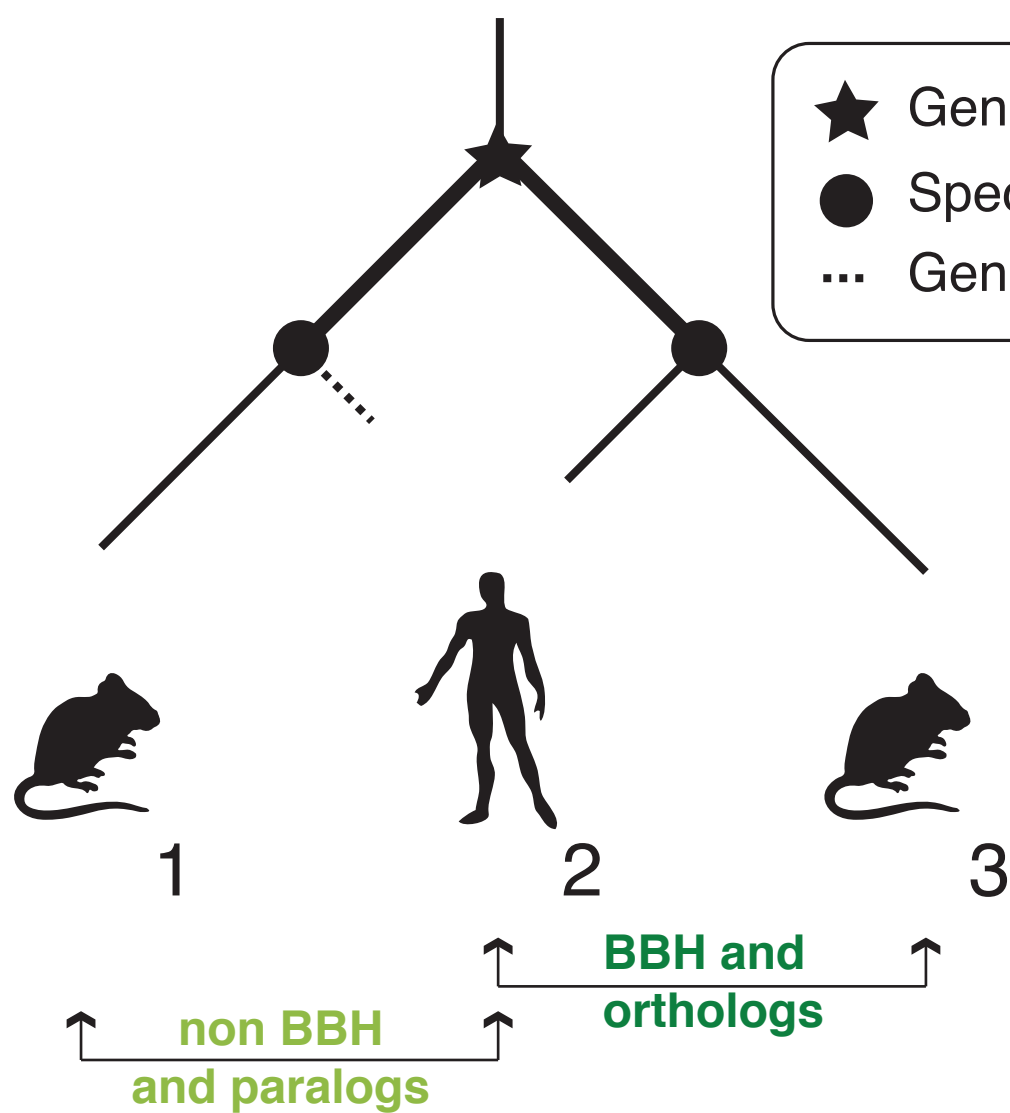
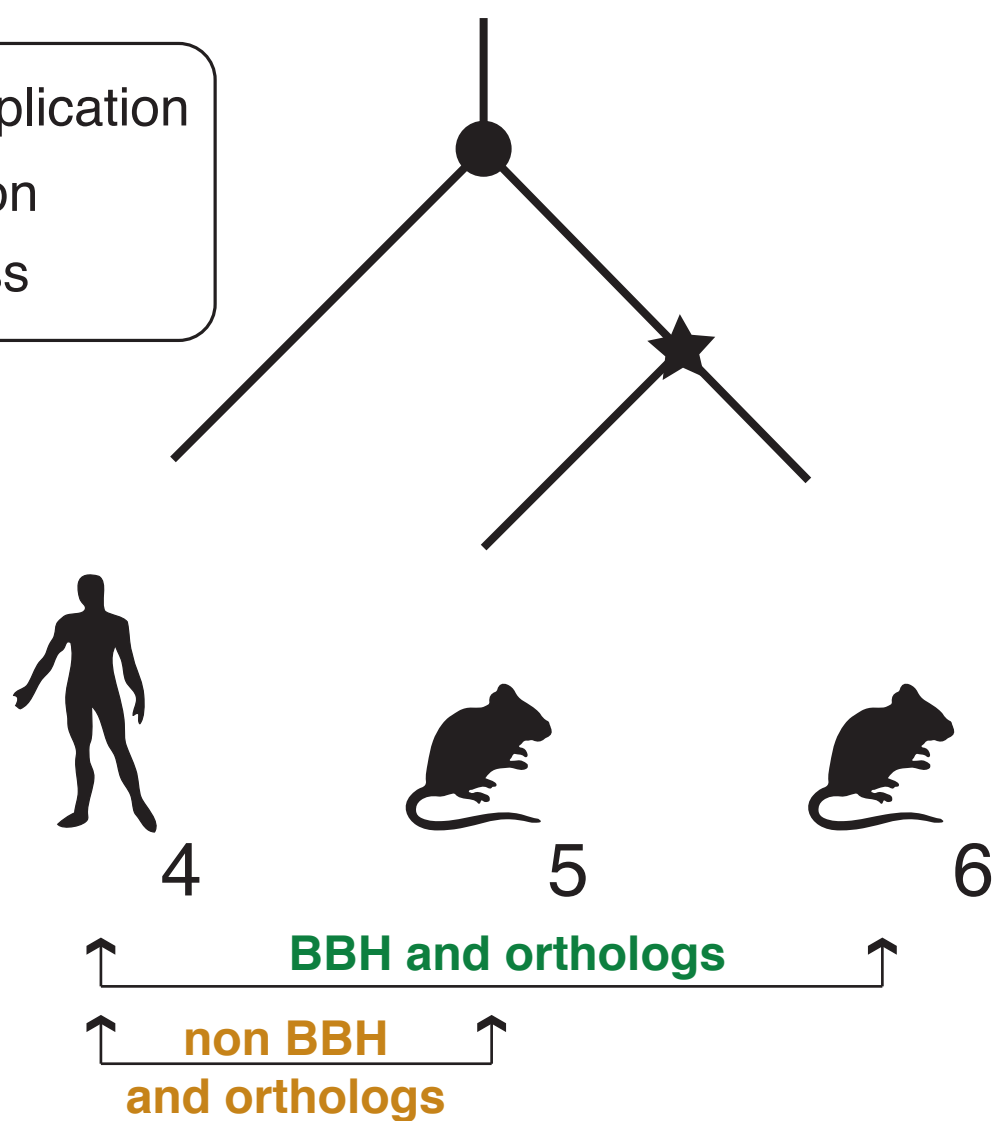


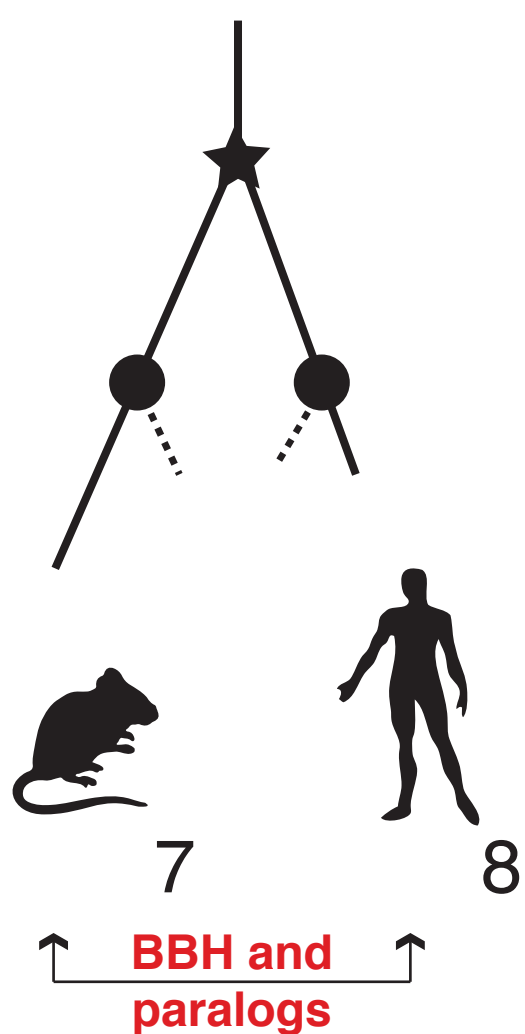
a) ancestral duplication



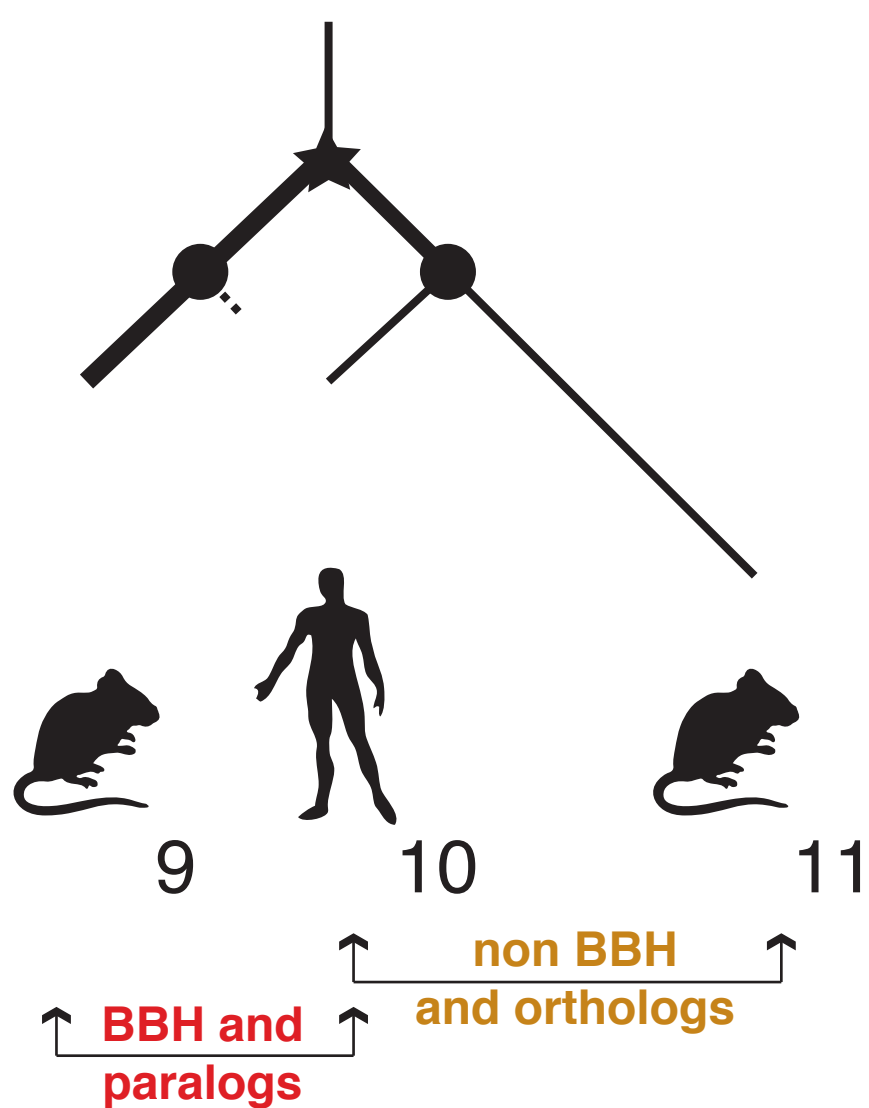
b) lineage-specific duplication



c) differential gene losses



d) strong departure from molecular clock



★ Gene duplication
● Speciation
⋯ Gene loss

true positive
true negative
false negative
false positive