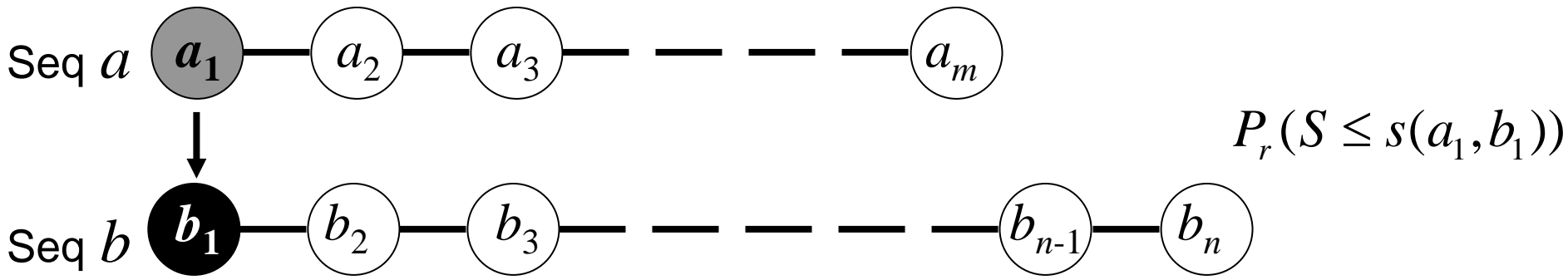
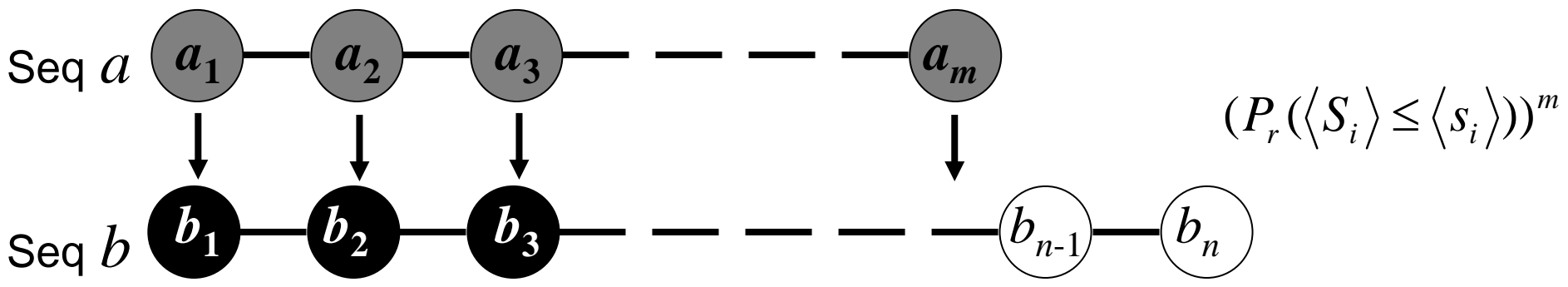


**Step 1**, evolution of one residue:  $a_1 \rightarrow b_1$



**Step 2**, one evolutionary scenario given by one alignment



**Step 3**, taking into account alternative alignments

