

hw12

Noel Lim (PID: A17652474)

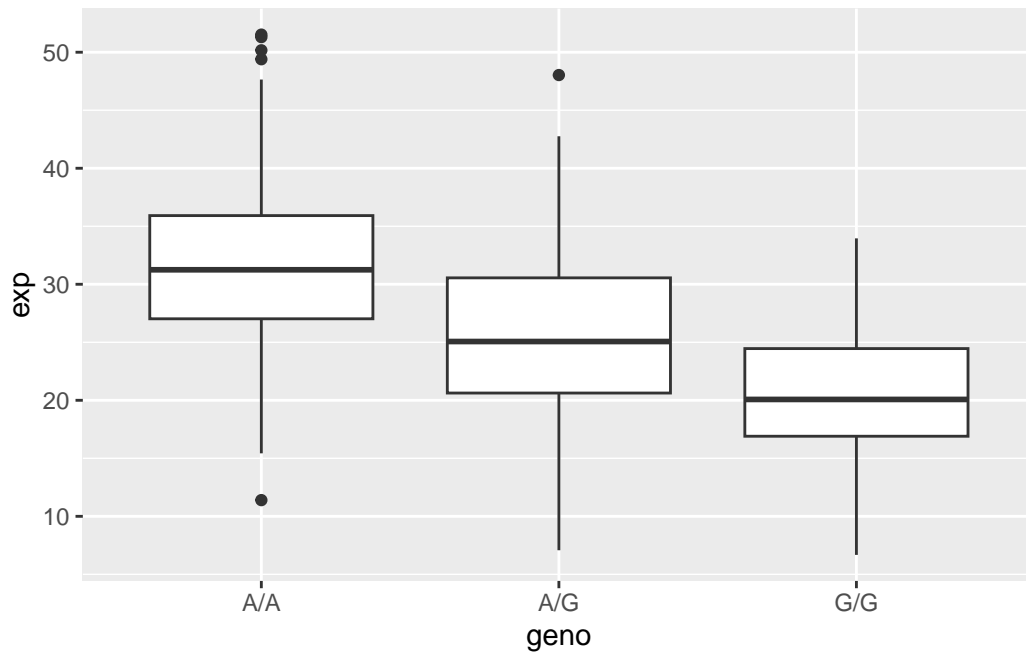
```
data <- read.table("data.txt")
```

Question 13

```
table(data$geno)
```

```
A/A A/G G/G  
108 233 121
```

```
library(ggplot2)  
ggplot(data) + aes(x=geno, y=exp) + geom_boxplot()
```



```
AA <- subset(data, geno=="A/A")
AG <- subset(data, geno=="A/G")
GG <- subset(data, geno=="G/G")
```

```
median(AA$exp)
```

```
[1] 31.24847
```

```
median(AG$exp)
```

```
[1] 25.06486
```

```
median(GG$exp)
```

```
[1] 20.07363
```

Question 14

AA has higher expression than GG but the error bars overlap, therefore these two groups are not statistically different so SNP does not have an effect on expression of ORMDL3