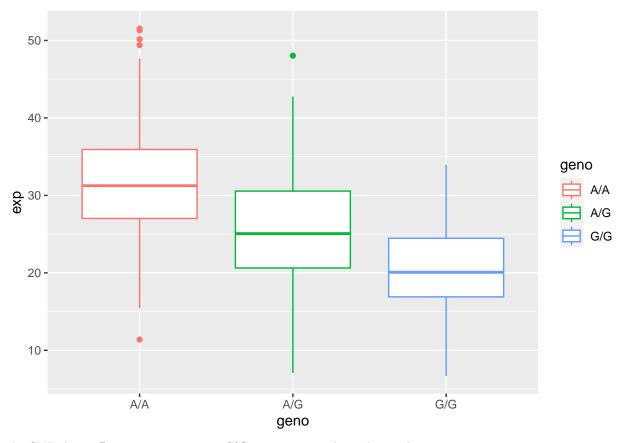
## Population Analysis (Q13 & Q14)

## Lena (A16420052)

## 2023-11-11

## Section 4: Population Scale Analysis

```
expr <- read.table("rs8067378_ENSG00000172057.6.txt")</pre>
head(expr)
##
      sample geno
## 1 HG00367 A/G 28.96038
## 2 NA20768 A/G 20.24449
## 3 HG00361 A/A 31.32628
## 4 HG00135 A/A 34.11169
## 5 NA18870 G/G 18.25141
## 6 NA11993 A/A 32.89721
#how many individuals there are
nrow(expr)
## [1] 462
#how many of each genotype
table(expr$geno)
##
## A/A A/G G/G
## 108 233 121
Summary Figure
Using ggplot which function(); grooup by
library(ggplot2)
ggplot(expr, aes(geno, exp, col= geno)) + geom_boxplot()
```



The SNP does affect gene expression;  $\mathbf{G}|\mathbf{G}$  genotype results in lowered expression.