yeast GUCUU
fly GCCUU
cow GCAUU
mouse GCUUU
human GCGUU
chicken GUAUU
snake GUGUU
croc GUUUU

CAUUCGGAC
GCUUCGAGC
GCUUCGGAGC
GCUUCGAUCGC
GCUUCGAUGC
GCUUCGAUGC
GCUUCGAUGC
GCUUCGCUGC
GUUCGCUGC
GUUCGCUGC
GUUCGCUGC
GUUUCGAGAC
GUUUCGAGAC

One HMM node per alignment column

3 states per node:

(M) Match: emits residues

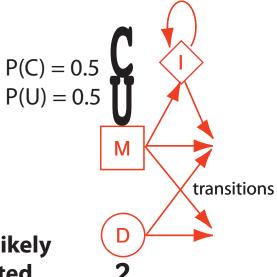
(I) Insert: inserts extra

residues

(D) Delete: deletes residues

HMMs generate homologous sequences.

Node for column 2:



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

