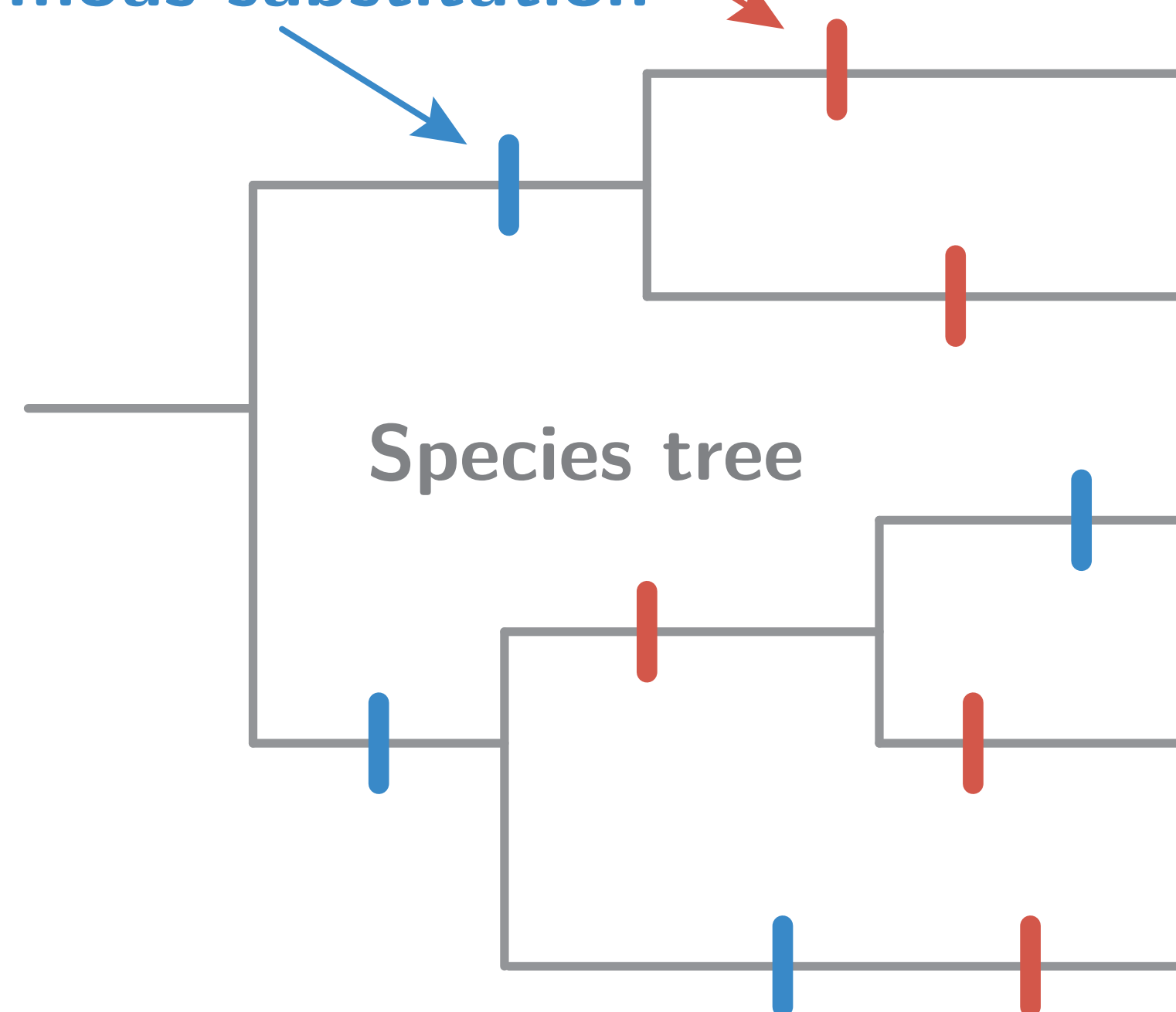


Non-synonymous substitution
Synonymous substitution



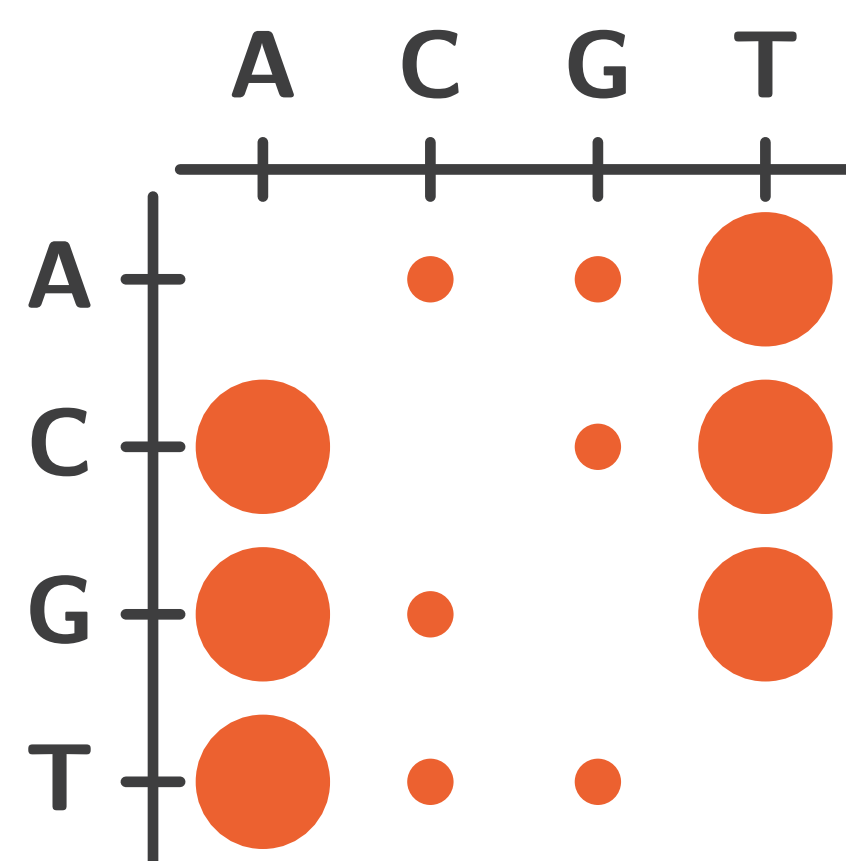
ATG|GGA|TCC|ATG|CTA|CGA|TCG

ATG|CGA|TCC|ATG|GTA|CGA|TCG

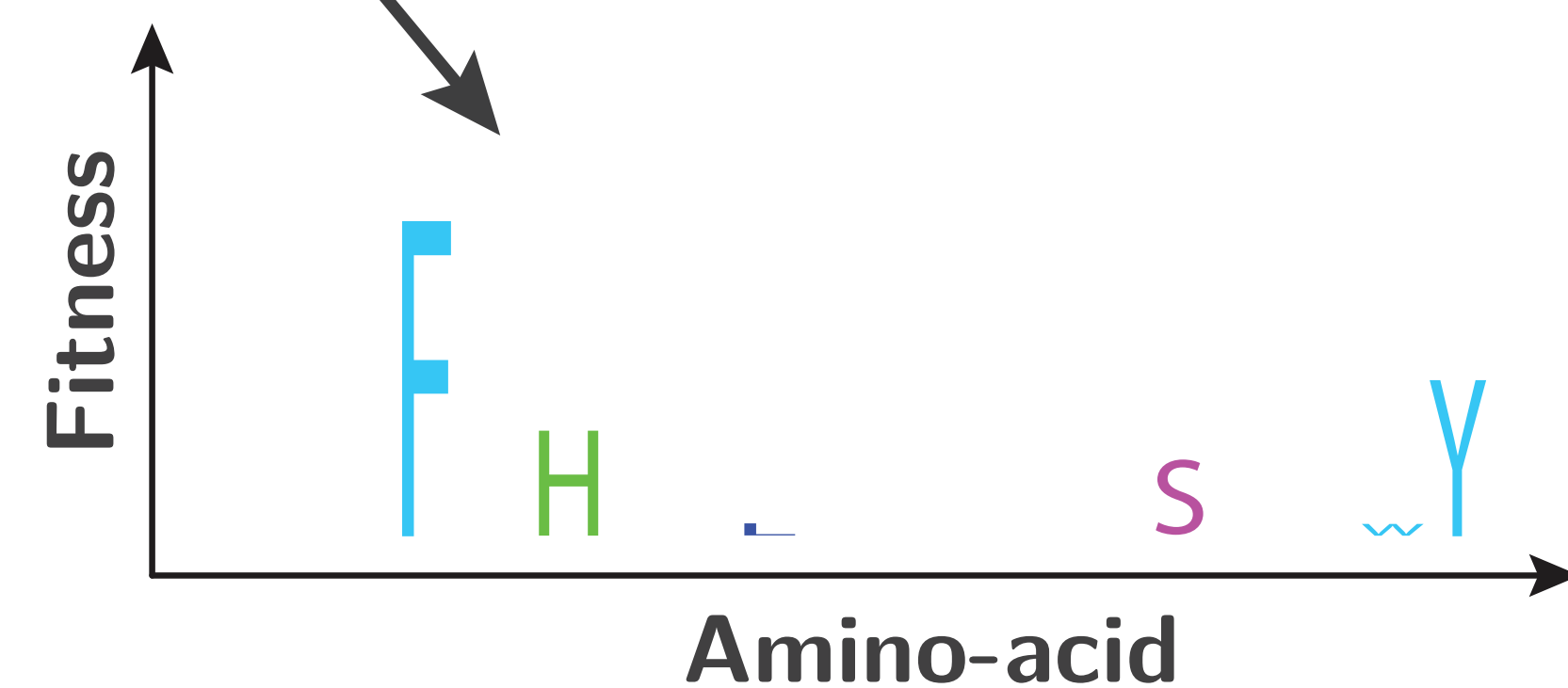
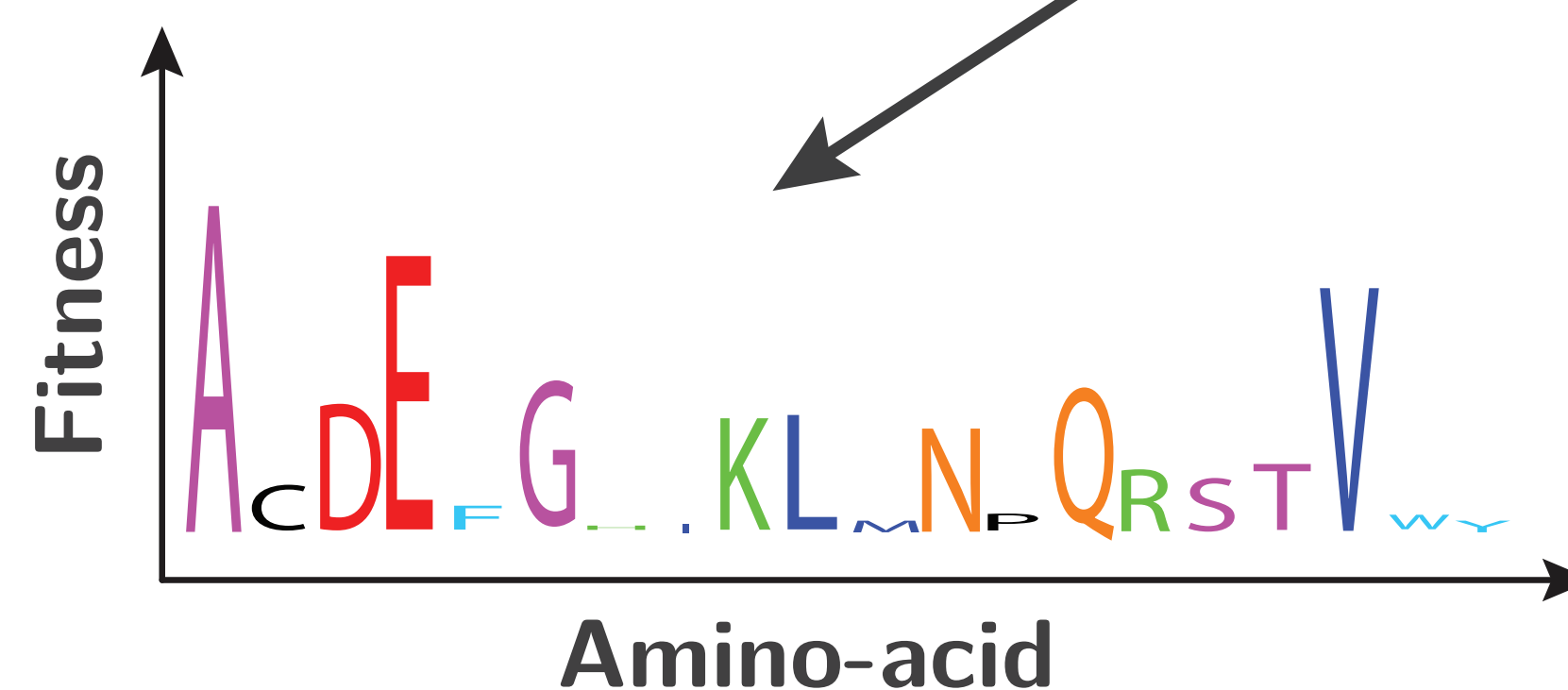
ATG|CGA|TCG|AAG|CTT|CGA|TCC

ATG|CGA|TAG|AAG|CTT|CGA|TCG

ATG|CGA|TCG|ATC|CAT|CGA|TCG



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Fitness landscapes of amino-acids
(number of sites x20)

Mutation rate of
nucleotides (4x4)