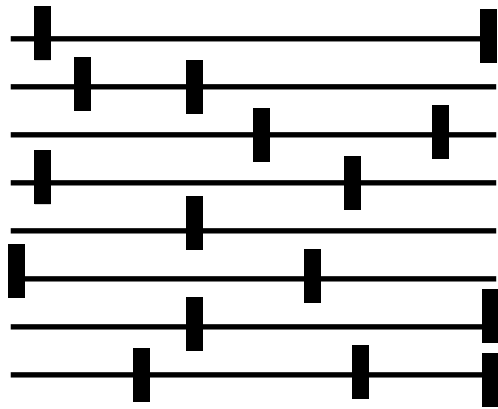
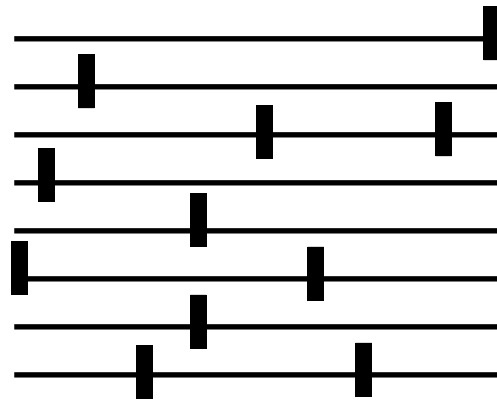


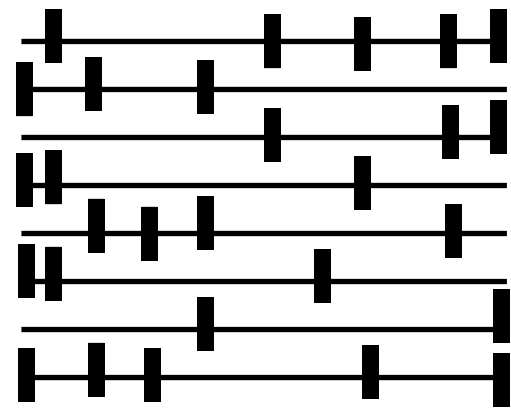
# Tajima's $D$



$D = 0$

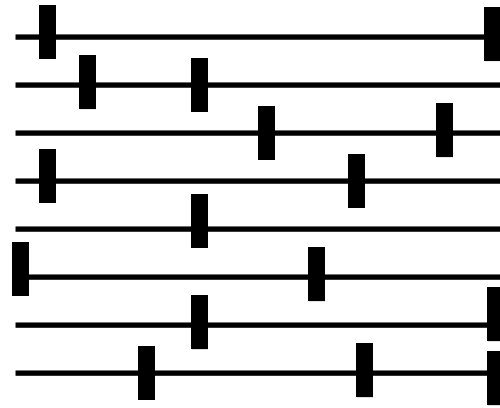


$D < 0$

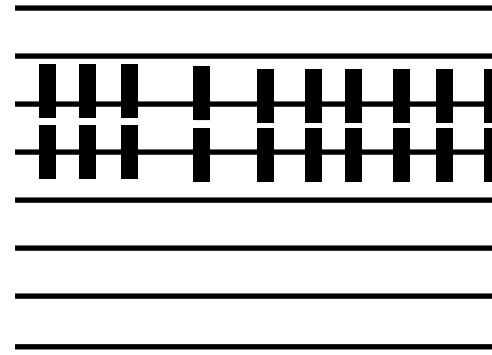


$D > 0$

## Haplotype Tests



$S = 10$   
 $nhap = 8$

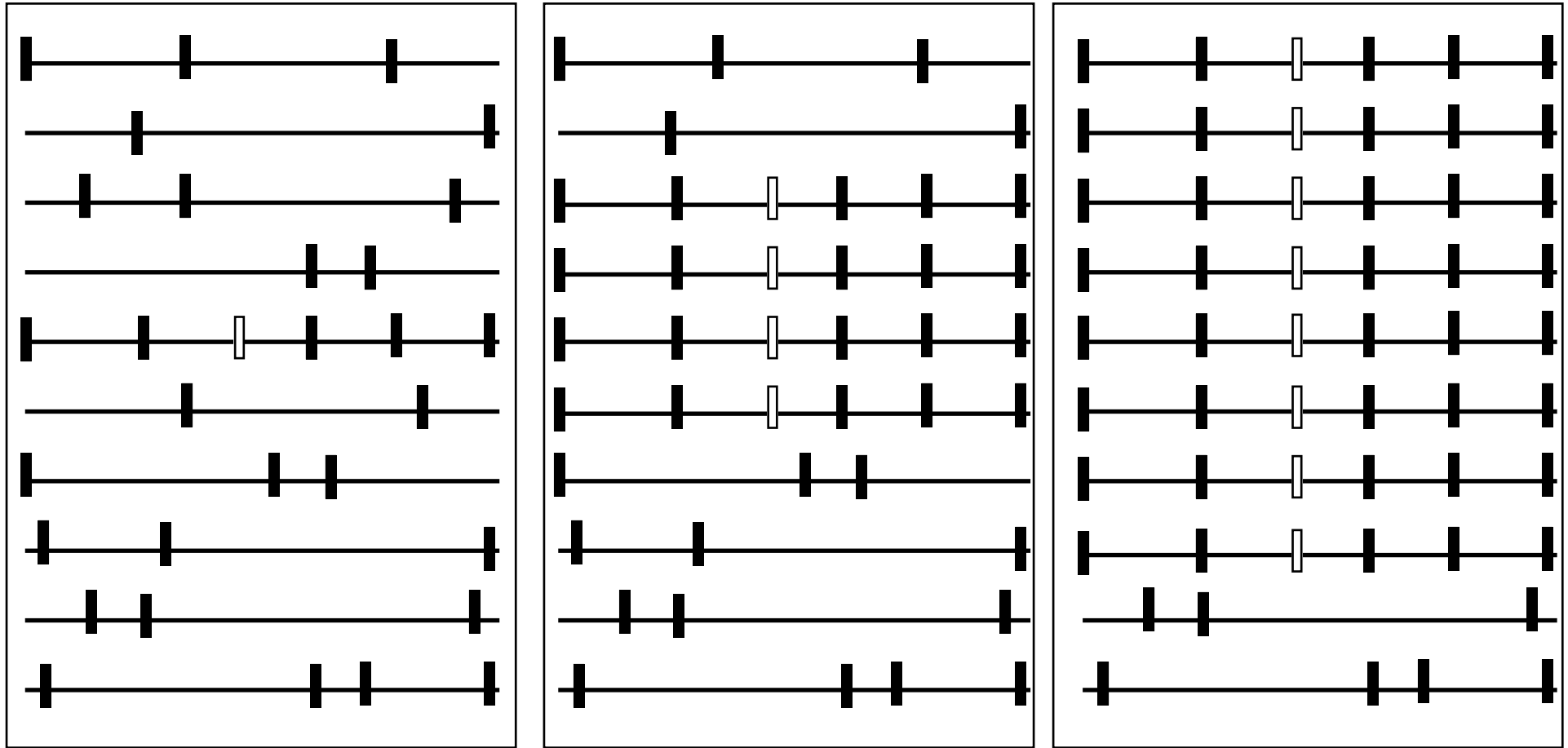


$S = 10$   
 $nhap = 2$

Probability of observing 2 or fewer  
haplotypes given a sample of 8 sequences  
with 10 segregating sites,  $P = 0.01$

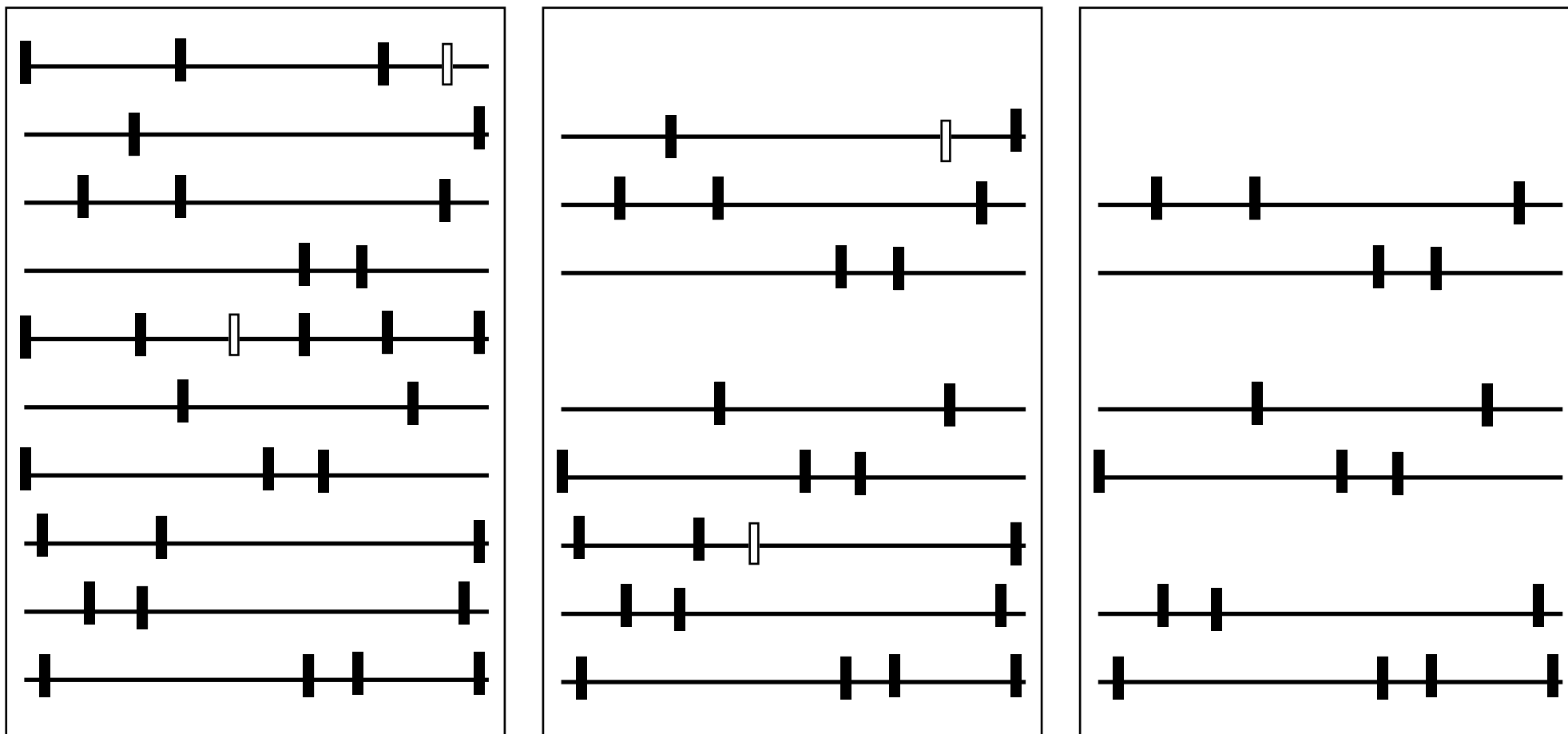
Probability of observing a subset of 6  
sequences with 0 segregating sites given a  
sample of 8 sequences with 10 segregating  
sites,  $P = 0.02$

# Genetic hitchhiking/Selective sweep



Time

# Background Selection



Time