

TABLE S1: Goodness of fit test results

Alternative Hypothesis	p-value
GLM-NB > Poisson	0.000
ZIP > Poisson	0.000
ZINB > GLM-NB	0.660
GLM-NB > HNB	0.046

GLM-NB = generalized linear model with negative binomial distribution

Poisson = generalized linear model with Poisson distribution

ZIP = zero-inflated poisson model

ZINB = zero-inflated negative binomial model

HNB = negative binomial hurdle model