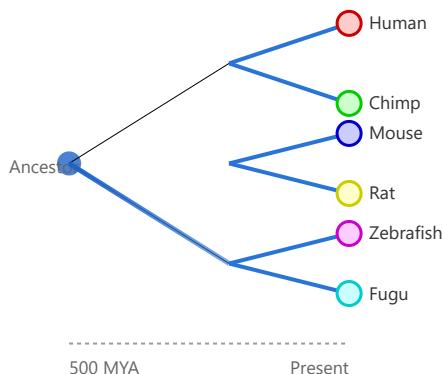


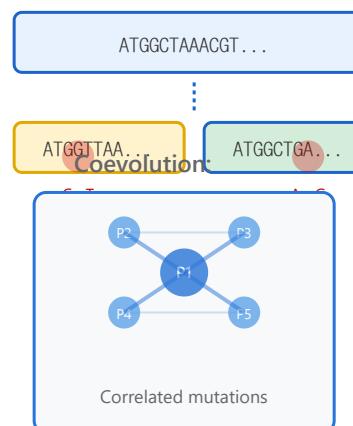
# Evolution Modeling

## Phylogenetic Analysis & Evolution

Phylogenetic Tree:



Sequence Evolution:



## Fitness Landscape



### Sequence evolution

Substitution models & rates

### Phylogenetic inference

Tree reconstruction methods

### Ancestral reconstruction

Ancient sequence prediction

### Coevolution

Correlated mutations analysis

### Fitness landscapes

Adaptive evolution mapping