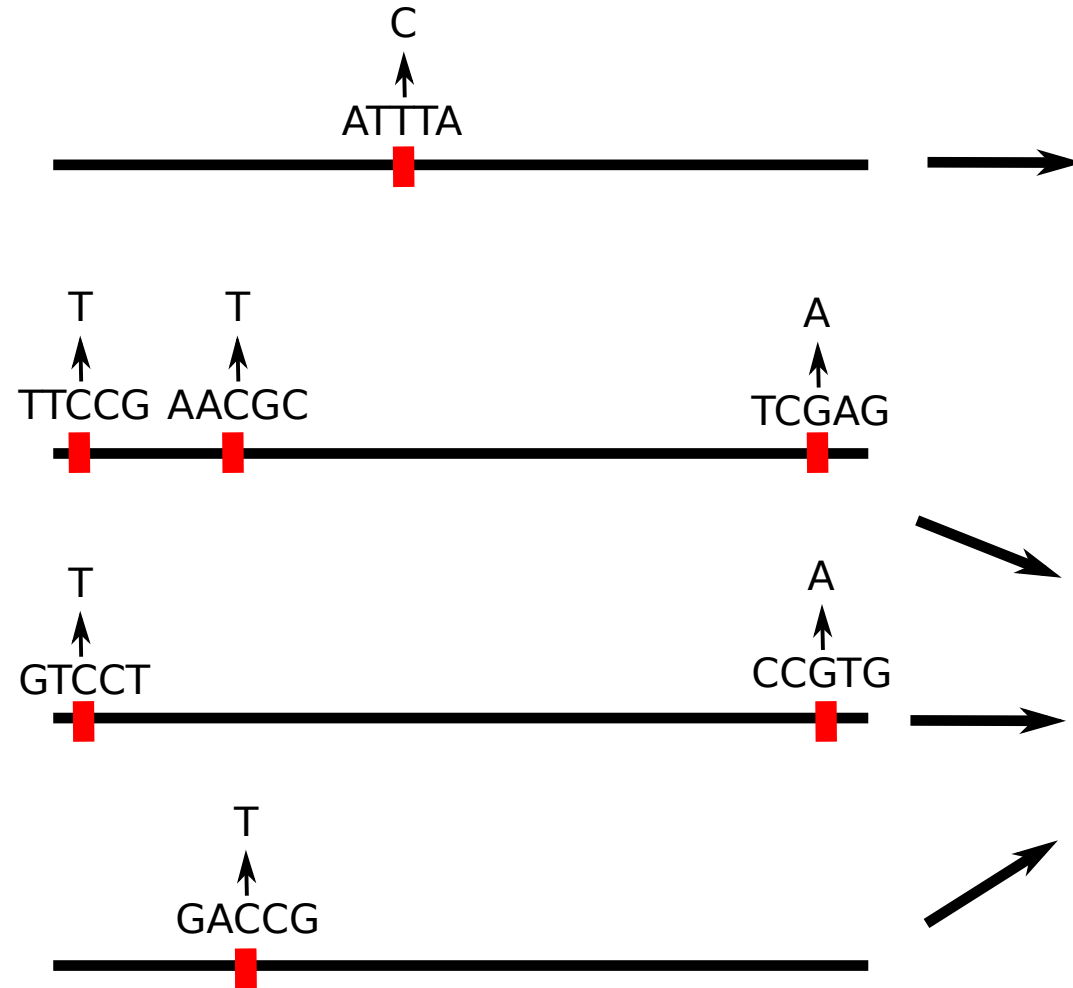
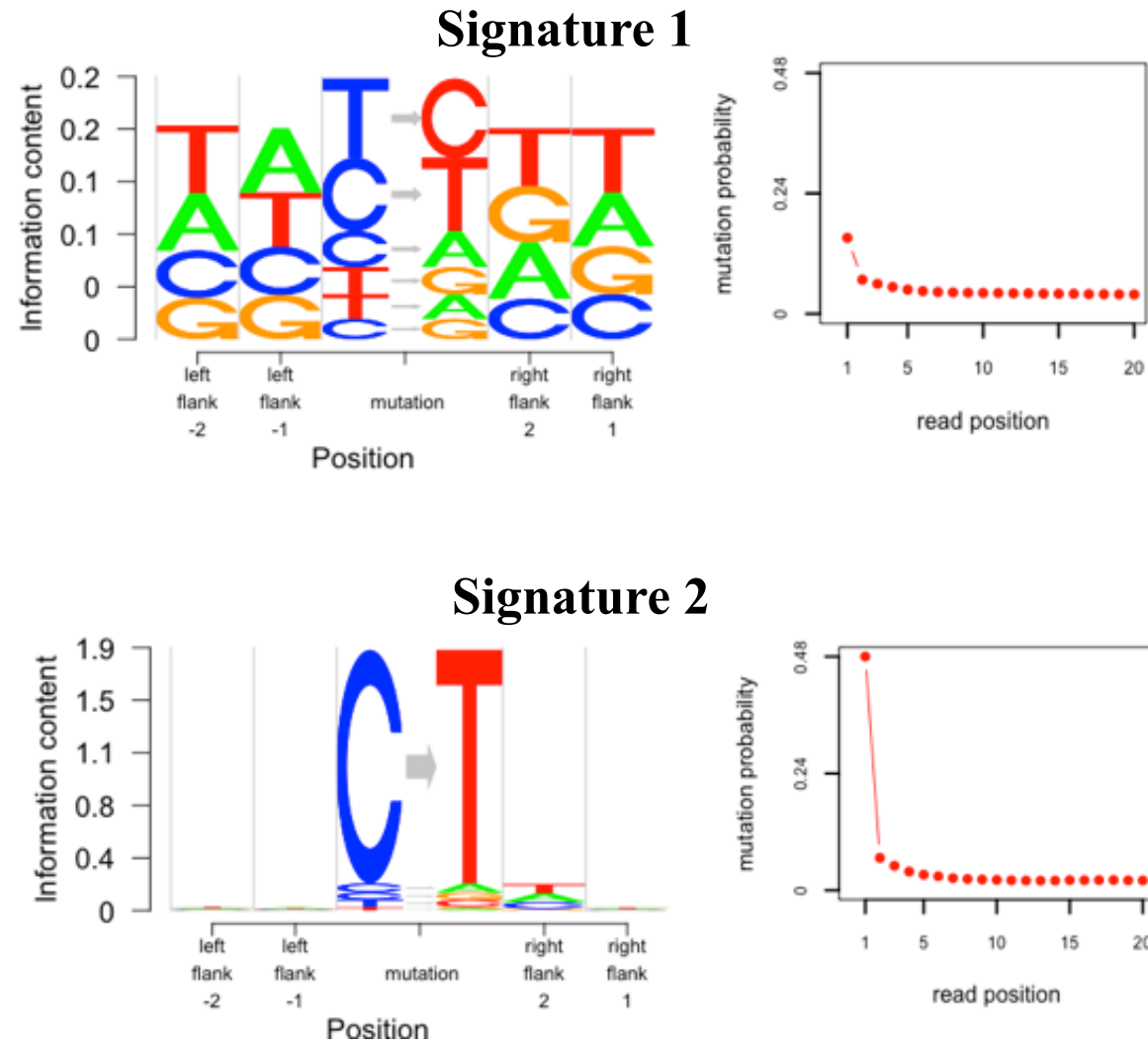


actual observed mutational patterns



operative mutation signatures



individuals are mixtures of signatures

