

C → T
G → A

N. Moran

Endosymbionts

- Phylogenies parallel hosts
- Multiple origins
- Population bottlenecks
due to transmission
- Substitution rate very high
compared to free-livers
in all genes
- Low ratio of synonymous:non-
synonymous
- AT bias
- lower thermal stability

(BUT THERE ARE SPECIES
WITH VERY HIGH AT)