[Hou Lab Surgery List](https://docs.google.com/spreadsheets/d/1R8nYic2u3KuaZEPu81DZZ5B3ZfGBBYbPVwHexYVAKPg/edit#gid=369077236)

### 20240131 Xinyan’s Ephys Plan V3

**Mar.**

1. R

* R13: Anesthetized recording
* R14: Awake recording
* Run data with the pipeline to test

1. Change Rig1 to headpost

* Add cameras up to 6
* Change to headpost holder after R14 recording
* Reacclimate R10, R11 to test new setup
* Schedule with Diana for more headpost mice by the end of this plan

| week14 | 03/04 - 03/10 |  |
| --- | --- | --- |
| week15 | 03/11 - 03/17 |  |
| week16 | 03/18 - 03/24 |  |
| week17 | 03/25 - 03/31 |  |
| week18 | 04/01 - |  |

### 20240131 Xinyan’s Ephys Plan V3

**Feb.**

1. Recording on two more headplate mice

* R13: Anesthetized recording
* R14: Awake recording
* Run data with the pipeline to test

1. Change Rig1 to headpost

* Add cameras up to 6
* Change to headpost holder after R14 recording
* Reacclimate R10, R11 to test new setup
* Schedule with Diana for more headpost mice by the end of this plan

|  |  | Mo | Tu | We | Th | Fr | Sa | Su |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| week9 | 01/29 - 02/04 |  |  | \*R13 surgery |  |  |  | \*R13 cra-R |
| week10 | 02/05 - 02/11 | \*R13 rec  \*R14 surgery | \*R13 rec | \*R13 rec | \*R13 rec  \*R14 acc | \*R13 rec  \*R14 acc | \*R14 acc | \*R13 cra-L  \*R14 acc |
| week11 | 02/12 - 02/18 | \*R13 rec  \*R14 acc | \*R13 rec  \*R14 acc | \*R13 rec  \*R14 acc | \*R13 rec  \*R14 acc | \*R13  perfu  \*R14 acc | \*R14 acc | \*R14 cra-R |
| week12 | 02/19 - 02/25 | \*R14 rec | \*R14 rec | \*R14 rec | \*R14 rec  \*R15, R16 ACC | \*R14 rec  \*R15, R16 ACC | \*R14 rec  \*R15, R16 ACC | \*R14 perfu  \*R15, R16 ACC |
| week13 | 02/26 - 03/03 | \*R14 STPT  \*change holder  \*camera | \*R15 rec | \*R15 rec | \*R15 rec | \*R15 rec | \*R15 rec | \*R15 rec |

### 20240110 Xinyan’s Ephys Plan V2

**Jan.**

From last month: Done with craniotomy, acclimation practice

Did not finish plan for awake recording

1. Awake recording on R5, …

* ~~Familiar with full process about awake recording~~
* ~~Plan and try electrical stim~~

1. DiI Troubleshooting

* ~~Complete full process of imaging by myself~~
* ~~DiI Troubleshooting~~

1. Rig setup
   * ~~Refine behavior machine~~
   * ~~Synchronization of ephys and camera recording~~
   * Change to headpost
2. Data analysis
   * ~~Script for ephys data~~
   * ~~Learn video data analysis~~

|  |  |  |
| --- | --- | --- |
| week6 | 01/08 - 01/14 | R5 awake recording, Learn about imaging, DiI Troubleshooting |
| week7 | 01/15 - 01/21 | Refine behavior machine |
| week8 | 01/22 - 01/28 | Ephys & video synchronization |
| week9 | 01/29 - 02/04 | Ephys data analysis script |

### 20231205 Xinyan’s Ephys Plan V1

**Dec. -Practice on R4, R5,R6,R7**

1. Acclimation
2. Extend head fixing time up to 2hr (water/food device)
3. Get clear idea how many days it requires for future work plan
4. Craniotomy

* ~~Confident to do it on my own~~
* ~~Confident to clean craniotomy every time before recording~~

1. Ephys Recording

* Record from 5-9 different site
* ~~Histology~~
* Awake recording

1. Data Processing

**Jan. -Headpost mice**

**Feb. -Data collection**

**Mar. -Data collection**

Every Monday: fit week plan into google calendar for each day’s plan

| week1 | 12/04 - 12/10 | R6 craniotomy(1’); R5 longer head fixing(7’); |
| --- | --- | --- |
| week2 | 12/11 - 12/17 | R6 craniotomy(1’); R6 anes recording(6’); R6 longer head fixing(7’); R6 histology; R7 start acclimation(?) |
| week3 | 12/18 - 12/24 | R5 craniotomy(1’); R5 awake recording (4’); R7 longer head fixing; R5 histology(?) |
| week4 | 12/25 - 12/31 | R7 craniotomy(1’),R7 awake recording(5') |
| \* R6(anes recording only + histology) - for craniotomy practice and faster clean, recording workflow  R5, R7 - longer acclimation (R5 3 weeks, R7 -2 weeks) and awake recording  \* ephys recording without camera coordination(or with?), without stimulation(or with?)  \* recording plan:  Each time: 5000 ± ? um; central/ | | |
| week5 | 01/01 - 01/07 |  |
| week6 | 01/08 - 01/14 |  |
| week7 | 01/15 - 01/21 |  |
| week8 | 01/22 - 01/28 |  |
| week9 | 01/29 - 02/04 |  |
| week10 | 02/05 - 02/11 |  |
| week11 | 02/12 - 02/18 |  |
| week12 | 02/19 - 02/25 |  |
| week13 | 02/26 - 03/03 |  |
| week14 | 03/04 - 03/10 |  |
| week15 | 03/11 - 03/17 |  |
| week16 | 03/18 - 03/24 |  |
| week17 | 03/25 - 03/31 |  |
| week18 | 04/01 - |  |