Wild-type Mutant A Read Sequencing Read quantification (Kallisto) $\log\left(\begin{array}{c} \bullet \\ \bullet \end{array}\right) = \log\left(\begin{array}{c} \bullet \\ \bullet \end{array}\right) + \beta_A$ $\beta_A = \log\left(\begin{array}{c} \\ \end{array}\right) - \log\left(\begin{array}{c} \\ \end{array}\right)$ Differential Expression $\beta_A = \log(\square)$ (Sleuth) $\log(1) \simeq \log (\text{Fold Change})$ Principal Component **Epistasis** Analysis Coefficient Downstream Analyses **Enrichment Analysis**