

## Input/Output

## Method

observed  
counts

$c, ce$

$c, ce$

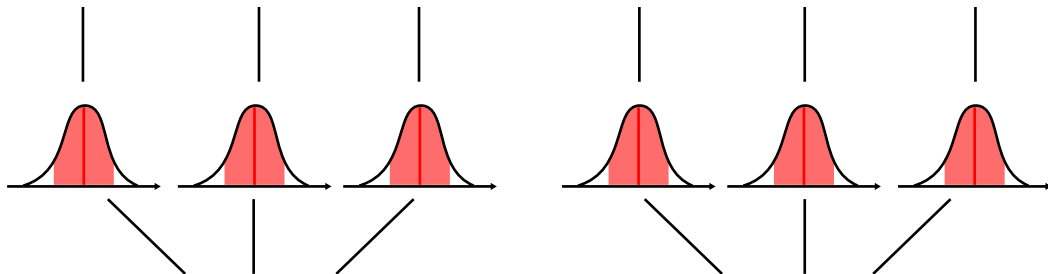
$c, ce$

$c, ce$

$c, ce$

$c, ce$

posterior  
probability for  
expression



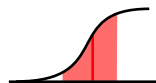
Multinomial model over  
 $\Pr(\text{exact call}),$   
 $\Pr(\text{corrected call}),$   
 $\Pr(\text{exact miscall}),$   
 $\Pr(\text{corrected miscall}),$   
 $\Pr(\text{dropout})$

posterior probability  
for mean and variance  
in groups of cells



Dynamic programming  
over sampled CDFs

posterior probability  
for fold change or  
coefficient of variation



Dynamic programming  
over sampled CDFs