

Dataset of “State-dependent pontine ensemble dynamics and interactions with cortex across sleep states”

last update 11 October 2019

Data files

- DataSummary.xlsx
 - List of animals and data files
- DATA*.mat
 - Each file contains information about spike trains, sleep score, pupil, p-waves, calcium signals

Data format

- All files are encoded as the MATLAB .mat format.

Data contents

DATA*.mat

DATA (structure)

- .clu (int32, cluster ID)
- .res (double, spike timing in ms)
- .qual (double, quality information)
 - cluster ID
 - manual curation outcomes
 - Isolation distance
 - Gaussian Contamination
 - ISI violations
- .score (double, sleep score in every 4-s window)
 - 1, NREM sleep; 2, REM sleep; 3, wakefulness
- .pupil (struct, pupil information)
 - .alignedSleepScores (double, sleep scores aligned with pupil data stream)
 - .sleepScoreTime (double, time series for sleep scores in s)
 - .diameter (double, pupil diameter)
 - .pupilTime (double, time series for pupil measure in s)
 - .midpoint (double, pupil center)
- .pwavTime (double, timing of P-waves in ms)
- .normF (double, normalized fluorescent signals)
- .time (double, time series for fluorescent signals in s)
- .states (double, vigilance states)
 - 1, NREM sleep; 2, REM sleep; 3, wakefulness

All other data are available from the correspondence author upon reasonable request.