

Prepulse Inhibition Protocol (PPI)

For experiment:

Turn on all 3 power switches on panel

Open Startle Reflex software on desktop

Go to File: choose Load Configuration

Open file: ppi.exp- enter OK

Go to Config., choose Chamber data- enter OK

Then Chamber 1- enter study name, mouse ID and any other notes,click OK, click on Next Chamber, and continue to enter information for each chamber. After all 4 chambers are done, click on OK

Go to File: choose Save Configuration

There will be a prompt: Replace existing ppi? NO

Save As- enter your exp. name. NOTE: each session has to have a new name ending with .exp

Then load your mice in their tubes, tape over the ends, place on plate and tighten screws .

Go to Run: choose Begin Experiment

After each session is done go to File: choose Save Data Note:you will have to rinse and dry the tubes between each session.

After all sessions are done, Exit, turn off all 3 power switches, and clean up.

For Data analysis:

Open Startle Reflex file on desktop

Go to File: choose Load Data, in window enter File name from list, click OK

Go to Data: choose Options, in window change all 3 Minimum values to 1, hit OK

Go to File: choose Save Data as ASCII, then Save As and give it a name. It can be the same name as the original experiment. The name should include .txt at the end. You should see a “saving data as” bar. When you save it, it’s saved in the Shortcut to Startle file.

Repeat “Load Data” through “ Save as” steps for each session.

Go to File: and Exit

To move file to server:

Open Shortcut to Startle file, drag text file(s) to Shortcut to McDonald Lab file, and exit startle file

Then move to either Blueshine or Greenshine iMac

On the desktop, open *Shortcut to McDonald Lab* file (on Blueshine) or McDonald Lab file (on Greenshine). Open the PPI.xls file. This is the template for all users, so go to File and rename it using Save As ...

Go to File : Open, click on desktop, McDonald Shortcut file, find data text and Open

In Text Import Wizard Step 1: click on delimited; click on Next, in step 2 click on space, then click Finish.

Repeat for all data texts. Note: under Window there will be a list of your files, and you can open them there.

Go to Edit: choose Move or Copy Sheet: in Move or Copy window, "To book"- choose your Excel file name and click OK. Your text file will show up as a worksheet at the bottom of the page.

Repeat move to Excel worksheet file for all text files

Go to Tools: choose Macro, then Macros, then choose PPI macro and hit Run

Repeat for each worksheet by clicking on each one at the bottom of the page.

Go to Summary (worksheet at bottom)

Highlight entire sheet where data will be copied, go to Edit, choose Replace

In the window: Find what: enter #REF

Replace with: worksheet name

Hit: Replace all

Then you'll enter the next set of data by highlighting the next 4 rows, and replace the first worksheet name with the next worksheet name. Delete any rows of data that you don't need. After you have entered all the worksheets, check the individual data entries in the worksheets, and delete any "0"s as a 0 indicates an equipment malfunction. The calculations will be re-done without the zeros.

And finally, Save before exiting.

Graphs can be done in the Excel program. Further statistical analysis is done by Copy/Paste into STATVIEW.