

QBS103_Final_Project

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Importing packages

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v ggplot2    3.5.2      v tibble    3.3.0
## v lubridate  1.9.4      v tidyr     1.3.1
## v purrr      1.0.4
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
##
## Attaching package: 'reshape2'
##
##
## The following object is masked from 'package:tidyr':
##
##   smiths
##
##
## Attaching package: 'kableExtra'
##
##
## The following object is masked from 'package:dplyr':
##
##   group_rows
```

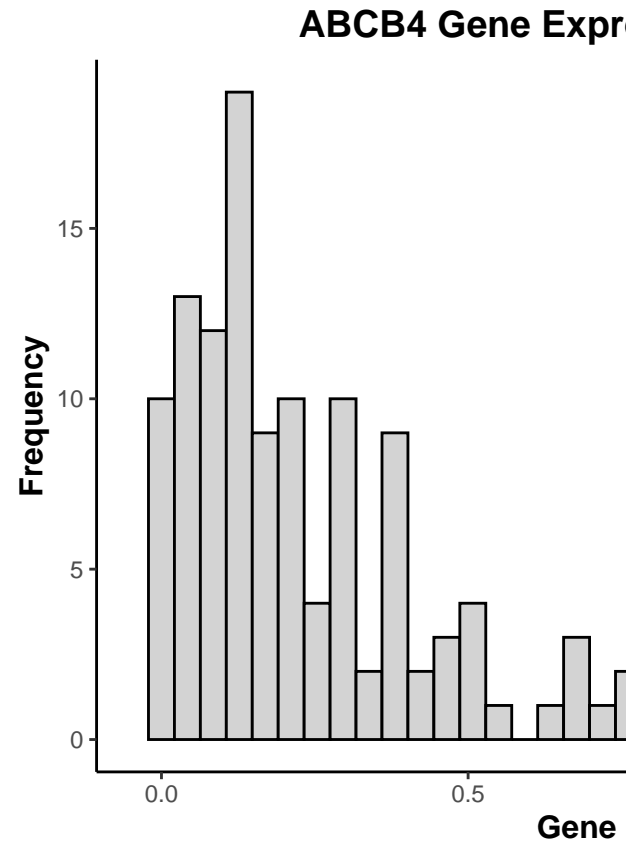
Importing and tidying data

```
## New names:
## Rows: 100 Columns: 127
## -- Column specification
## ----- Delimiter: "," chr
## (1): ...1 dbl (126): COVID_01_39y_male_NonICU, COVID_02_63y_male_NonICU,
## COVID_03_33y_...
## i Use 'spec()' to retrieve the full column specification for this data. i
## Specify the column types or set 'show_col_types = FALSE' to quiet this message.
## Rows: 126 Columns: 25
## -- Column specification
```

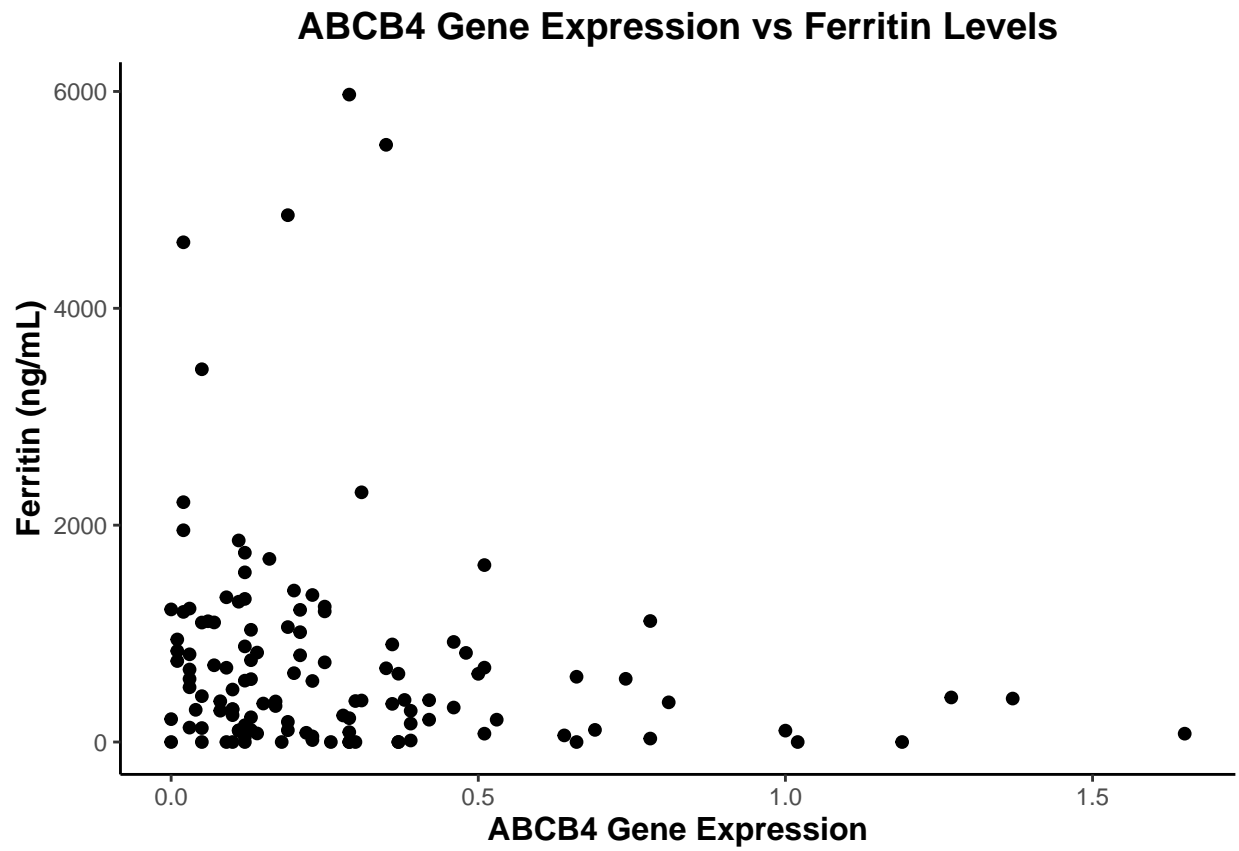
```
## ----- Delimiter: "," chr
## (21): participant_id, geo_accession, status, !Sample_submission_date, la... dbl
## (4): channel_count, charlson_score, ventilator-free_days, hospital-free...
## i Use 'spec()' to retrieve the full column specification for this data. i
## Specify the column types or set 'show_col_types = FALSE' to quiet this message.
## * '' -> '...1'
```

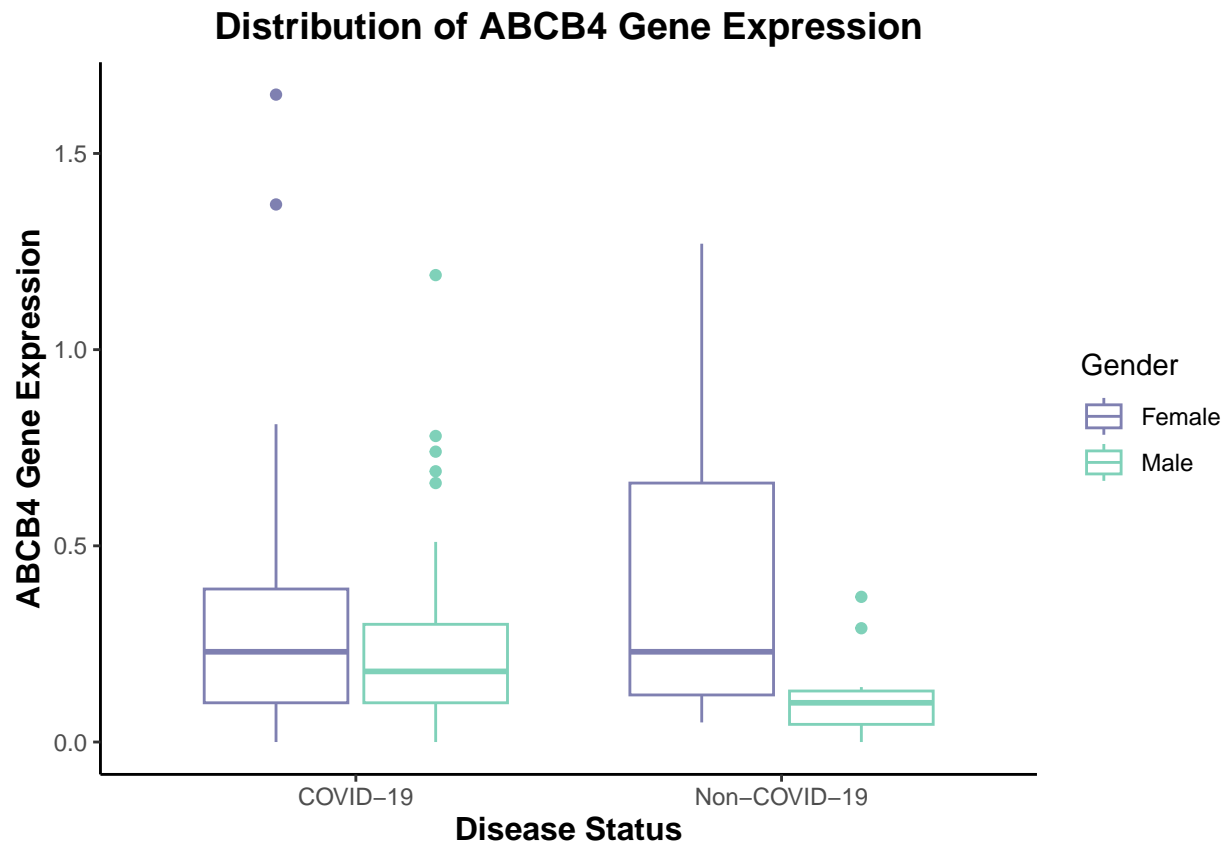
```
## Warning: NAs introduced by coercion
```

Latex Table Generation. Code is commented to remove outputs.



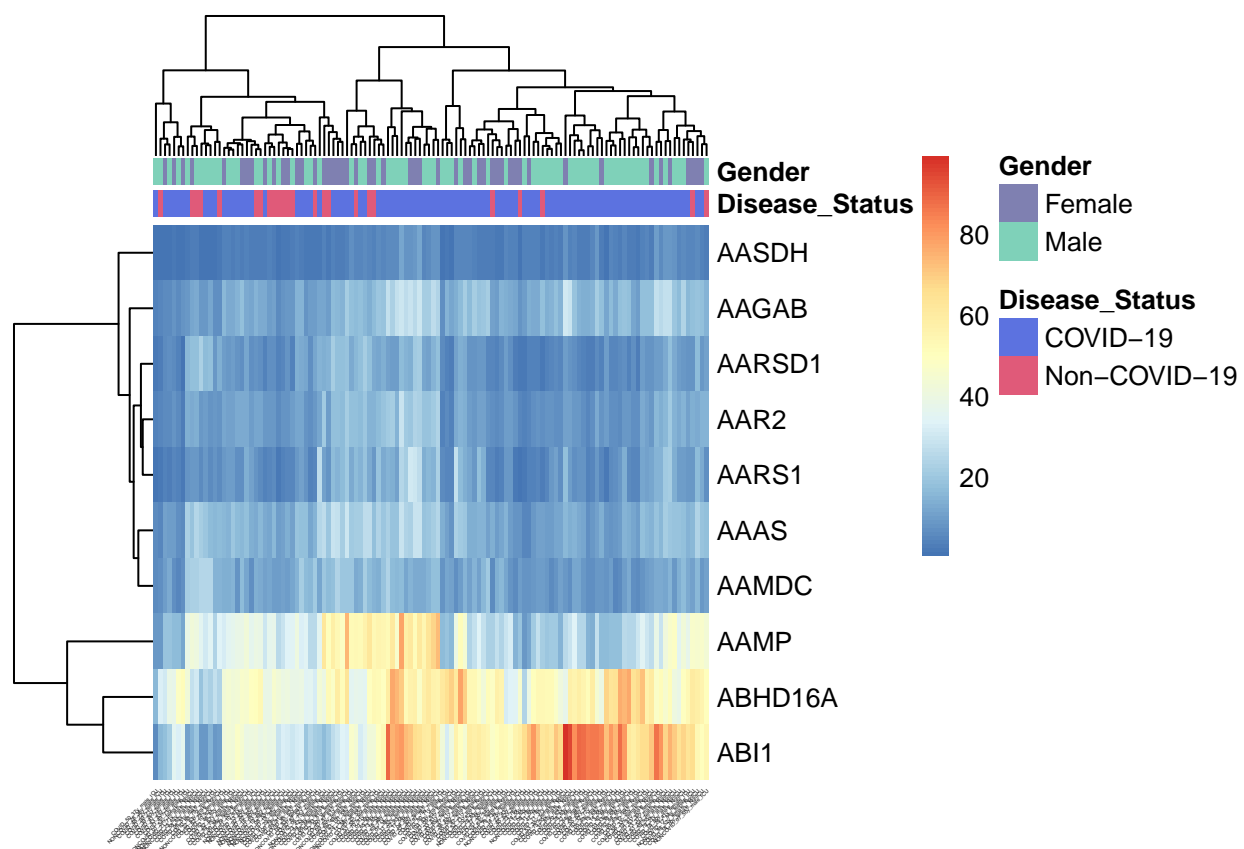
Histogram, scatterplot, and boxplot from submission 1 of gene ABCB4.



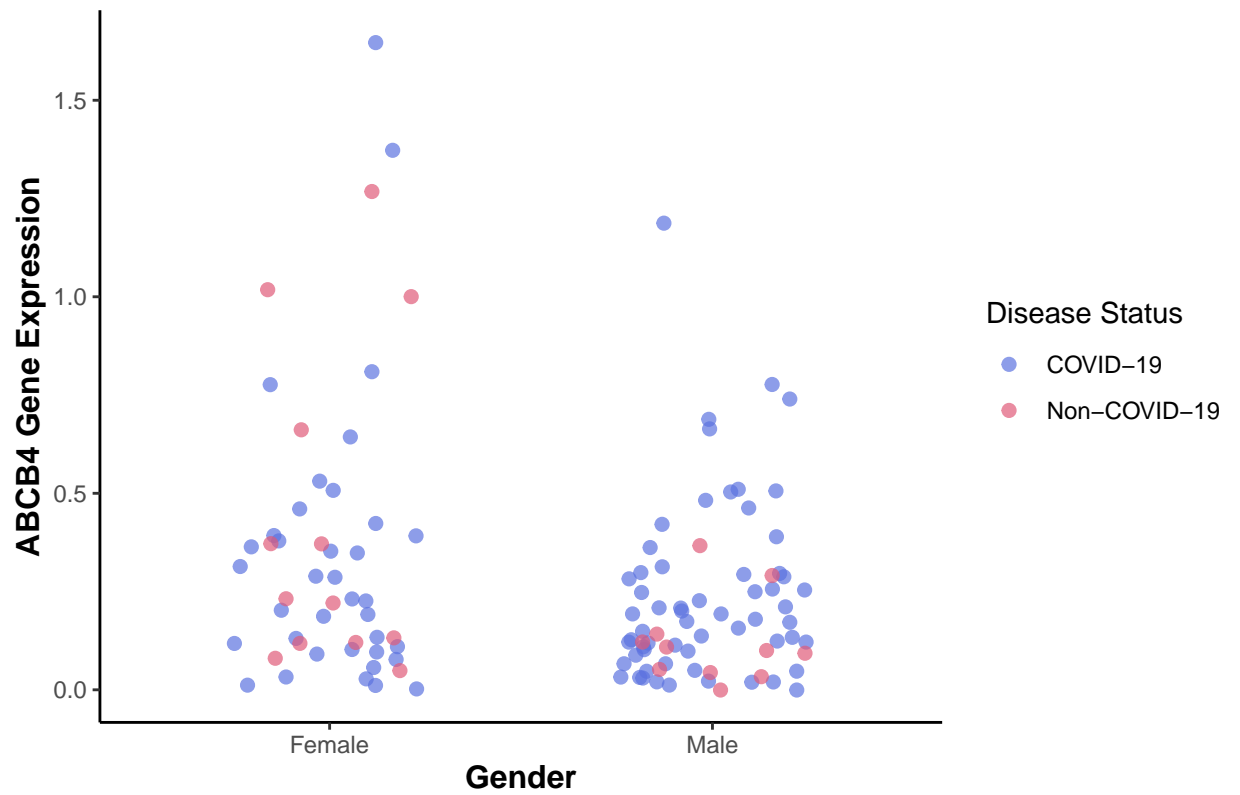


Heatmap of select genes

```
## Warning: Setting row names on a tibble is deprecated.
```



ABCB4 Expression Across Gender and Disease Status



Jitter plot