

# Use the GLM, Luke.

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## **1 Introduction**

### **1.1 Generalized Linear Models**

## **2 Methods**

### **2.1 Simulation scenarious**

### **2.2 Simulations based on real data**

## **3 Results**

### **3.1 Simulation scenarious**

### **3.2 Simulations based on real data**

## **4 Discussion**

## **5 Conclusion**

## **A Tipps (Or move up to introduction?) Check distribution Plot mean variance relationship**

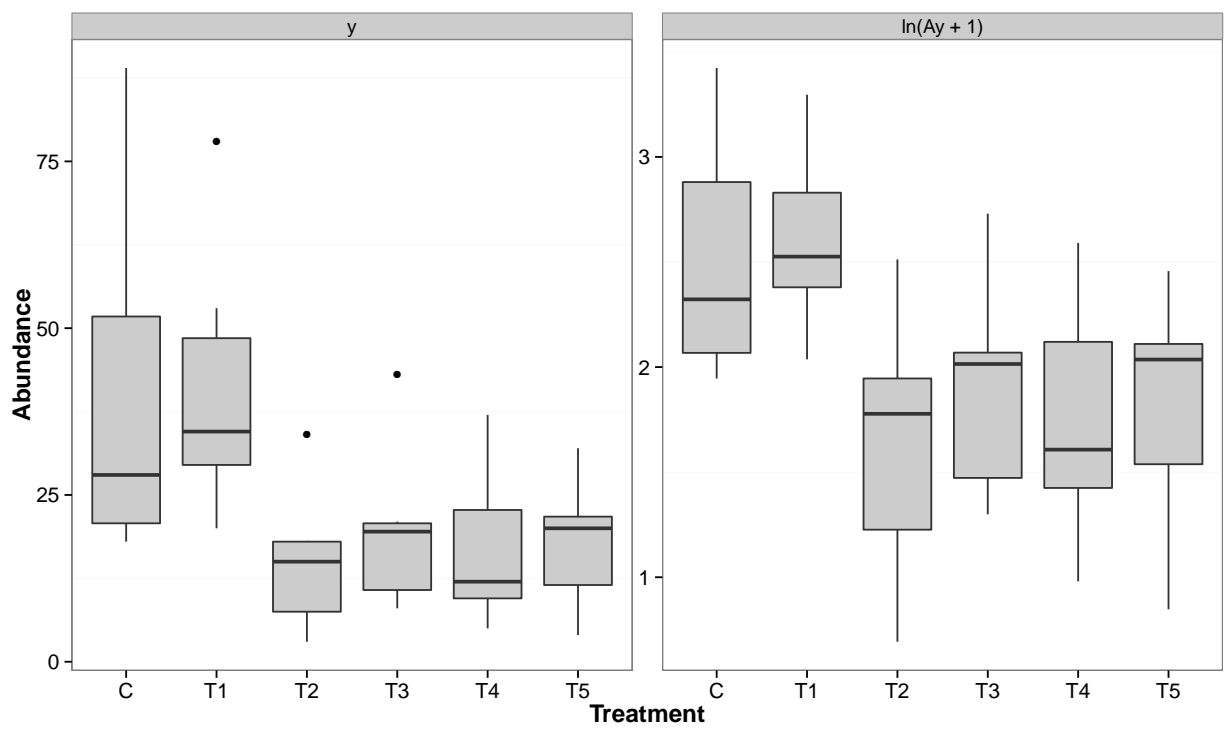


Figure 1: One realisation of simulated data ( $N = 6$ ,  $\mu_c = 31.6$ ). Left panel show raw counts, right panel  $\log(A \cdot x + 1)$  transformed counts.