

# Decision

 $\widehat{H}_0$ 

fail to reject  
null hypothesis

 $\widehat{H}_a$ 

reject  
null hypothesis

 $H_0$ 

null hypothesis  
is true

True Negative

False Positive  
*Type I Error*

 $H_a$ 

alternative  
hypothesis  
is true

False Negative  
*Type II Error*

True Positive  
*Power*

Ground Truth