

$$P(\text{[tree]} \text{ [model]} \text{ [clock]} | \text{ACAC... TCAC... ACAG...}) = \frac{P(\text{ACAC... TCAC... ACAG...} | \text{[tree]} \text{ [model]} \text{ [clock]}) P(\text{[tree]} | \text{[model]}) P(\text{[model]}) P(\text{[clock]})}{P(\text{ACAC... TCAC... ACAG...})}$$

Prior information

ACAC...
TCAC...
ACAG...

genetic
sequences

[tree]

genealogy

[model]

demographic
model

[substitution model]

substitution
model

[clock]

molecular clock
model