**Recording Depths**

1. Place mice under iso (2 flow, 3.5 iso) until less mobile
2. Attach Intan headstage amplifier to Microdrive connector
   1. The lettering on the amplifier should face forward on the mouse
3. GCG mice should be handled prior to recording, after recovering from isofluorane
   1. I have been scruffing carefully but firmly behind the neck and inverting for 10 seconds. Be careful to avoid knocking off the Microdrive.
4. Transfer mice to recording cage and attach wire to amplifier
   1. This should not require much force
5. Record brainwaves on Intan and video on Datawave
   1. Intan
      1. Set sampling frequency to 20 kHz (should be default) on Intan startup
      2. Record electrode impedance
      3. Set filename
      4. Press record
   2. Datawave
      1. Toggle record to file ON
      2. Press play. Datawave will ask for a filename. Use the filename for the Intan file.
6. Turn screws on Microdrive COUNTERCLOCKWISE according to chart and remove amplifier
   1. If more comfortable, you can turn screws under iso

The drives are implanted at 2.5 turns (5 half turns) on both hemispheres. Recording duration does not need to be exact

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Day** | **Depth before session (half-turns)** | **Half-turns to add before rec** | **Rec Duration** | **Half-turns to add after rec** | **Depth after session (half-turns)** |
| 1, morning | 5 (default) | --- | 10 min | 5 | 10 |
| 1, noon | 10 | --- | 10 min | 4 | 14 |
| 1, afternoon | 14 | --- | 15 min | 1 | 15 |
| 2, morning | 15 | --- | 15 min | 1 | 16 |
| 2, afternoon | 16 | --- | 15 min | 1 | 17 |
| 3, morning | 17 | --- | 15 min | 1 | 18 |
| 3, afternoon | 18 | --- | Until next session | --- | 18 |
| 4, morning | 18 | 1 (rec @ 19) | Until next session | --- | 19 |
| 4, afternoon | 19 | 1 (rec @ 20) | Until next session | --- | 20 |
| 5, morning | 20 | --- | 15 min | *Electrolyze and perfuse* | |