**RStudio Lab Week 3 - RCBD ANOVA**

This lab will test your understanding of the Randomised Complete Block Design (RCBD) ANOVA in R. The data in this quiz consists of yields from 3 different varieties of oats grown on 6 separate plots of land. We are interested in finding out if there is any difference in the yield between the different varieties of oats.

Instructions:

1. Make sure that you have downloaded the dataset ‘oat\_variety.csv’.
2. Copy the dataset into your student drive.
3. Make sure you have opened RStudio.
4. Set your working directory to your student drive by using Session – Set working directory – Choose directory, and navigate to your student drive (or wherever you have saved the dataset for this quiz).
5. Insert a new R Script, using File – New File – R Script OR by clicking the white page with the green + button and selecting R Script.
6. Import the ‘oat\_variety.csv’ dataset.
7. Find the mean yield for each variety of oat.
8. Find the variance in yields for each variety of oat.
9. Use the **aov()** function to fit a completely randomised block design ANOVA and store this in an object called **fit.** Hint: *formula = dependent variable ~ treatment variable + blocking variable*
10. Use the **summary()** function on the **fit** object to generate the ANOVA table.