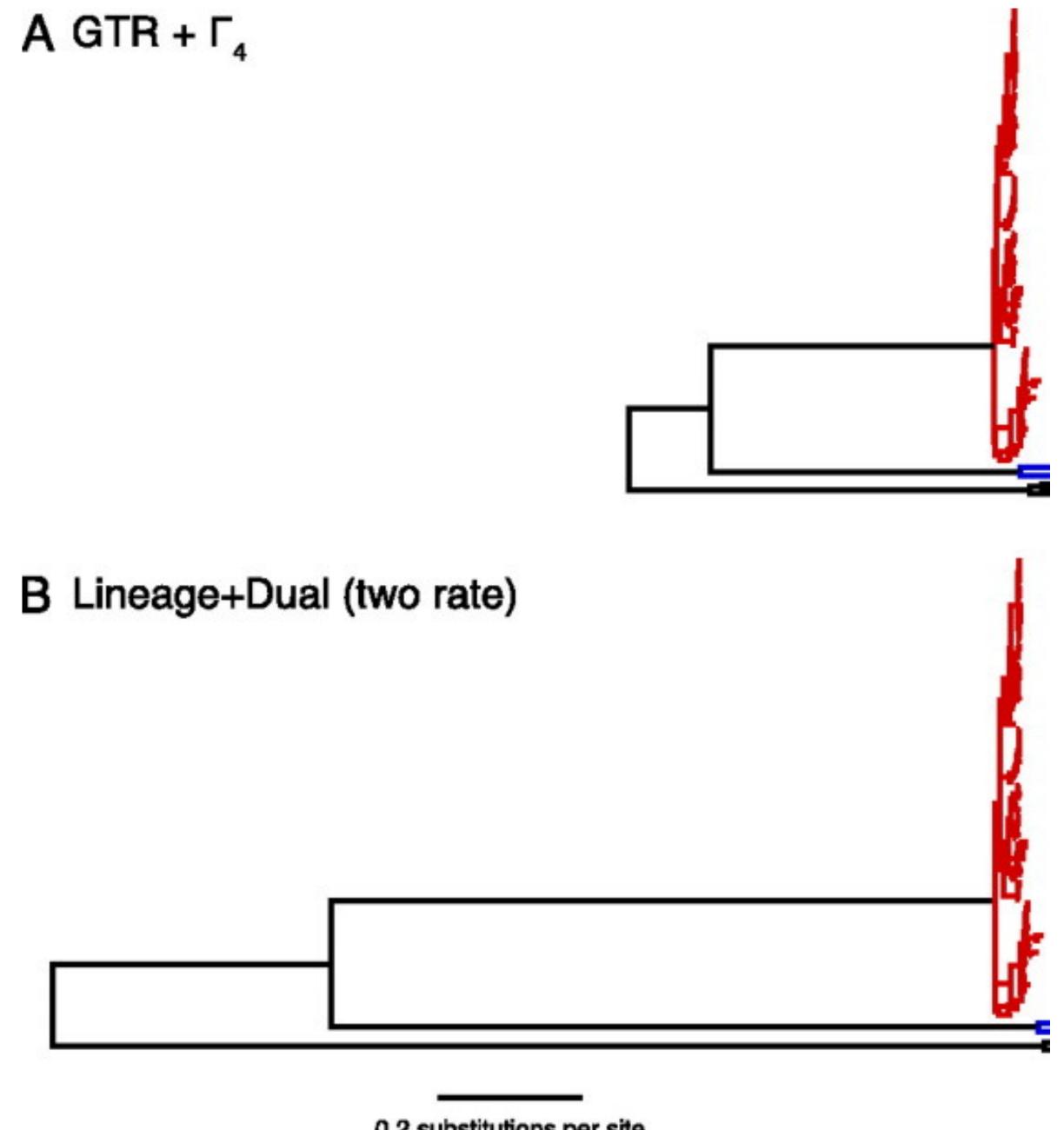
- Using models that do not vary selection pressure across lineages yields a patently false "too young" estimate for the origin of measles (about 600 years ago)
- This estimate is refuted by clear historical records which suggest that measles is at least 1,500-5,000 years old
  - This includes a treatise by a Persian physician Rhazes about differential diagnosis of measles and **smallpox** published circa 600 AD.
- Same patterns found for coronaviruses, ebola, avian influenza and herpesvirus



## Questions about the previous material?

We covered the aBSREL method, which detects episodes of selection across branches in a phylogeny.