

# Differential Expression

## Statistical Models

Account for biological and technical variability

## Negative Binomial

Models count data with overdispersion

## Fold Change Thresholds

Typically  $|\log_2\text{FC}| > 1$  for biological significance

## FDR Control

False Discovery Rate  $< 0.05$  for multiple testing

## Volcano Plots

Visualize FC vs statistical significance



Balance statistical significance with biological relevance