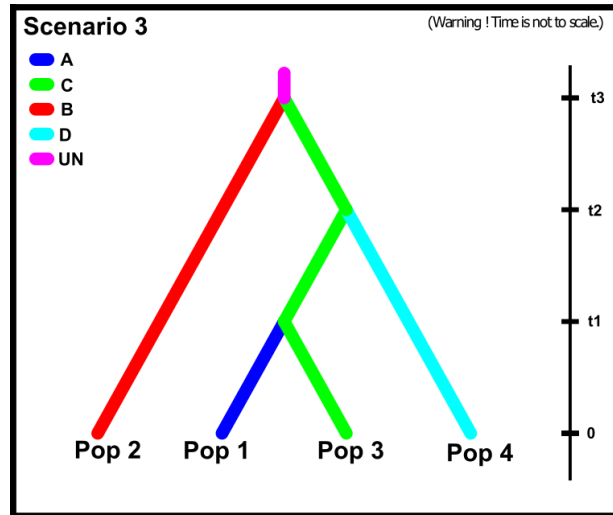
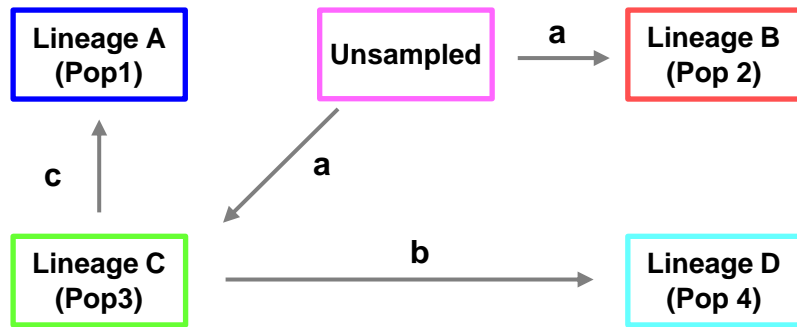
Scenarios 1 to 31: hypothesized to test evolutionary history of *Deladenus siricidicola* lineages



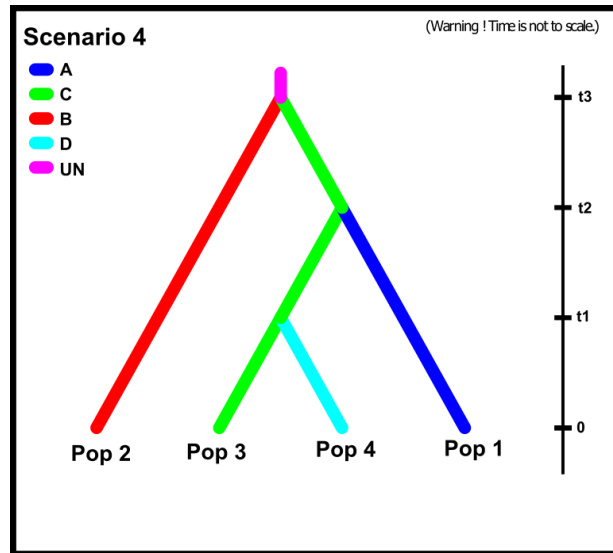
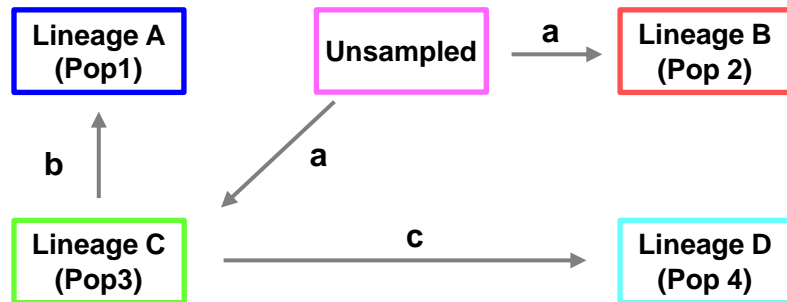
**Scenario 1:** four introductions from the unsampled source population at a similar time point



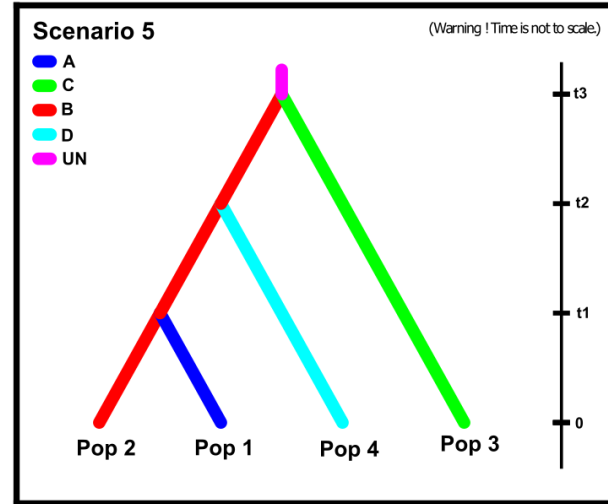
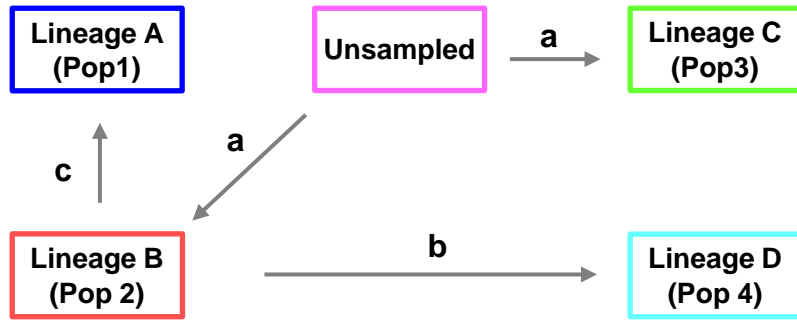
**Scenario 2:** lineages B, C and D introduced from the unsampled source population and then lineage A diverge from lineage C



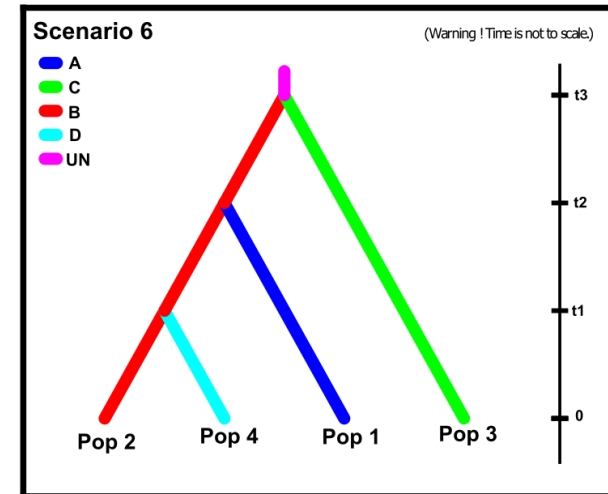
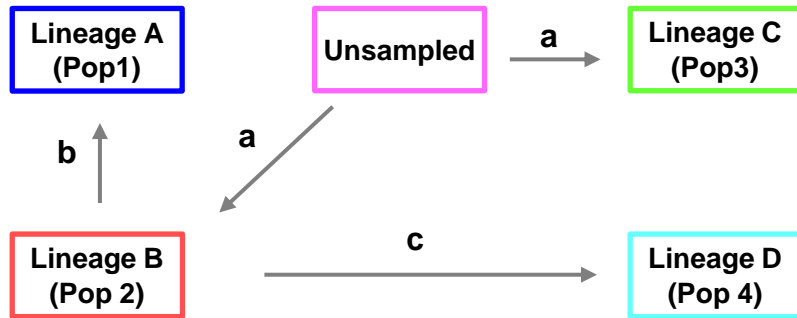
**Scenario 3:** lineages B and C introduced from unsampled source population at the same time point. Then, lineage D diverged from lineage C first and later to lineage A



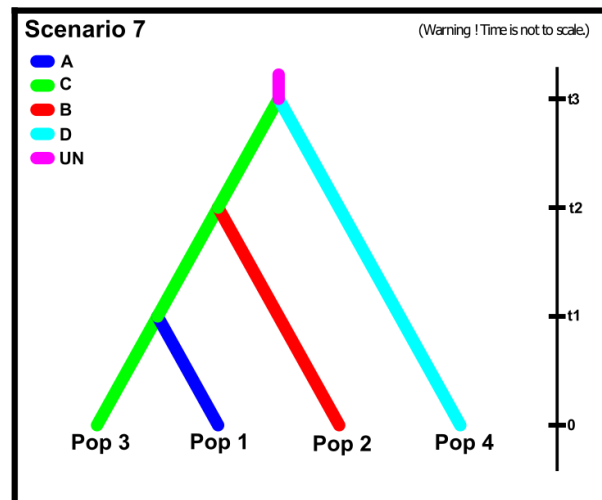
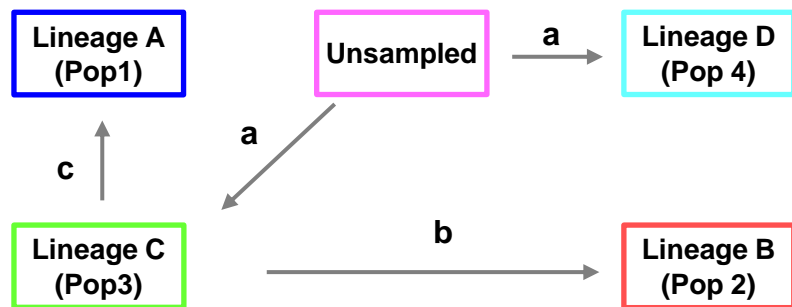
**Scenario 4:** similar with scenario 3 except lineage A diverged from lineage C first and later lineage D



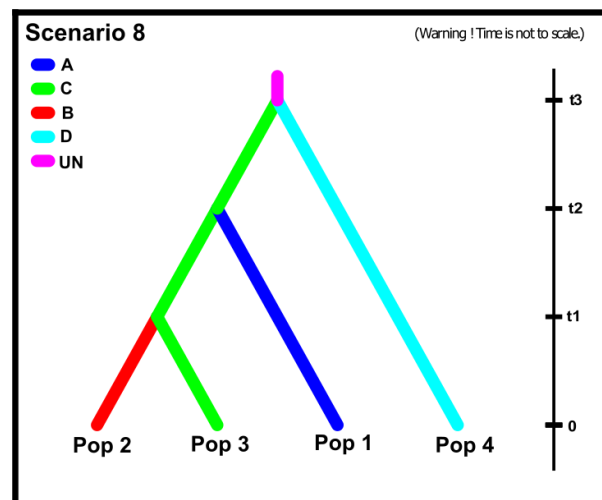
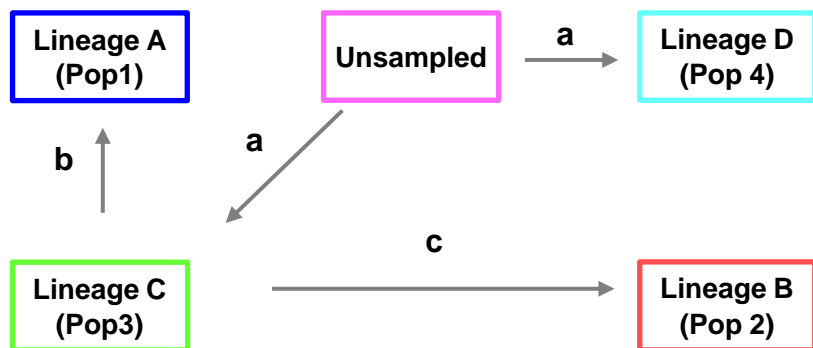
**Scenario 5:** lineages B and C introduced from unsampled source population at the same time point. Then, lineage D diverged from lineage B first and later to lineage A



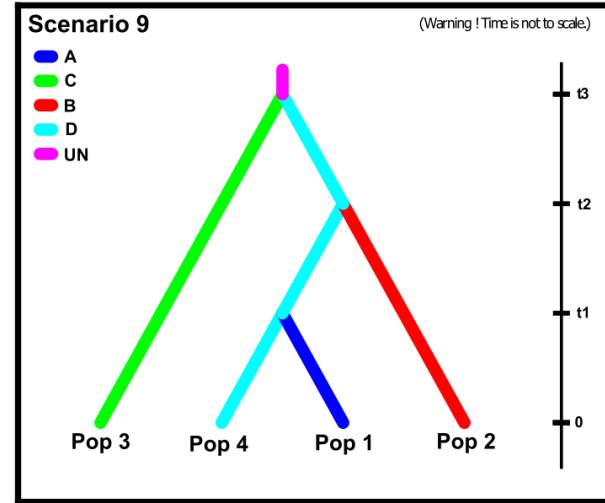
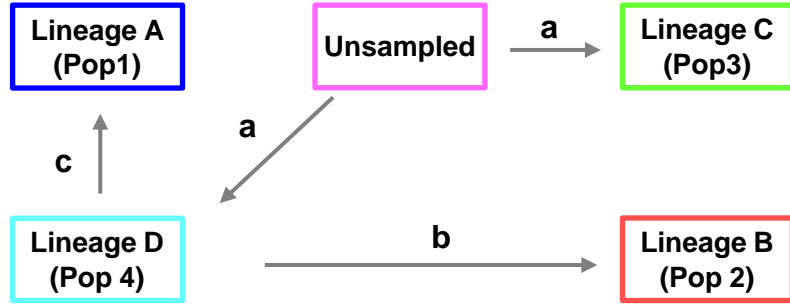
**Scenario 6:** similar with scenario 5 except lineage A diverged from lineage B first and later lineage D



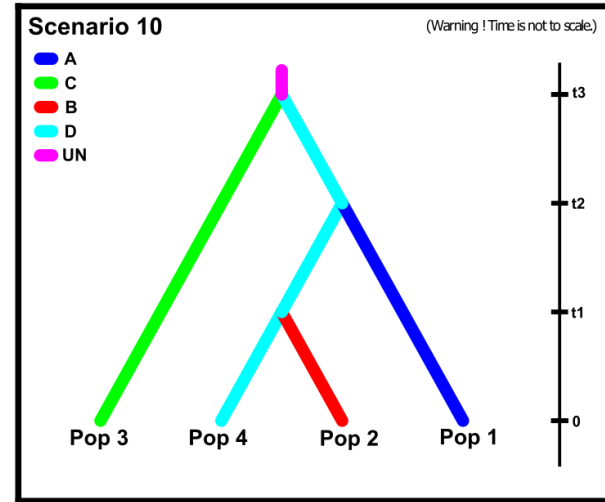
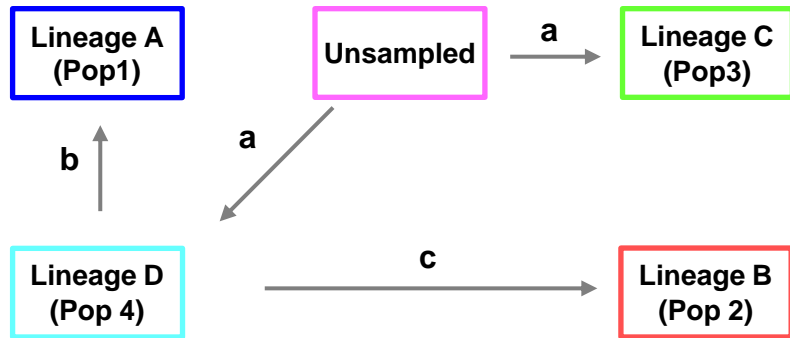
**Scenario 7:** lineages C and D introduced from unsampled source population at the same time point. Then, lineage B diverged from lineage C first and later to lineage A



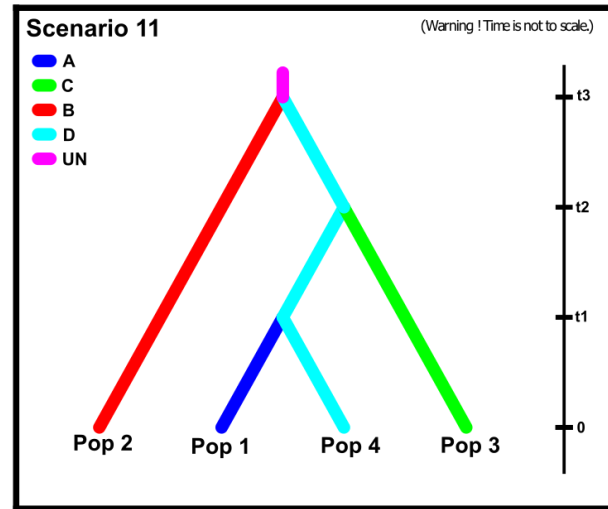
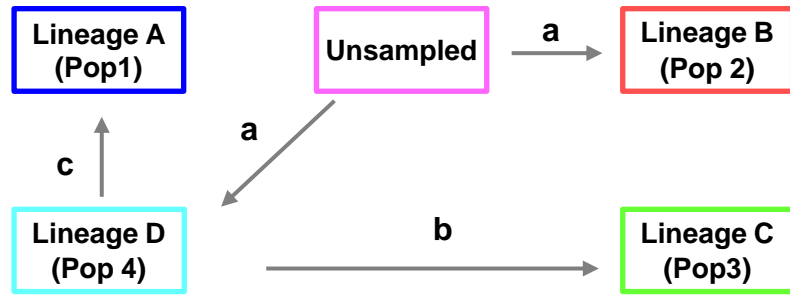
**Scenario 8:** similar with scenario 7 except lineage A diverged from lineage B first and later lineage D



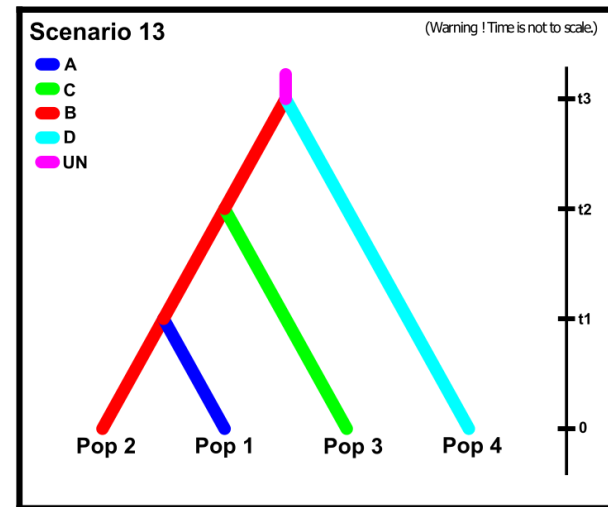
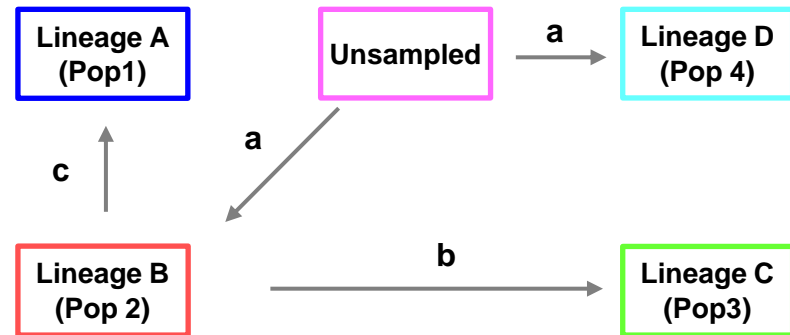
**Scenario 9:** lineages C and D introduced from unsampled source population at the same time point. Then, lineage B diverged from lineage D first and later to lineage A



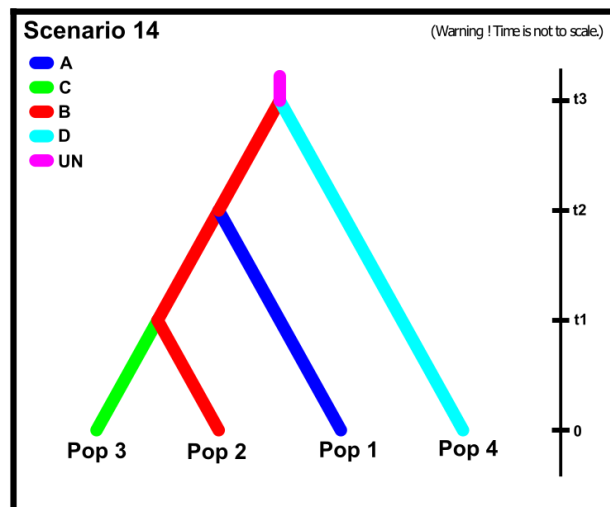
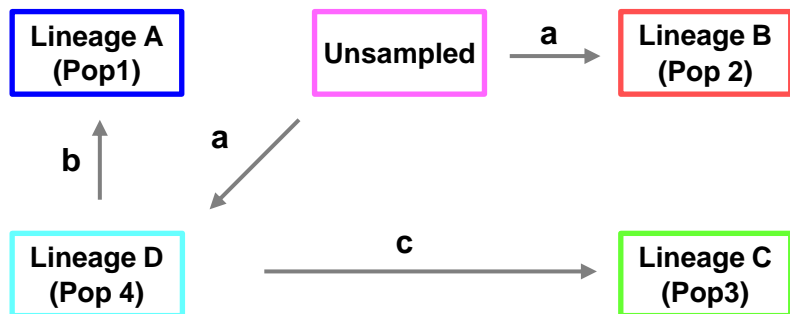
**Scenario 10:** similar with scenario 9 except lineage A diverged from lineage B first and later lineage D



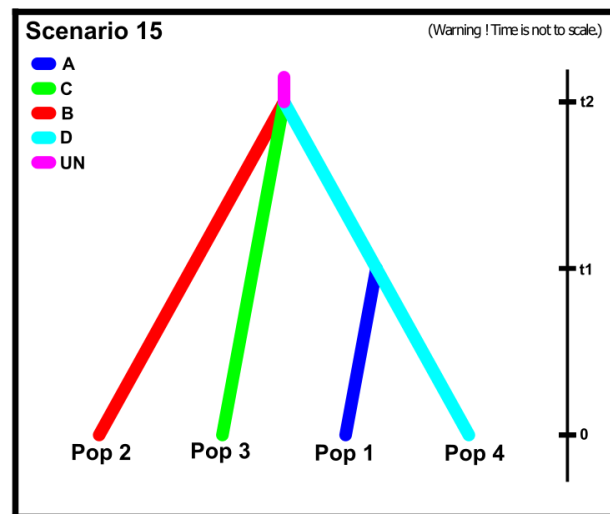
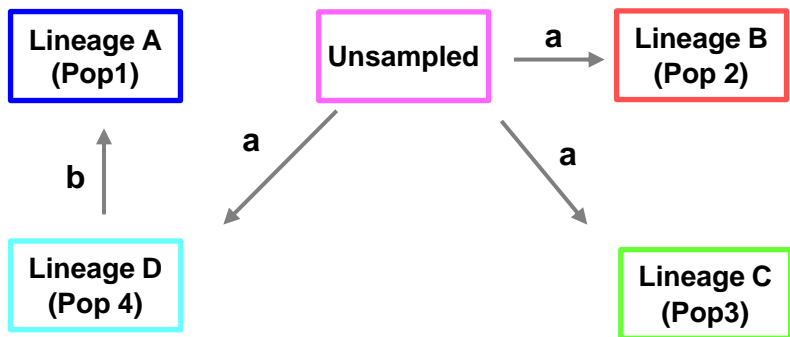
**Scenario 11:** lineages B and D introduced from unsampled source population at the same time point. Then, lineage C diverged from lineage D first and later to lineage A



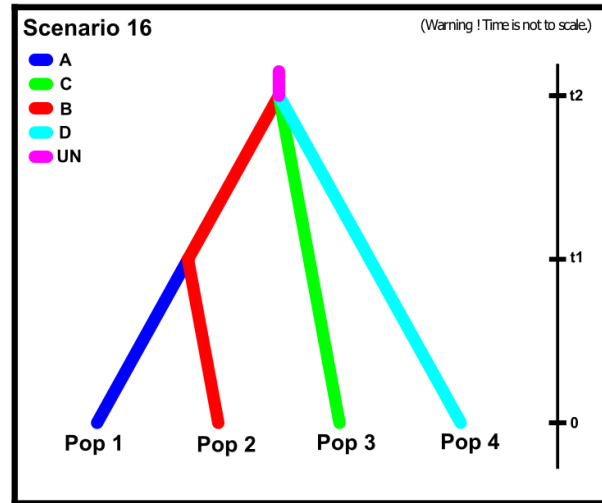
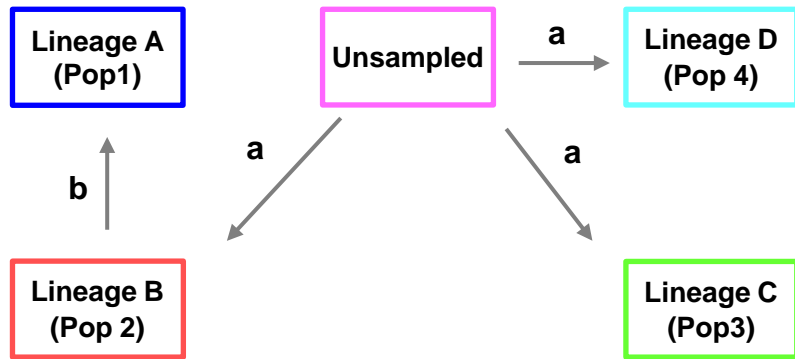
**Scenario 13:** lineages B and D introduced from unsampled source population at the same time point. Then, lineage C diverged from lineage B first and later to lineage A



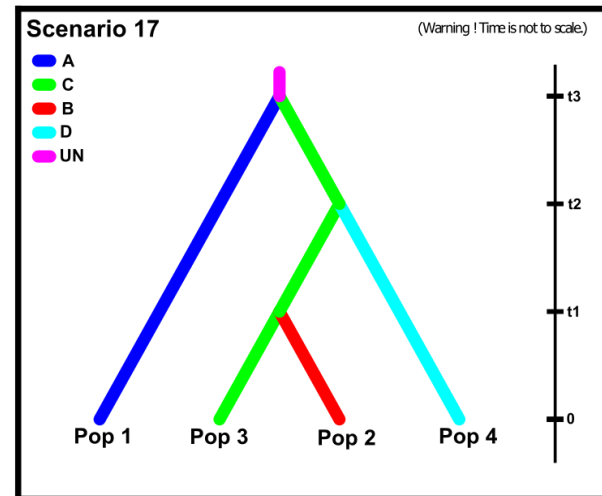
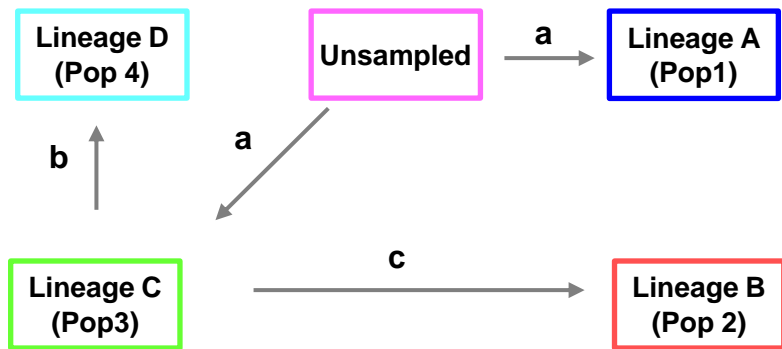
**Scenario 14:** similar with scenario 13 except lineage A diverged from lineage B first and later lineage C



**Scenario 15:** lineages B, C and D introduced from unsampled source population at the same time point. Then, lineage A diverged from lineage D

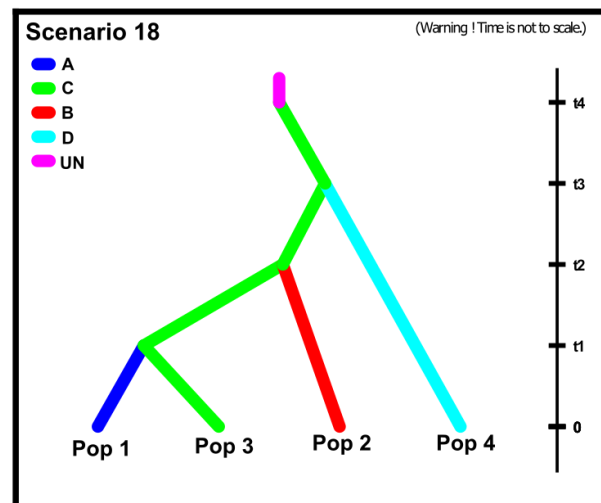
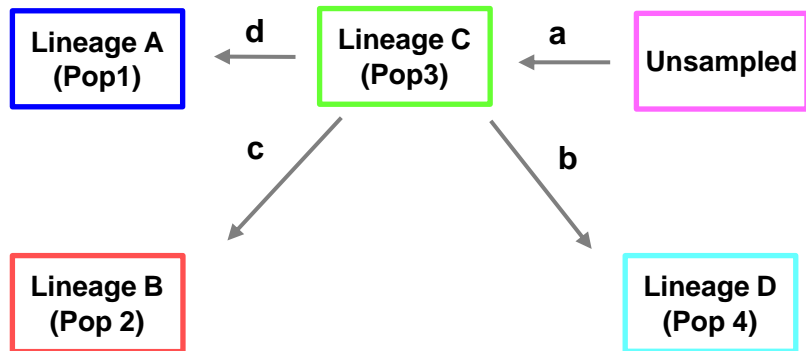


**Scenario 16:** similar with scenario 15 except lineage A diverged from lineage B

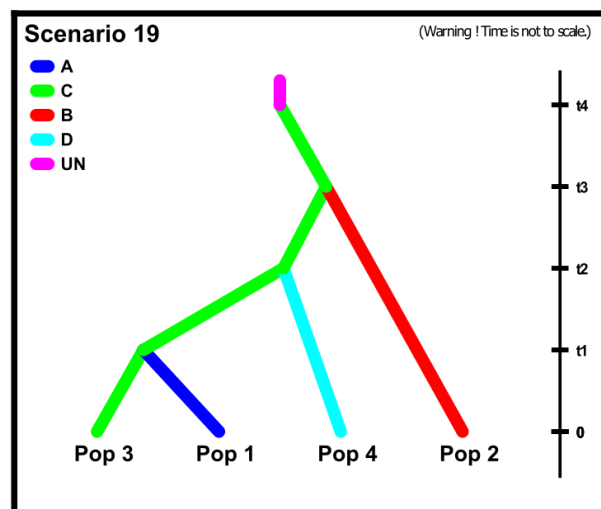
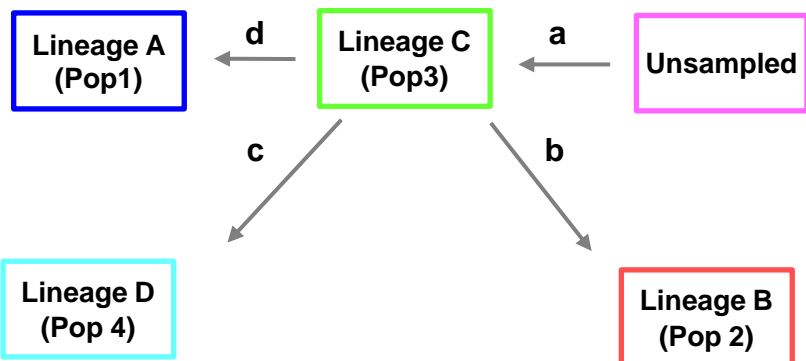


**Scenario 17:** lineages A and C introduced from unsampled source population at the same time point. Then, lineage D diverged from C first and later to lineage B

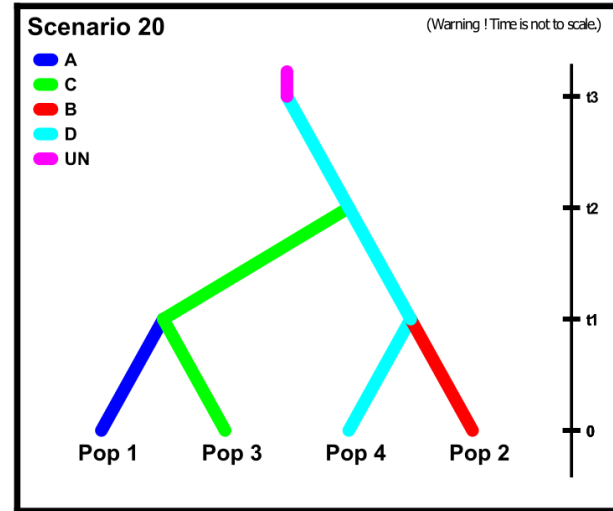
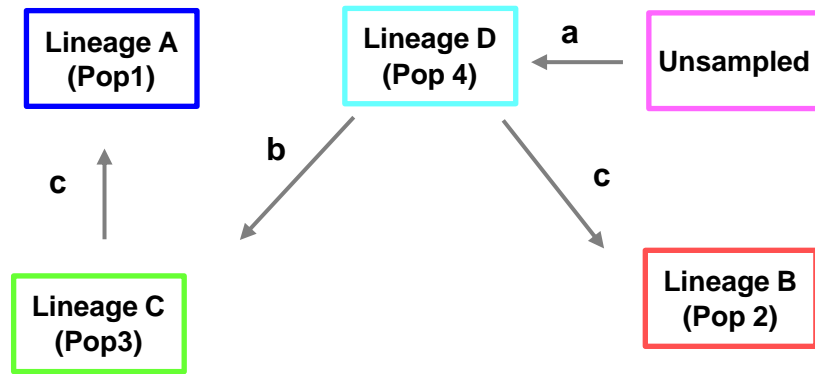




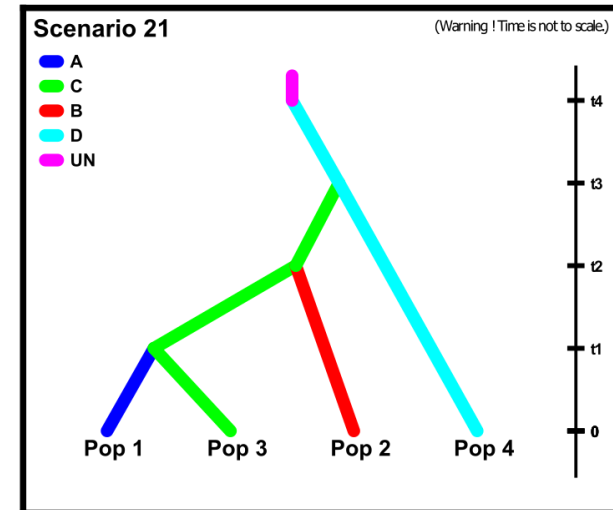
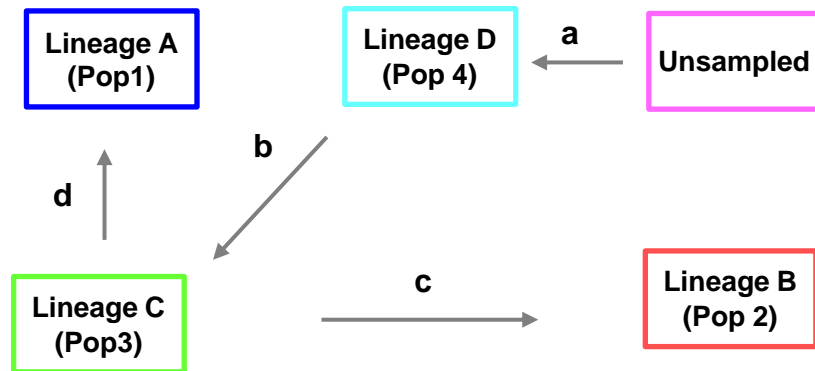
**Scenario 18:** lineage C introduced from unsampled source population. Then, lineage C gave rise first to lineage D, then to B and later to lineage A



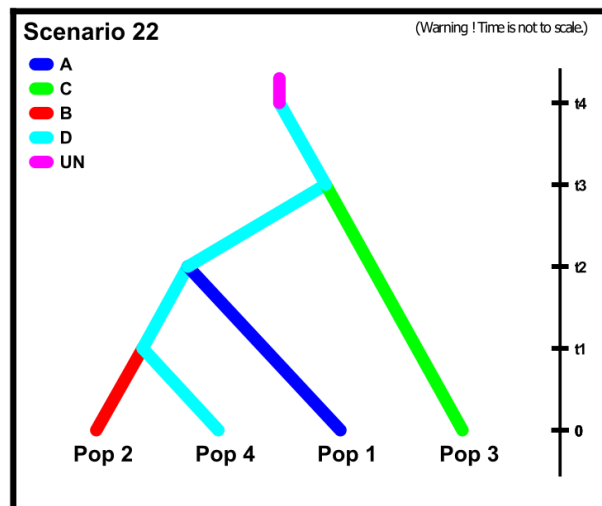
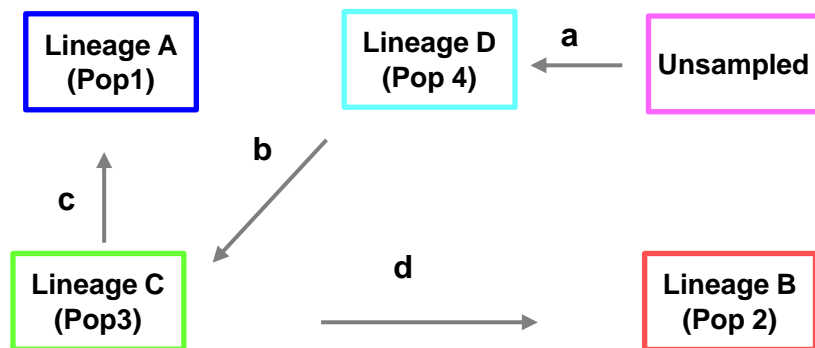
**Scenario 19:** similar with scenario 18 except lineage B diverged first from C, then lineage D and followed by lineage A.



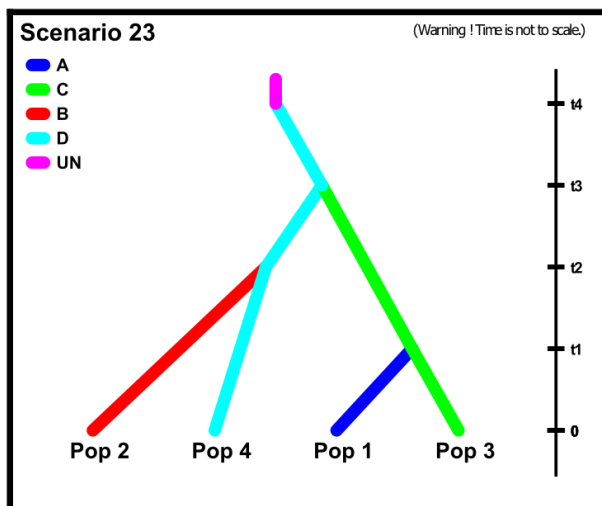
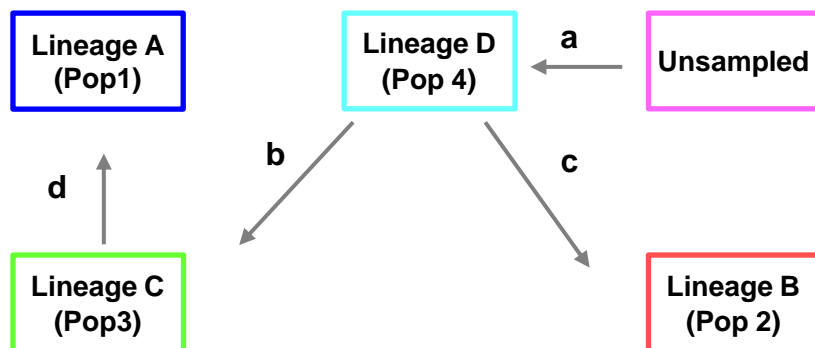
**Scenario 20:** lineage D introduced from unsampled source population first and then lineage C diverged from D. Later, lineages A and B diverged from C and D at the same time point, respectively.



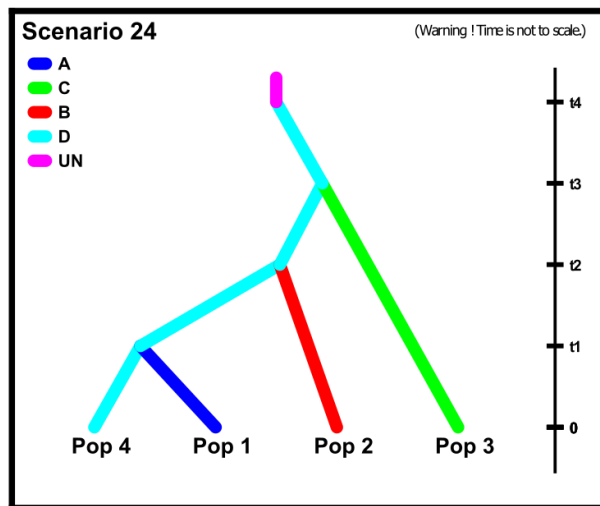
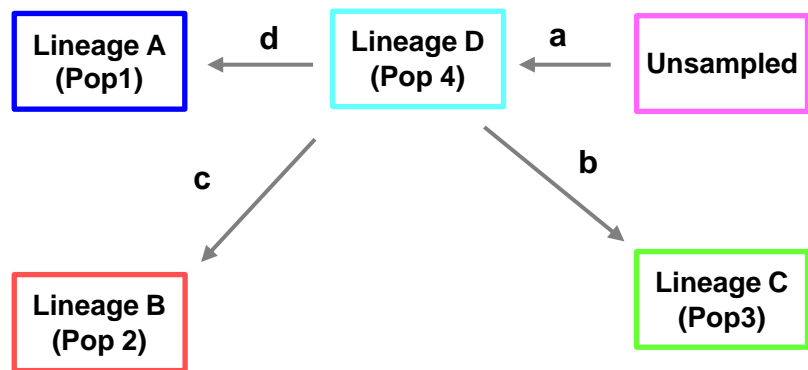
**Scenario 21:** similar with scenario 20 except lineage B diverged first from C and later lineage A from C.



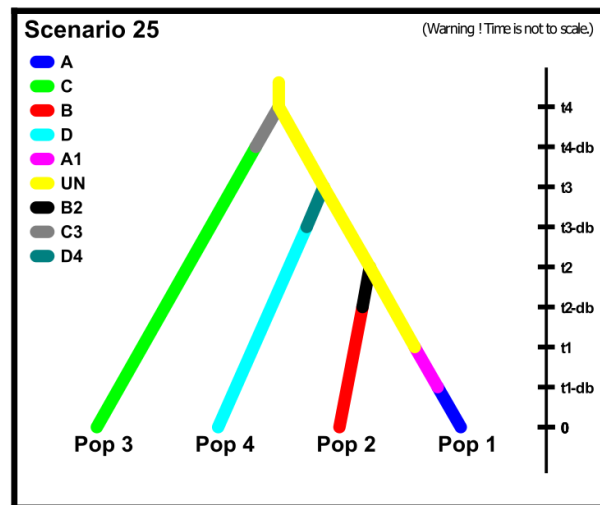
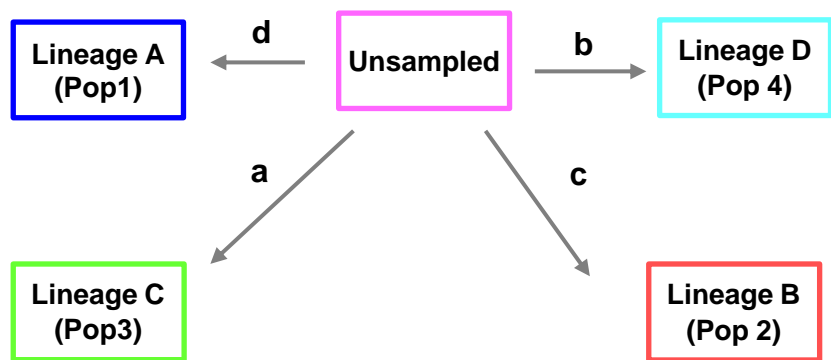
**Scenario 22:** similar with scenario 21 except lineage A diverged first from D first and then lineage B from D



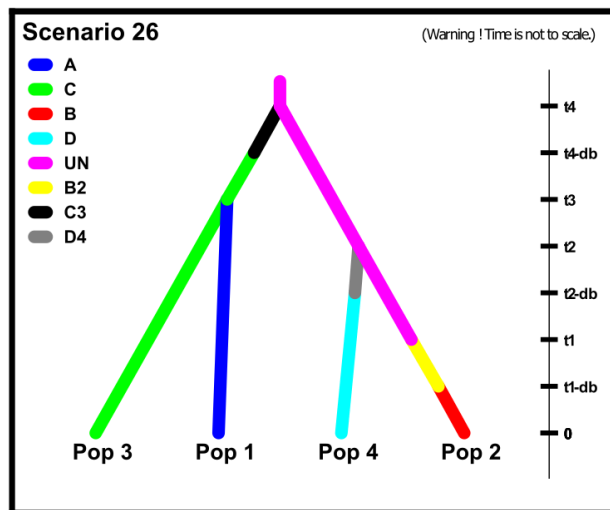
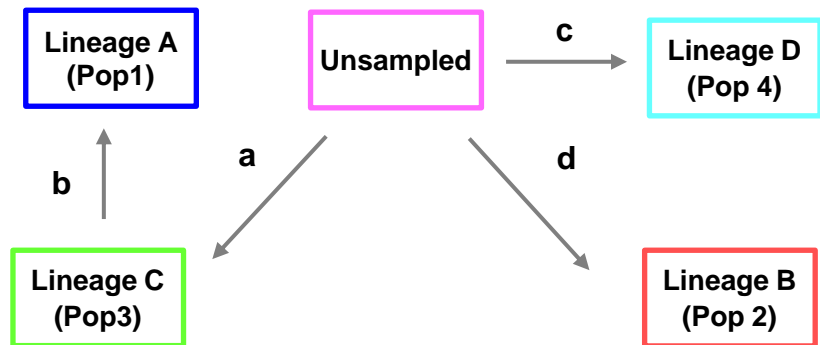
**Scenario 23:** lineage D introduced from unsampled source population first and lineage C diverged from D. Then, lineage B diverged from D and lineage A diverged from C independently



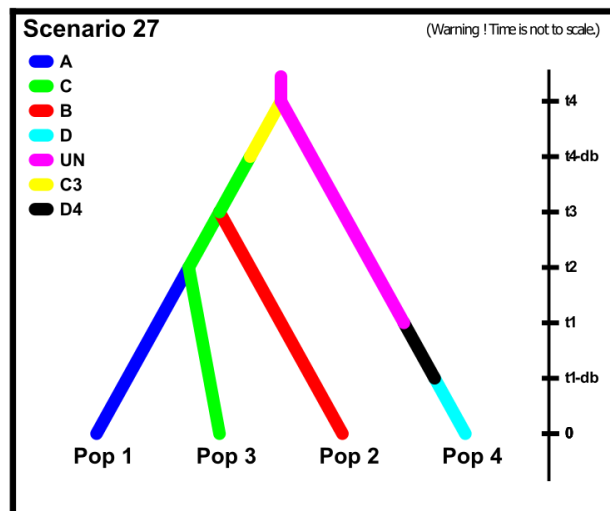
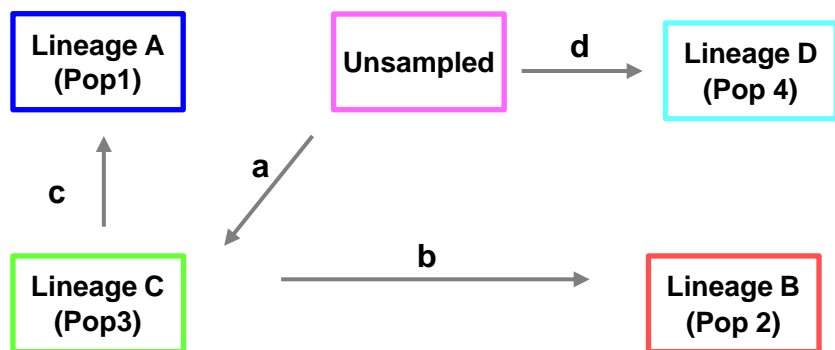
**Scenario 24:** lineage D introduced from the unsampled source population. Then, lineage C diverged from lineage D first, subsequently to lineages B and A.



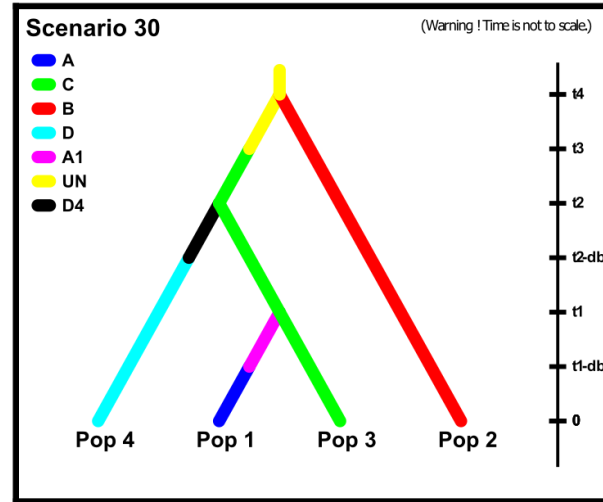
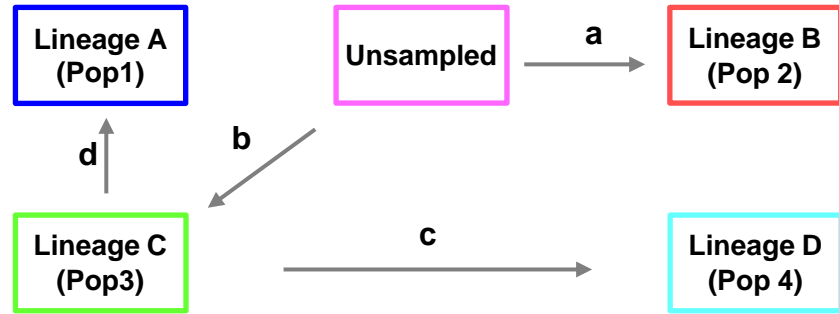
**Scenario 25:** four independent introductions of each lineages from the unsampled source population



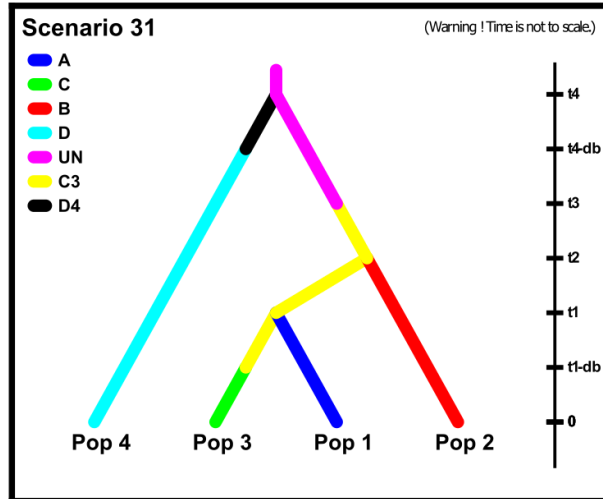
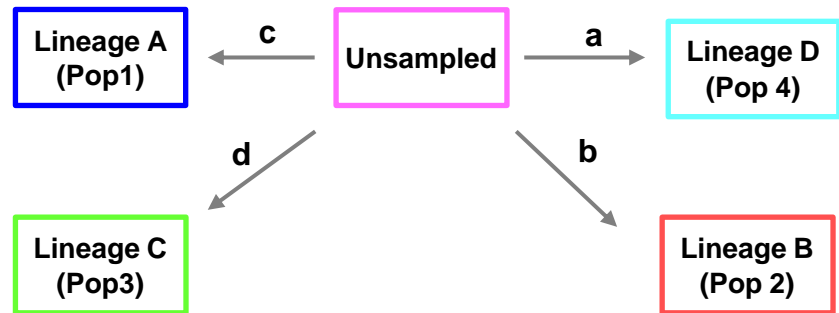
**Scenario 26:** three independent introductions from unsampled source population (i.e., lineages C, D and B) and then lineage A diverged from C.



**Scenario 27:** two independent introductions from the unsampled source population (i.e. lineages C and D). Then lineage B diverged from C and later lineage A.



**Scenario 30:** there is an unsampled population that gives rise to two lineages independently: the oldest lineage of B and then a younger lineage C. Subsequently, lineage C gave rise to lineage D and lineage A .



**Scenario 31:** there are two independent introductions from unsampled source populations: first lineage D and subsequently in the second independent introductions lineage B diverged first followed by lineage A and C.