Welcome to github folder for the Inesfly Paint Pesticide Study observing for survival and behavioral effects of bed bugs by Inesfly’s 5A-IGR and Chlorfenapyr paint. This file should help you to replicate the study. Alternatively, if you are a part of our team, it should help you to make any necessary edits or changes.

Data:

Survival Data:

The survival data can be found in csv’s in the “DATA” folder. Each is entered as “#DFS(A/B)”. The “#D” refers to the day after painting. Each data set was double entered so A refers to the first entry and B refers to the second entry. FS refers to “full study” data. Pilot data is also available upon request (dropbox). Temperature and Humidity data can be found in “InesflyTempHum.csv” and the amount of paint for each quadrant can be verified in the “InesflyPaintDistribution.csv” file.

The survival data is process and cleaned in the R code “InesflyPaint\_CleanFormat.R”.

**1-56**  Data is Imported

**57-126** The macro components of the data are corrected (columns and rows)

**127- 784** The individual data is corrected. Values that are not equal between the two data entries (127- 564). Insects hat “resurrected” or observed as dead and at a later time observed as living. (565-679) and considering missing values from bugs that escaped primary containment(680-705).

**706-784** Data is formatted for survival analysis (melt) and dates are added and status is made into series of binary dummy variables.

**785-790** Data is merged and exported as final “DataMelt.csv ”

Once the data is cleaned, the