05_InClass_Assignment_RMarkdown

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Clickable link to the manuscript

DOI

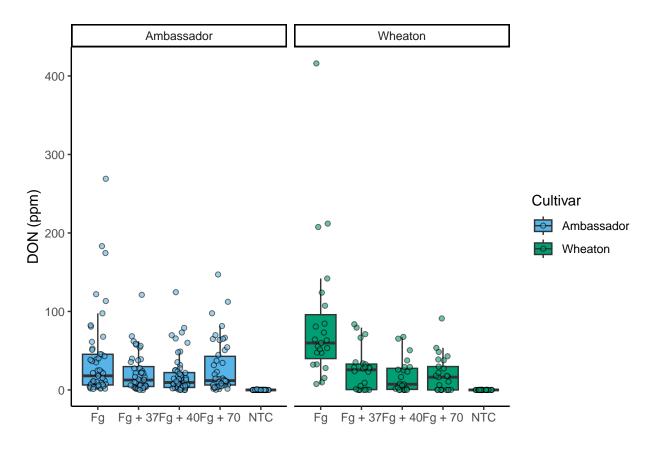
Read data

Plot DON

```
alpha = 0.6 )+
#giving shape to fill the color and dodge away from the bar plot, alpha value provides transparency t
scale_fill_manual(values = cbbPalette)+
theme_classic()+
xlab("")+
ylab("DON (ppm)")+
facet_wrap(~Cultivar)
#facet wrap according to the Cultivar, here I didnot use scale free since all all the plot space is use
DON
```

Warning: Removed 8 rows containing non-finite outside the scale range
('stat_boxplot()').

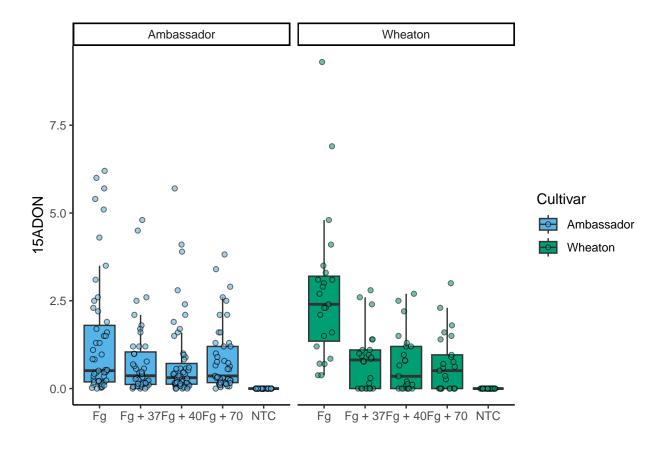
Warning: Removed 8 rows containing missing values or values outside the scale range
('geom_point()').



Plot X15ADON

```
## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat_boxplot()').
```

Warning: Removed 10 rows containing missing values or values outside the scale range
('geom_point()').

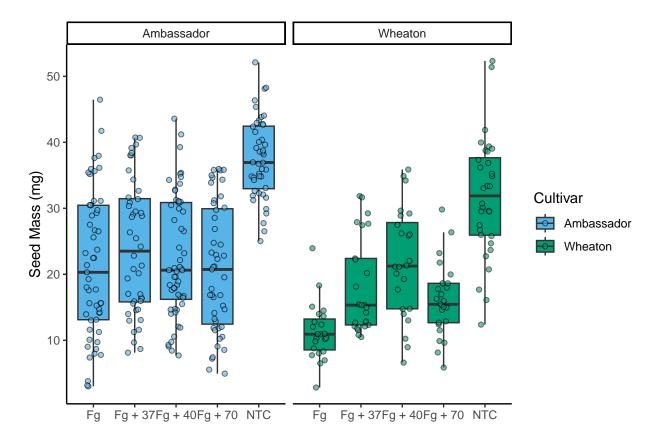


Plot Seed mass

```
#making y-axis as mass per seed
Seedmass <- ggplot(Mycotoxin, aes(Treatment,</pre>
```

```
## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat_boxplot()').
```

Warning: Removed 2 rows containing missing values or values outside the scale range
('geom_point()').



Combine plots

```
#load library
library(ggpubr)
DON stat <- DON+
  geom_pwc(aes(group = Treatment),
           method = "t.test",
           label = "{p.adj.format}.{p.adj.signif}",
           hide.ns = T)
# takes Treatment as a group to compare using t-test and provides label for p-adjusted value and signif
X15ADON_stat <- X15ADON+
  geom_pwc(aes(group = Treatment),
           method = "t.test",
           label = "{p.adj.format}.{p.adj.signif}",
           hide.ns = T)
Seedmass_stat <- Seedmass+</pre>
  geom_pwc(aes(group = Treatment),
           method = "t.test",
           label = "{p.adj.format}.{p.adj.signif}",
           hide.ns = T)
stat_plot <- ggarrange(</pre>
  DON_stat,
  X15ADON_stat,
  Seedmass_stat,
  ncol = 3,
  nrow = 1,
 labels = c("A", "B", "C"), #we can also provide label to the plot manually
  common.legend = T
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_boxplot()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_pwc()').
## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom_point()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_boxplot()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_pwc()').
## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom_point()').
```

```
## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat_boxplot()').

## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat_pwc()').

## Warning: Removed 10 rows containing missing values or values outside the scale range
## ('geom_point()').

## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat_boxplot()').

## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat_pwc()').

## Warning: Removed 2 rows containing missing values or values outside the scale range
## ('geom_point()').
```

stat_plot

