

$$P(\text{genetic sequences} \mid \text{genealogy} \mid \text{demographic model} \mid \text{site model} \mid \text{molecular clock model}) = \frac{P(\text{genetic sequences} \mid \text{genealogy} \mid \text{demographic model} \mid \text{site model} \mid \text{molecular clock model})}{P(\text{genetic sequences})}$$

  
 genetic  
sequences

  
 genealogy

  
 demographic  
model

  
 site model

  
 molecular clock  
model