**AGENDA RED = current state**

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| **#** | **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  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 sleep  Test 1, 4, 8, 13 Hz in states | Korey |
|  | Motor learning: tone reactivation | Brainstorm designs  Build design #1 at scale of 5 animals | 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  first draft | Andrew |
|  | Gist learn: F-B rotarod | recap results  cFos anterior cortex  inhibit anterior cortex in NREM/REM/W… | Ward |
|  | Computed Tomography Imaging | determine available animals |  |
|  | Mouse VR Maze | Implant headposts (5x)  build forward rotation (locomotion)  train forward rotation  deliver peanut oil, tone with arduino @ end gate  test corridor  test VR-“open field”  Software:  UE4 to blink LED? | Korey |
|  | IACUC | New IACUC for PS19 mice, sleep disrupt, food restrict for training (VR and mototrak) |  |

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|  | GRANTS | Korey: F32  Andrew: R01 human (IRB approval), R01 mouse (submit) |  |