**ChABC Data Overview**

**rChABC Reduction by Region**:

Displays positions and magnitudes of ChABC injection-induced PNN degradation (reduction) from region to region within the brains of WT surrogate mice

* WT surrogate mice were injected with ChABC in the **RIGHT side of the brain** corresponding to primary somatosensory cortex before undergoing 6 days of pup retrieval behavior
* Positions: distance from the front of the brain to the section being analyzed, expressed in millimeters
  + Example: 6.56 – the tissue degraded by ChABC is 6.56 mm from the front of the brain
  + 0 mm is arbitrarily defined but internally consistent from brain to brain within ABBA/the Allen atlas
  + Can be thought of as a z-value of sorts (if x is defined to be the mediolateral axis and y is defined to be the dorsoventral axis)
* Magnitudes: expressed in proportions
  + Example: 0.5405 – 54.05% of one tissue section’s PNNs were degraded by ChABC in one particular brain region (see below)

**8 different somatosensory cortical regions (SSp)**:

* SSp-bfd – Primary somatosensory area, barrel field
* SSp-ll – Primary somatosensory area, lower limb
* SSp-m – Primary somatosensory area, mouth
* SSp-n – Primary somatosensory area, nose
* SSp-tr – Primary somatosensory area, trunk
* SSp-ul – Primary somatosensory area, upper limb
* SSp-un – Primary somatosensory area, undefined
* SSs – Supplementary somatosensory area

**n=13 ChABC brain for analysis**:

* #091121
* #111721
* #033122
* #040122
* #041122
* #041922
* #071022
* #072222
* #081922
* #102522
* #052322
* #071722
* #102222

Statistics on sheet:

* Average: Average reduction per animal
* Non-Zero Reductions: Count of reductions per animal, excluding cases where a zero was recorded
* Total “Reductions”: Total count of reductions per animal, including cases where a zero was recorded
* NZR/TR: Proportion of Total Reductions that had Non-Zero Reduction

What does zero mean?

* Though a given brain region is present for a given brain tissue, no ChABC-induced PNN reduction occurred

**rChABC Behavioral Data**

Displays Latency and Error behavioral data for ChABC and biPen-injected WT surrogate mice over the course of 6 days of behavioral testing

* ChABC: experimental group
* biPen: control group
* Days represented as P0 – P5
  + P0 = postnatal day zero = day of pup birth

Latency Index: Amount of time required for a surrogate mouse to retrieve pups, recorded as a proportion of a retrieval time limit of 5 minutes

* Example: latency of 0.468 on P0 – on the day pups were born, it took the surrogate mouse ~140s to retrieve all pups

Errors: error count of mice during retrieval

* Potential errors include a surrogate touching a pup but not grabbing it or grabbing the pup but not bringing it all the way back to the nest