**AGENDA RED = current state**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **TOPIC** | **DESCRIPTION** | **OWNER** |
|  | PS19 Chronic sleep disruption | stain on slide: minitest of TH/cresyl with WT sections 🡪 failed, back to floating sections  Iba1-DAB on cortex (SD vs adlib): minitest. what cortical areas to compare? 🡪 failed, back to floating sections  LC injected mice: section/GFP & TH stain 🡪 injection good, TH bad, back to floating sections, inject 3x more WTs to identify AAV vol  AT100-DAB (SD vs adlib): what has Mickael done? When/where to expect it?  FIJI for DAB RoI quantification  FIJI for IF co-localization cell counting  ThioS-DAB (SD vs adlib): What age does it start? And what positive control?  2 mo PS19+ (adlib): is there AT8 in the brainstem?  perfuse 10 month old for positive control (11mo = 7/27/17)  longitudinal rec: do spindles change with age? (also sleep quality measures) | Ward/Korey |
|  | Optogenetics experiment | Get depth electrodes (2x)  Implant to M1 in new ChR2 (2x)  Baseline rec, insert blue LED  Test 40 Hz in W, NREM, REM  Test 1, 4, 8, 13 Hz in 3 states | Korey |
|  | Motor learning: tone reactivation | Brainstorm designs  order mice  Build design #1 at scale of 5 animals, test parameters (freq/dB)  test arousal from NREM @ defined parameters  use defined parameters on encoding/sleep | Rebecca |
|  | huSpindle-tau paper | spindle property and CSF tau correlations  SWA vs CSF Ab/tau  draft 1  discussion  spindle property literature search: mechanistically, how tau can alter density, duration. Ie. neuronal electrophysiological properties: resting membrane potential, input resistance, intrinsic excitability, and effects on T-type calcium channels and K+ channels that contribute to spindle generation  SWA QA: 0.7 R corr | Korey |
|  | msSpindle-rotarod paper | target short, descriptive study  implant, experiment 4x more females  spindle changes with learning  spindle-SWA coupling with learning | Korey |
|  | rpS6 and rotarod paper | Figure layout, Ward to get Photoshop/Illustrator  first draft | Andrew |
|  | Gist learn: F-B rotarod | recap results with Andrew  cFos anterior cortex  inhibit PFC in NREM/REM/W… | Ward |
|  | Computed Tomography Imaging | determine available animals |  |
|  | IACUC | New IACUC for PS19 mice, sleep disrupt, food restrict for training (VR and mototrak) |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **TOPIC** | **DESCRIPTION** | **OWNER** |
|  | GRANTS | Korey: F32, BrightFocus. Consider an LC manipulation Aims page  Andrew: R01 human (@IRB approval), R01 mouse (@aims page) |  |
|  | Mouse VR Maze | Implant headposts (5x)  build forward rotation (locomotion)  test freely moving enclosure, avoid head fixation  train forward rotation  deliver peanut oil, tone with arduino @ end gate  test corridor  test VR-“open field”  Software:  UE4 to blink LED? | Korey |