**Date: 3/6/2024**

**Goal: stim/recording IN HEADPOST MOUSE**

**Mouse: R16**

**Condition:anes**

**Probe: 12186 (A2x16)**

**Recording time: 10AM-11AM**

RIGHT craniotomy

Shank1- (0,- 250um,), shank2 - (0,250um) TO 5300 um with undiluted DiO

Ephys 0 - Video 000

Time: 20 s

Depth: 5300 um

Active channel: A27

Stim: shank 1-LOWER HALF, single, 2 uA, 2000 us

Respond channel: /

Behavior: none

Ephys 1 - Video 001

Time: 20 s

Depth: 5300 um

Active channel: A27

Stim: shank 1-LOWER HALF, single, 2 uA, 10000 us

Respond channel: /

Behavior: none

Ephys 2 - Video 002

Time: 30 s

Depth: 5300 um

Active channel:

Stim: shank 1-all, 2uA,10000 us,single

Respond channel:

Behavior: right ear, eye, whisker

Ephys 3 - Video 003

Time: 53 s

Depth: 5300 um

Active channel: shank 1-upper half, 2uA,10000 us,single

Respond channel:

Behavior: right ear, eye, whisker

Ephys 4 - Video 004

Time: 30 s

Depth: 5300 um

Active channel:

Stim: shank 1-A11,6,12,5, 2uA,10000 us,single

Respond channel: a lot…

Behavior:right ear, eye, VERY SLIGHT

Ephys 5 - Video 005

Time: 34 s

Depth: 5310 um

Active channel:

Stim: shank 2-ALL, 2uA,10000 us,single

Respond channel: A20?

Behavior:right ear, eye,whisker

Ephys 6 - Video 006

Time:50 s

Depth: 5300 um

Active channel:

Stim: shank 2-lower half, 2uA, 10000 us,single

Respond channel:

Behavior: right ear, eye,whisker

**Date: 3/6/2024**

**Goal: stim/recording IN HEADPOST MOUSE**

**Mouse: R16**

**Condition:anes**

**Probe: 12186 (A2x16)**

**Recording time: 4-5pM**

LEFT craniotomy

Shank1- (0,- 500um,), shank2 - (0,0 um) TO 5250 um with undiluted DiO

Ephys 7 - Video 007

Time: 30s

Depth: 5250 um

Active channel:

Stim: shank 2-A31,18,32,17, 2uA, 10000 us,single

Respond channel:

Behavior: left WHISKER

Ephys 8 - Video 008

Time: 30s

Depth: 5250 um

Active channel:

Stim: shank 1-LOWER HALF, 2uA, 10000 us,single

Respond channel: a12,2

Behavior: left WHISKER

Ephys 9 - Video 009

Time: 30s

Depth: 5250 um

Active channel:

Stim: shank 1-ALL, 2uA, 10000 us,single

Respond channel:

Behavior: eye ear whisker

Ephys 10 - Video 010

Time: 30s

Depth: 5250 um

Active channel:

Stim: shank 1-upper half, 2uA, 10000 us,single

Respond channel:

Behavior: eye ear whisker

Ephys 11 - Video 011

Time: 50s

Depth: 5250 um

Active channel:

Stim: shank 1-A10,7,11,6, 2uA, 10000 us,single

Respond channel:

Behavior: eye ear whisker

Ephys 12 - Video 012

Time: 50s

Depth: 5250 um

Active channel:

Stim: shank 1-7,11, 2uA, 10000 us,single

Respond channel:

Behavior: eye ear whisker

Ephys 14 - Video 014

Time: 50s

Depth: 5250 um

Active channel:

Stim: shank 2-a27-a19, 2uA, 10000 us,single

Respond channel:

Behavior: whisker

Ephys 15 - Video 015

Time: 50s

Depth: 5250 um

Active channel:

Stim: shank 2-A35,26,24,23, 2uA, 10000 us,single

Respond channel:

Behavior: whisker a little

Note:

all channel stim always trigger all face move- eye ear and whisker. It could bacaues of the addup of all the current can trigger the neuron that is further away. May focus on get single facial part to move in the future. E.g. from today’s recording there’s no single ear move, so it could mean the probe is not that near to the real ear motor neuron yet.

Also, different duration of stimuli also could trigger differently. E.g. 2000 us gets nothing but 10000 us gets movement. I don’t really understand this yet. For I think duration doesn’t add up to give neuron a stronger stimuli.