**Date: 1/12/2024**

**Goal: awake recording practice/e-stim pracitce**

**Mouse: R5**

**Probe: 11DD1**

**Recording time: 3PM-4PM**

Behavior note: mouse stay head fixed ~1hr,screaming a little bit during the experiment ,then refuse to have more water.

Ephys recording

E-stim setting: 200ms in total, 2.5ms -10uA, 2.5ms 10uA, 35ms refractory period

Right FN (x=-50, y=0) with undiluted DiI

File 000 - 5113 um, rec channel A24,25,26

Max depth to 5113.2 um with DiI

note:

Still noisy because of muscle movement (signal metrics: 300~500 uV, up to 5000 uV when moving)

E-stim test

For single channel, 10 uA works good, 5 uA too small

To stim all 32 channels seems not practical, or need further smaller current under 5 uA

The effect seems to have some region-specificity, but not that specific

25 Hz, 200 ms

| depth(um) | current(uA) | channel | Effect on right eye only |
| --- | --- | --- | --- |
| 5100 | 5 | all | \*\*\*(painful) |
|  | 10 | A16(bottom) | \* |
|  | 10 | A29(middle) | \* |
|  | 10 | A23(top) | \* |
|  | 5 | A23 | o |
| 4100 | 10 | A29 | o |
|  | 10 | A16 | o |
| 3000 | 10 | A16 | ? seem to move both eyes |
| 2000 | 10 | A16 | o |