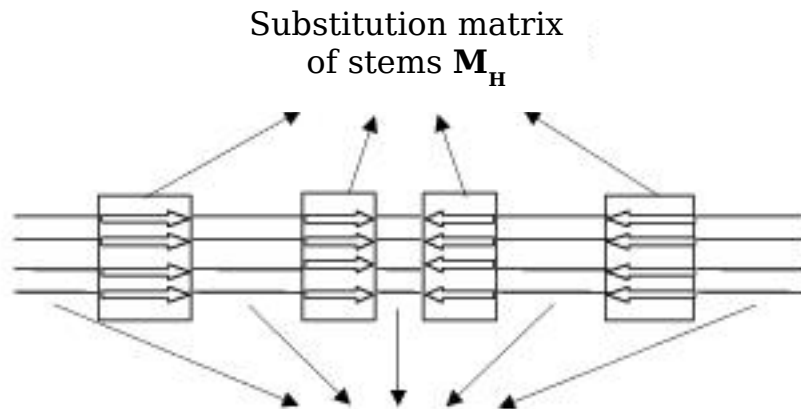
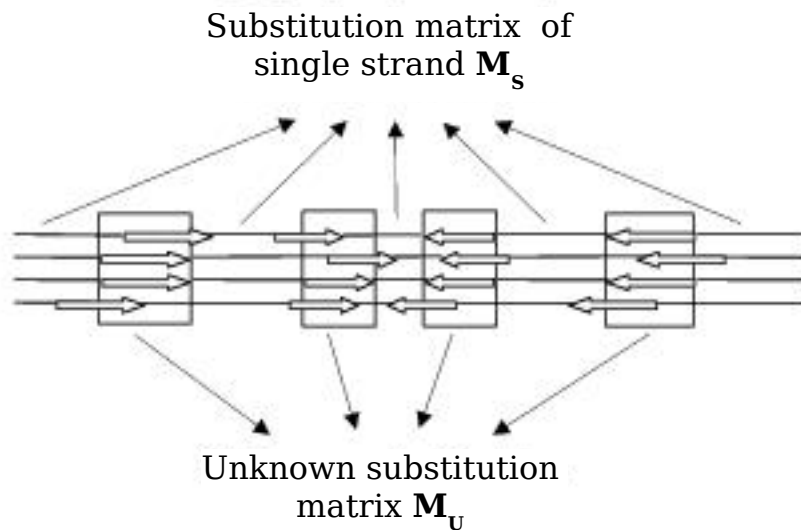


Sequences with
correct stems
alignments



Substitution matrix of
sequences = $\mathbf{M}_H + \mathbf{M}_s$

Sequences with
incorrect stems
alignments



Substitution matrix of
sequences = $\mathbf{M}_U + \mathbf{M}_s$