

		1	2	3	4	5	6	7	8	9	10	11
yeast		G	U	C	U	C	G	G	C	A	C	
fly		G	C	C	U	U	C	G	G	A	G	
cow		G	C	A	U	U	C	G	U	C	G	
mouse		G	C	U	U	U	C	G	A	U	G	
human		G	C	G	U	U	C	G	C	U	G	
chicken		G	U	A	U	U	C	G	U	A	A	
snake		G	U	G	U	U	C	G	C	G	A	
croc		G	U	U	U	U	C	G	A	G	A	
worm		G	C	G	U	U	C	G	C	G	G	

One HMM node per alignment column

3 states per node:

(M) Match: emits residues

(I) Insert: inserts extra residues

(D) Delete: deletes residues

HMMs generate homologous sequences.

Given a sequence, the most likely path that could have generated that sequence can be computed.

Node for column 2:

