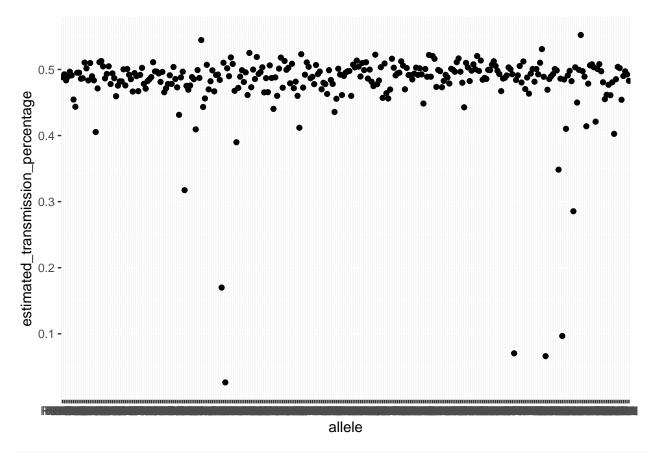
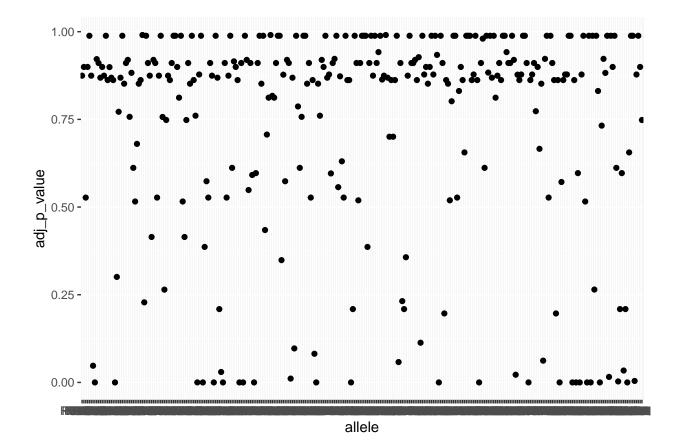
2023 Cleaned Graphics

Michelle Bang

2023-03-13



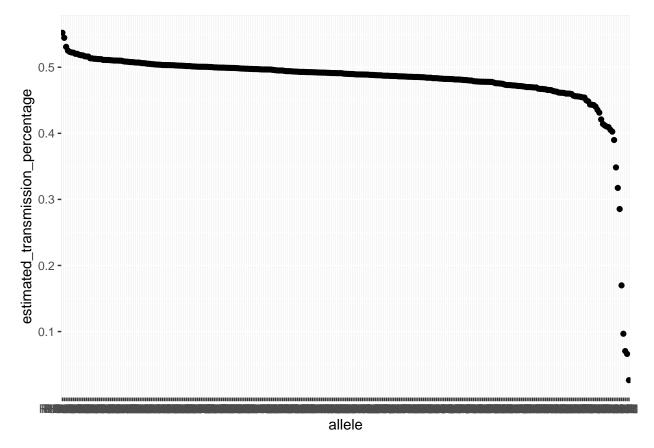


#ADDITIONAL REQUESTS FROM JOHN (02/28)

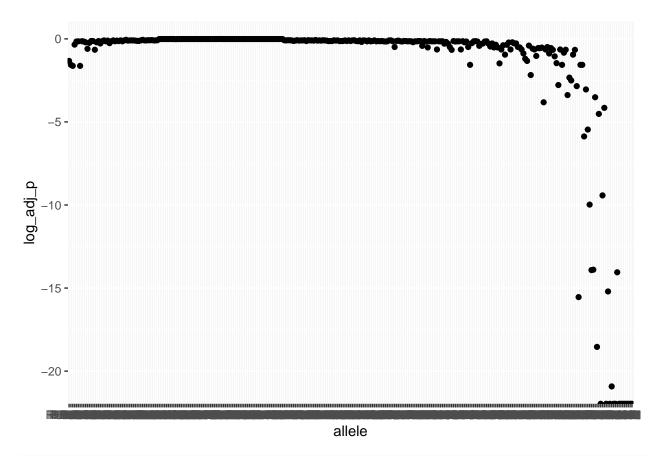
```
ordered_df <- asn %>%
  arrange(desc(estimated_transmission_percentage))
```

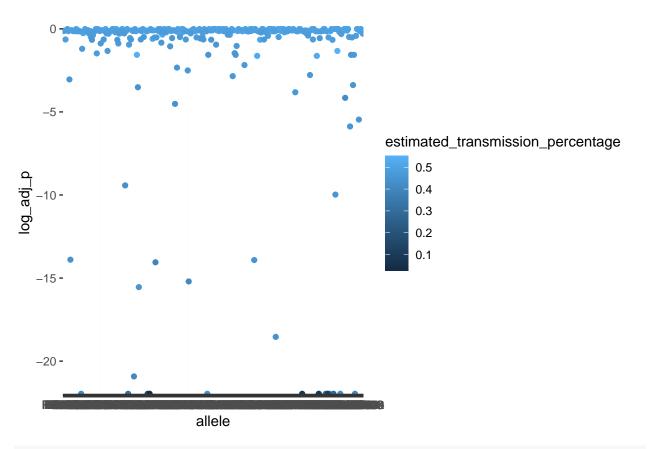
```
write.table(ordered_df, file = "2023_cleaned_analysis_ordered.tsv", sep = "\t", row.names=FALSE)
```

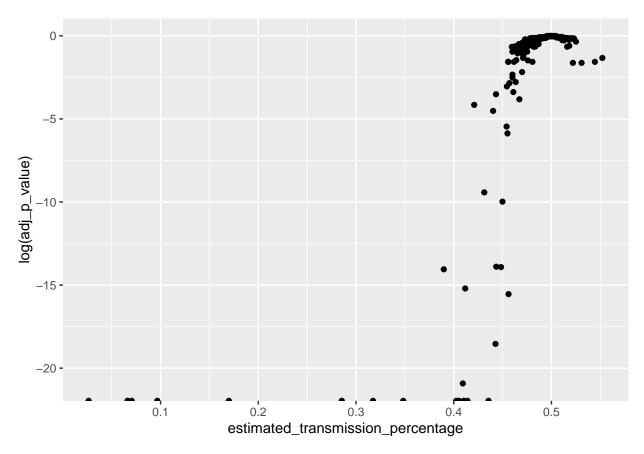
GRAPHS

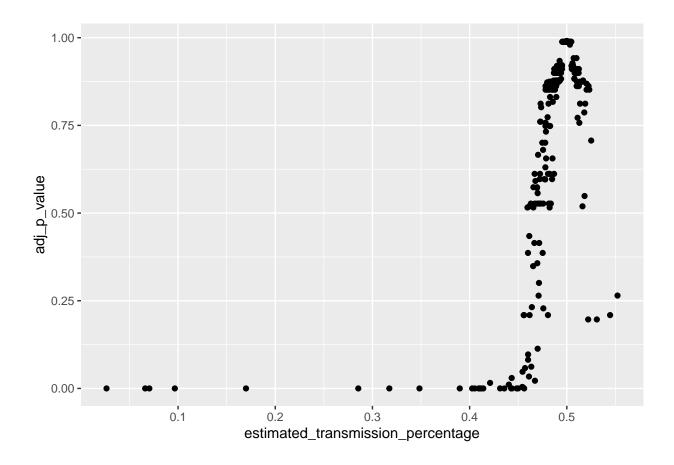


```
with_log_df <- ordered_df %>%
mutate(log_adj_p = log(adj_p_value)) %>%
#only R187B08 had log(adj_p_value) of 0
mutate(log_adj_p = if_else(log_adj_p == 0, 1.0*10^(-15), log_adj_p))
```





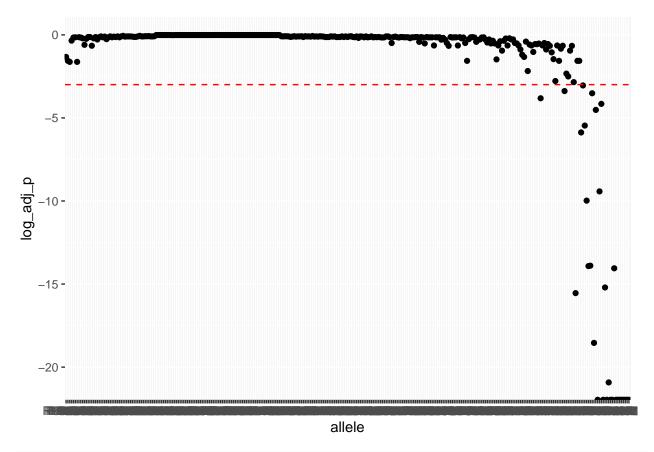


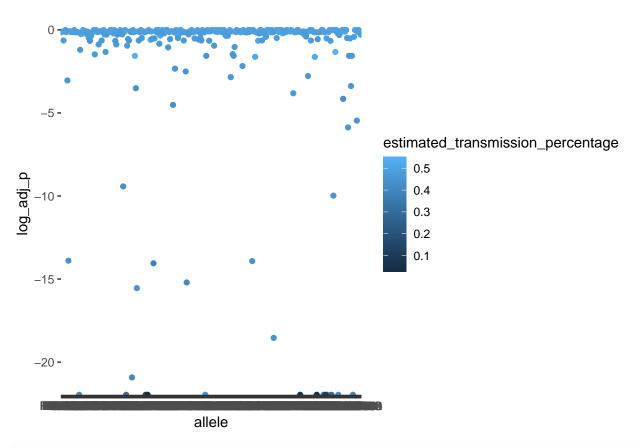


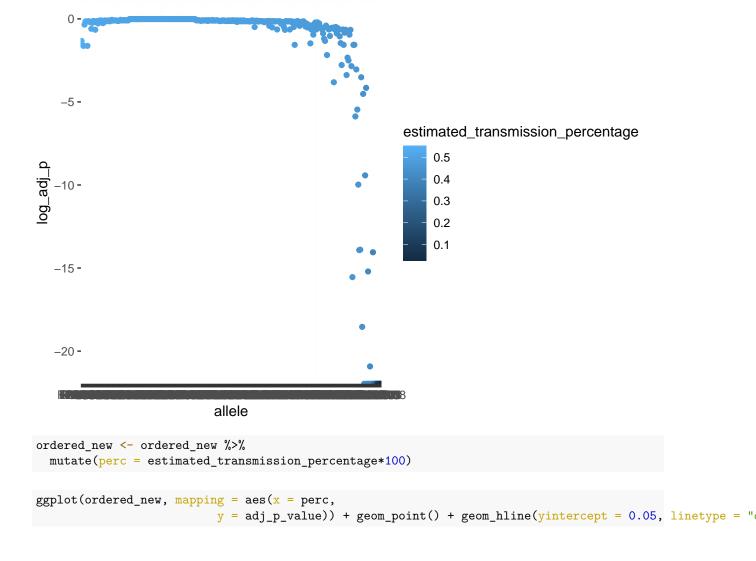
```
#NEW GRAPHICS...
```

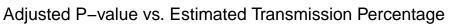
color = "red")

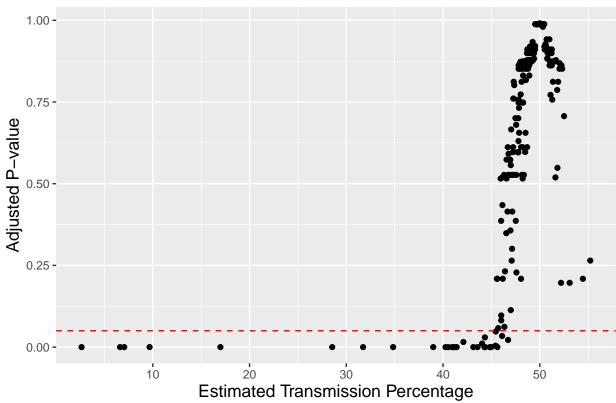
```
ordered_new <- ordered_df %>%
  arrange(desc(estimated_transmission_percentage))
ordered_plot_new <- ggplot(ordered_new, mapping = aes(x = allele,</pre>
                           y = estimated_transmission_percentage )) + geom_point()
ordered_plot_new + scale_x_discrete(limits = ordered_new[["allele"]]) + geom_hline(yintercept = .5, lin
estimated_transmission_percentage
  0.1 -
                                               allele
with_log_df_new <- ordered_new %>%
  mutate(log_adj_p = log(adj_p_value)) %>%
  #only R187B08 had log(adj_p_value) of 0
  mutate(log_adj_p = if_else(log_adj_p == 0, 1.0*10^(-15), log_adj_p))
ordered_log_new <- ggplot(with_log_df_new, mapping = aes(x = allele,
                           y = log_adj_p)) + geom_point()
ordered_log_new + scale_x_discrete(limits = ordered_new[["allele"]]) + geom_hline(
  yintercept = log(.05),
  linetype = "dashed",
```

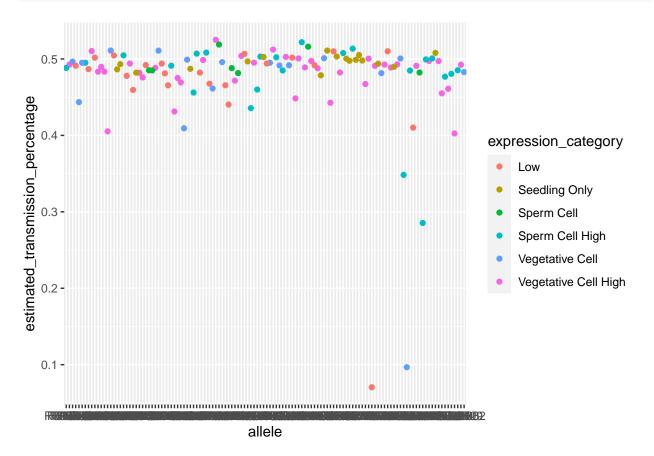


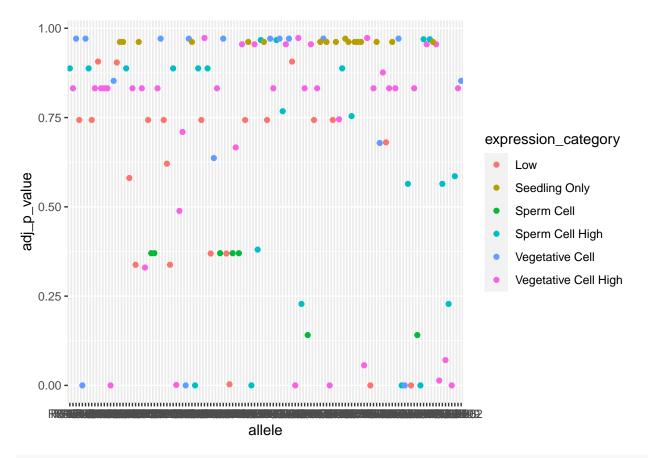


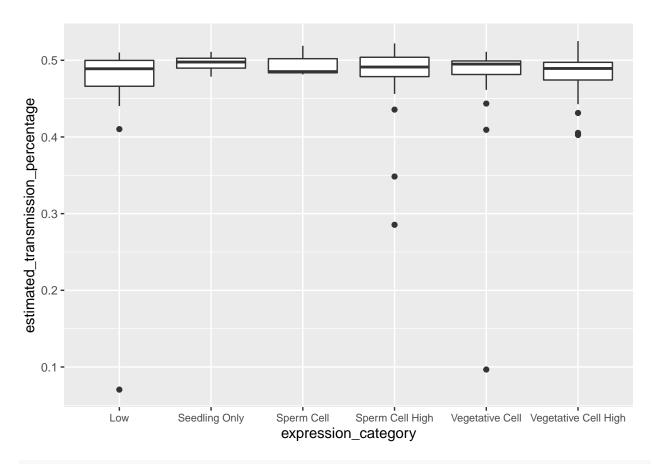


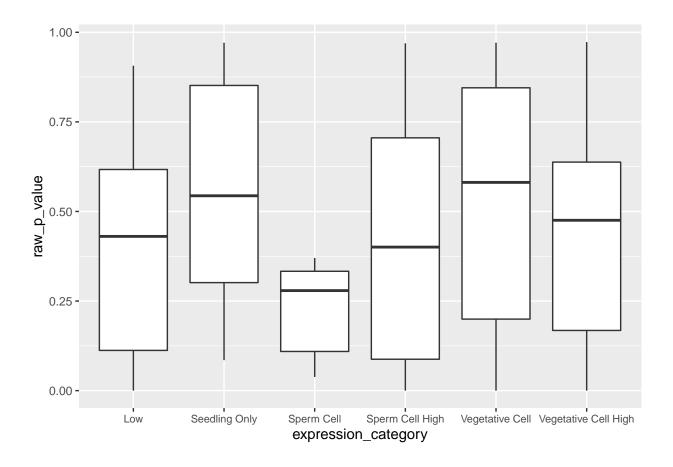










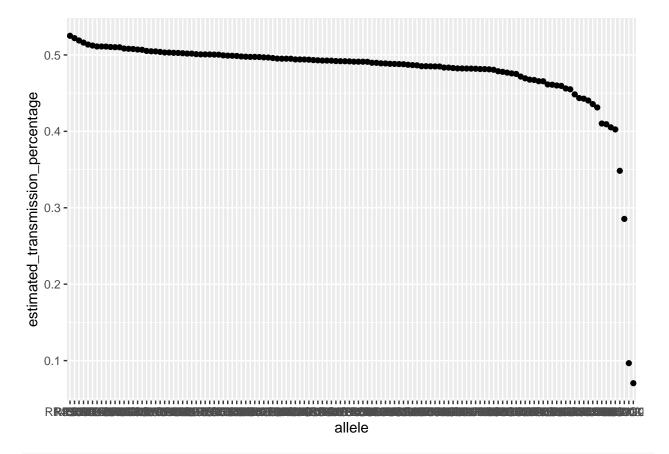


#ADDITIONAL REQUESTS FROM JOHN (02/28)

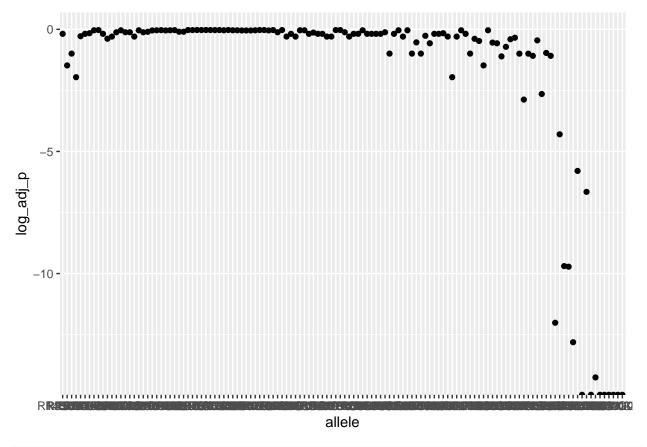
```
ordered_df <- asn_pcr %>%
  arrange(desc(estimated_transmission_percentage))
```

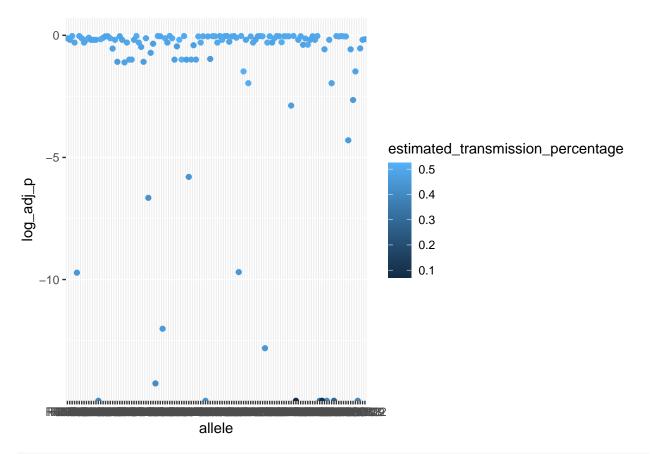
```
write.table(ordered_df, file = "2023_cleanPCR_analysis_ordered.tsv", sep = "\t", row.names=FALSE)
```

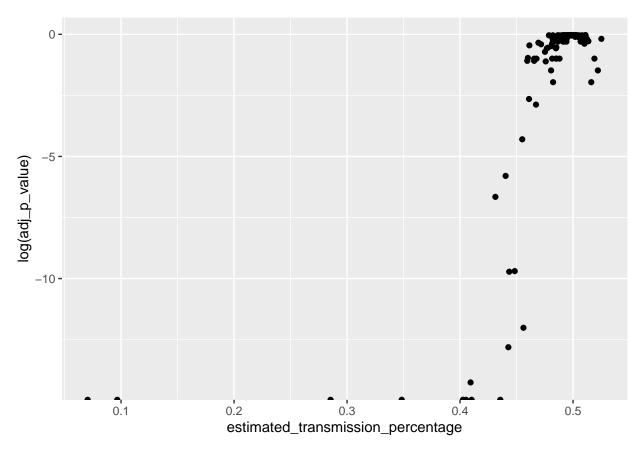
GRAPHS

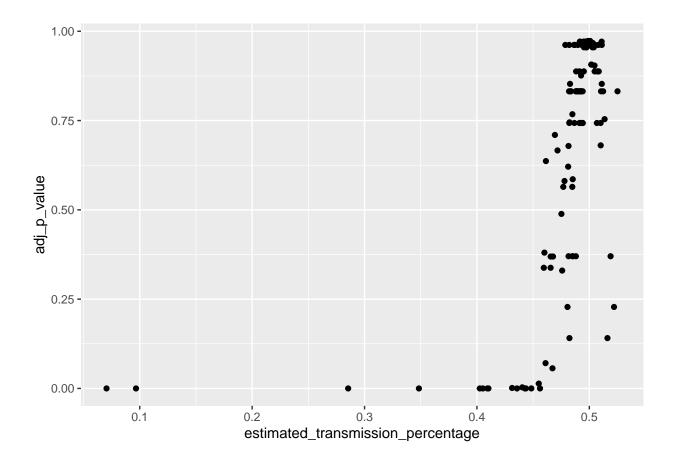


```
with_log_df <- ordered_df %>%
mutate(log_adj_p = log(adj_p_value)) %>%
#only R187B08 had log(adj_p_value) of 0
mutate(log_adj_p = if_else(log_adj_p == 0, 1.0*10^(-15), log_adj_p))
```



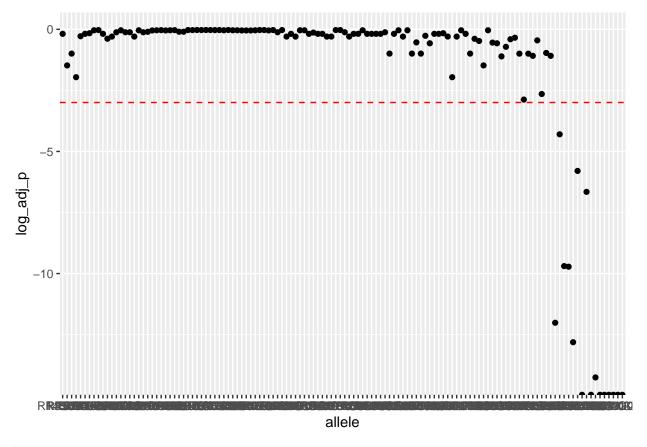


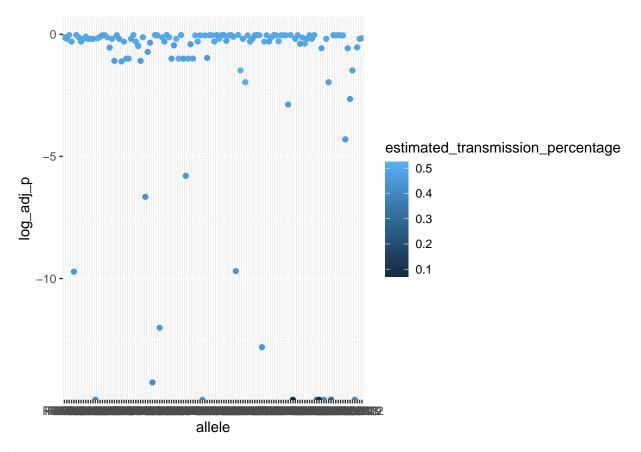


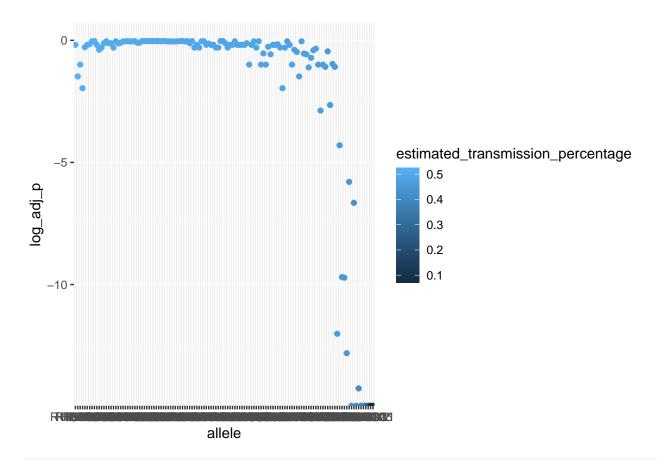


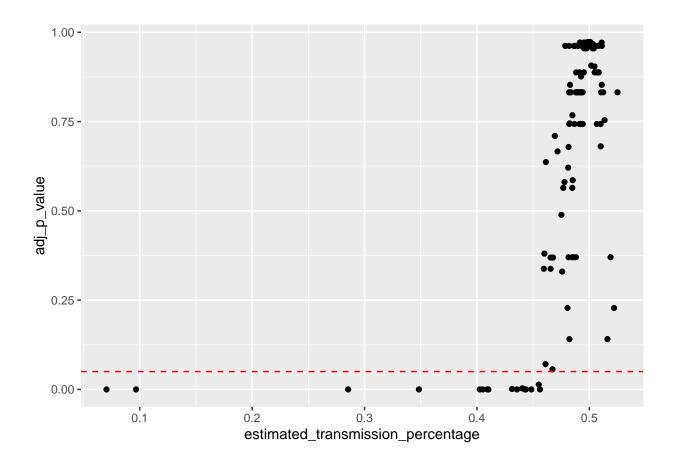
```
#NEW GRAPHICS...
```

```
ordered_new <- ordered_df %>%
  arrange(desc(estimated_transmission_percentage))
ordered_plot_new <- ggplot(ordered_new, mapping = aes(x = allele,</pre>
                           y = estimated_transmission_percentage )) + geom_point()
ordered_plot_new + scale_x_discrete(limits = ordered_new[["allele"]]) + geom_hline(yintercept = .5, lin
estimated_transmission_percentage
  0.4
  0.2 -
  0.1 -
                                               allele
with_log_df_new <- ordered_new %>%
  mutate(log_adj_p = log(adj_p_value)) %>%
  #only R187B08 had log(adj_p_value) of 0
  mutate(log_adj_p = if_else(log_adj_p == 0, 1.0*10^(-15), log_adj_p))
ordered_log_new <- ggplot(with_log_df_new, mapping = aes(x = allele,
                           y = log_adj_p)) + geom_point()
ordered_log_new + scale_x_discrete(limits = ordered_new[["allele"]]) + geom_hline(
  yintercept = log(.05),
  linetype = "dashed",
color = "red")
```



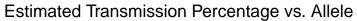


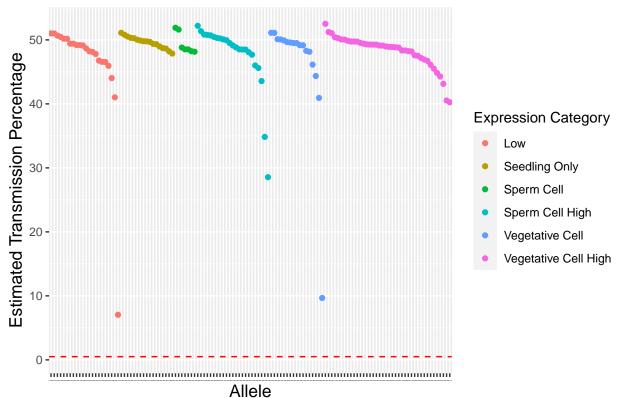


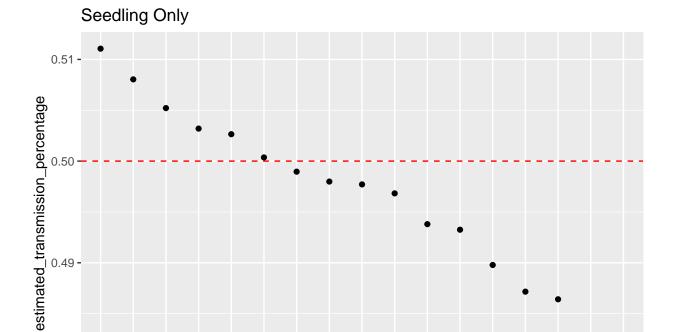


```
ordered_new$expression_category <- factor(ordered_new$expression_category, levels = c("Seedling Only",
ordered_plot_new <- ggplot(ordered_new, mapping = aes(x = allele,</pre>
                                                                      y = estimated_transmission_percentage, color = expression_category )) + geom_
ordered_plot_new + scale_x_discrete(limits = ordered_new[["allele"]]) + geom_hline(yintercept = .5, lin
estimated_transmission_percentage
                                                                                                                                                                                     expression_category
                                                                                                                                                                                                Seedling Only
                                                                                                                                                                                                Low
                                                                                                                                                                                                Sperm Cell
                                                                                                                                                                                                 Sperm Cell High
                                                                                                                                                                                                Vegetative Cell
                                                                                                                                                                                                 Vegetative Cell High
       0.1 -
                 allele
grouped_new <- ordered_df %>%
     arrange(expression_category)
#below does not work...?
#grouped_new <- ordered_df %>%
      \#arrange(factor(grouped\_new\$expression\_category, levels = c("Seedling Only", "Low", "Sperm Cell", 
grouped_new <- grouped_new %>%
     mutate(perc = estimated_transmission_percentage*100)
#grouped_new$expression_category <- factor(grouped_new$expression_category, levels = c("Seedling Only",
grouped_plot_new <- ggplot(grouped_new, mapping = aes(x = allele,
                                                                      y = perc, color = expression_category )) + geom_point()
\#grouped\_plot\_new
grouped_plot_new + scale_x_discrete(limits = grouped_new[["allele"]]) + geom_hline(yintercept = .5, lin
```

#Additional Request from John 03/09

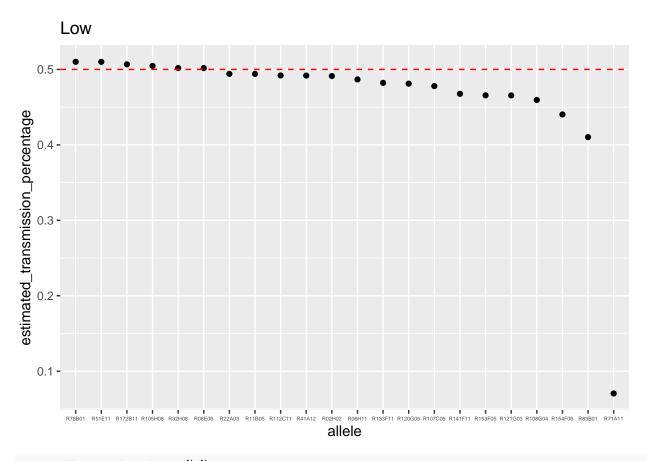


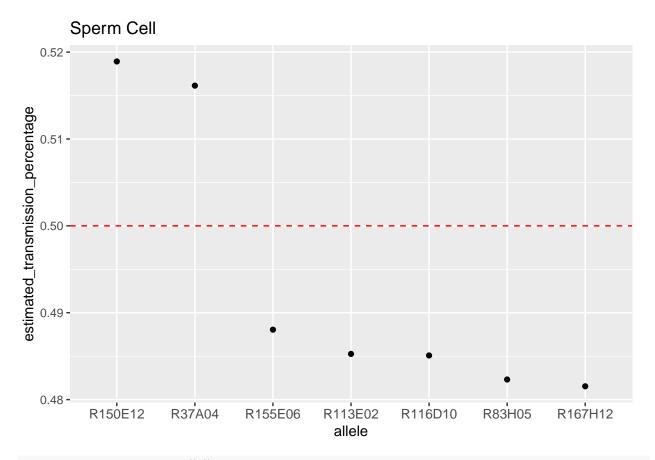


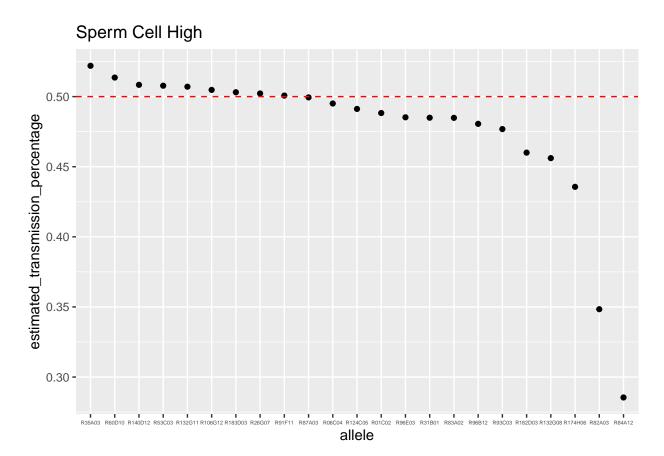


0.48 -

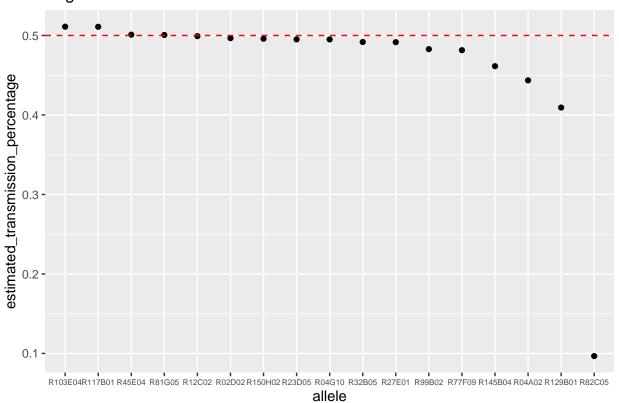
R46C04 R91G06 R65A10 R52B09 R21D01 R53F11 R63F09 R65E02 R59F11 R172F04 R76E07 R106F04 R80E09 R12H07 R106E07R110H08 R44E07 **allele**



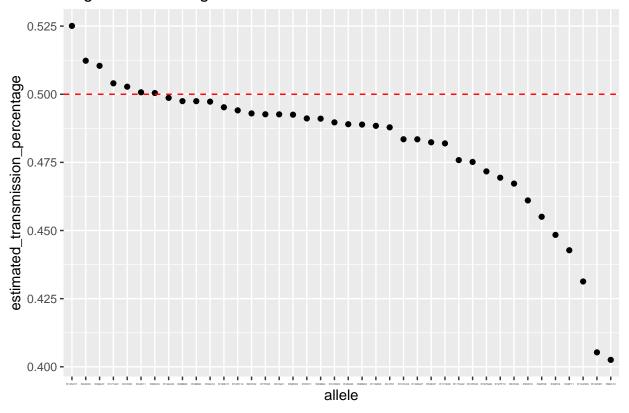




Vegetative Cell



Vegetative Cell High



```
ordered_new %>%
  group_by(expression_category) %>%
  summarize(count = n())
```

```
## # A tibble: 6 x 2
     expression_category
                           count
##
     <fct>
                           <int>
## 1 Seedling Only
                              17
                              22
## 2 Low
## 3 Sperm Cell
                               7
## 4 Sperm Cell High
                              23
## 5 Vegetative Cell
                              17
## 6 Vegetative Cell High
                              40
```

```
count_df <- ordered_df %>%
  mutate(expression_category = if_else(expression_category == "Seedling Only", "Seedling Only (17)", ex
  mutate(expression_category = if_else(expression_category == "Low", "Low (22)", expression_category))
  mutate(expression_category = if_else(expression_category == "Sperm Cell", "Sperm Cell (7)", expression
  mutate(expression_category = if_else(expression_category == "Sperm Cell High", "Sperm Cell High (23)"
  mutate(expression_category = if_else(expression_category == "Vegetative Cell", "Vegetative Cell (17)"
  mutate(expression_category = if_else(expression_category == "Vegetative Cell High", "Vegetative Cell (17)")
```

