

		1	2	3	4	5	6	7	8	9	10	11
yeast		GU	.	CUUCGGCAC								
fly		GC	.	CUUCGGAGC								
cow		GC	.	AUUCGUCGC								
mouse		GC	.	UUUCGAUGC								
human		GC	.	GUUCGCUGC								
chicken		GU	.	AUUCGUAAC								
snake		GU	.	GUUCGCGAC								
croc		GU	.	UUUCGAGAC								
worm		GC	.	GUUCGCGGC								
corn		GUGAUUCGU	.	GC								

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:

