

Startle Reflex/PPI Protocol

- Allow 15-60 minutes for animal room acclimation
- Black box on 1st on the bottom of the cart
- Blue box on
- Log into the computer
- Weigh mice prior to loading in boxes
- Startle -> File -> Load config C Drive: Startle (Willot) -> Click on Data button -> Enter Animal ID, Study ID or any other information you need.

📽 Startle Reflex [configure experiment]	
File Hardware Config Data Run Graph Window About	
📰 Chamber 1	
Latency Peak Peak Startle Total: Average [Data] Config	
to Startle: Time: Value: Duration:	
Prepulse Period: 0 0 0 0 0 0	
Startle Period: 0 0 0 0 0	
Chamber 2	
Latency Peak Peak Startle Total: Average: Data Config. to Startle: Time: Value: Duration:	
Null Period: 0 0 0 0 0	
Prepulse Period: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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Written & edited by Mary J. Kando <u>mary.kando@northwestern.edu</u> Behavioral Phenotyping Core 5/11/16



- Config -> Experiment table
 - Make sure the correct table is uploaded
- Run -> Begin Experiment
- Run -> Post analysis
 - Data options:
 - Minimum latency (ms):20
 - Minimum Peak value: 50
 - Minimum peak time (ms): 30
 - o Load data window
 - Values at a particular time point
 - 1st column is time
 - 2nd column is value
- File -> Save data as
 - o Computed values
 - Database file
 - Save as new database (.mdb)
 - Raw and Statistical text files



Creating query with specified columns in Excel (Animal ID, weight, etc)

- Excel -> Data tab -> From other sources -> Microsoft query -> MS Access database -> OK -> click on File in the C drive.
 - Query Wizard -> Choose columns
 - Chamber info
 - Animal ID
 - Study #, etc
 - Trial data
 - Click OK





• Create connection with chamber number so click on chamber number on one side and bring it over to the next to create a 'link'

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•	best1	ber Apir Number	42502.6054166667	Chamber No 1	Block No Trial No 2 42	Trial Type Prenulse and Startle Stin	Null Period	S1 Stim Type White Noise	25 25	51 Level 71	51 Rise/Fall	51 Frequency	<u>51 Au</u> ▲
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• File -> return data to excel -> import data -> OK