

Resource Summary Report

Generated by PRECISE-TBI on Sep 17, 2026

Cognitive Electrophysiology Data Portal

RRID:SCR_003129

Type: Tool

Proper Citation

Cognitive Electrophysiology Data Portal (RRID:SCR_003129)

Resource Information

URL: http://memory.psych.upenn.edu/Electrophysiological_Data

Proper Citation: Cognitive Electrophysiology Data Portal (RRID:SCR_003129)

Description: Multiple data sets, and associated publications, of electrophysiological data from the Computational Memory Lab, University of Pennsylvania. Separate requests must be made for each dataset. A collection of behavioral testing data is also available.

Abbreviations: Cognitive Electrophysiology Data Portal

Resource Type: data or information resource, data set

Keywords: cognitive, electrophysiology, behavior, cognitive electrophysiology data

Availability: Free, Available for download, Freely available

Resource Name: Cognitive Electrophysiology Data Portal

Resource ID: SCR_003129

Alternate IDs: nlx_156800

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260912T200313+0000

Ratings and Alerts

No rating or validation information has been found for Cognitive Electrophysiology Data Portal.

No alerts have been found for Cognitive Electrophysiology Data Portal.

Data and Source Information

Usage and Citation Metrics

We found 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Schonhaut DR, et al. (2024) MTL neurons phase-lock to human hippocampal theta. eLife, 13.

Ezzyat Y, et al. (2024) Functional and anatomical connectivity predict brain stimulation's mnemonic effects. Cerebral cortex (New York, N.Y. : 1991), 34(1).

Ezzyat Y, et al. (2023) Functional and anatomical connectivity predict brain stimulation's mnemonic effects. bioRxiv : the preprint server for biology.

Topçu Ç, et al. (2022) Hotspot of human verbal memory encoding in the left anterior prefrontal cortex. EBioMedicine, 82, 104135.

Solomon EA, et al. (2021) Theta-burst stimulation entrains frequency-specific oscillatory responses. Brain stimulation, 14(5), 1271.

Kwon H, et al. (2021) Early cortical signals in visual stimulus detection. NeuroImage, 244, 118608.

Marks VS, et al. (2021) Independent dynamics of low, intermediate, and high frequency spectral intracranial EEG activities during human memory formation. NeuroImage, 245, 118637.

Adamovich-Zeitlin R, et al. (2021) Biomarkers of memory variability in traumatic brain injury. Brain communications, 3(1), fcaa202.

Kragel JE, et al. (2021) Distinct cortical systems reinstate the content and context of episodic memories. Nature communications, 12(1), 4444.

Lohnas LJ, et al. (2020) Neural fatigue influences memory encoding in the human hippocampus. Neuropsychologia, 143, 107471.

Clarke A, et al. (2020) Dynamic activity patterns in the anterior temporal lobe represents object semantics. Cognitive neuroscience, 11(3), 111.

Solomon EA, et al. (2019) Dynamic Theta Networks in the Human Medial Temporal Lobe Support Episodic Memory. Current biology : CB, 29(7), 1100.

Phan TD, et al. (2019) Multivariate stochastic volatility modeling of neural data. eLife, 8.

Meisler SL, et al. (2019) Does data cleaning improve brain state classification? Journal of neuroscience methods, 328, 108421.

Ezzyat Y, et al. (2018) Closed-loop stimulation of temporal cortex rescues functional networks and improves memory. *Nature communications*, 9(1), 365.

Solomon EA, et al. (2018) Medial temporal lobe functional connectivity predicts stimulation-induced theta power. *Nature communications*, 9(1), 4437.

Solomon EA, et al. (2017) Widespread theta synchrony and high-frequency desynchronization underlies enhanced cognition. *Nature communications*, 8(1), 1704.

Ezzyat Y, et al. (2017) Direct Brain Stimulation Modulates Encoding States and Memory Performance in Humans. *Current biology : CB*, 27(9), 1251.

Kragel JE, et al. (2017) Similar patterns of neural activity predict memory function during encoding and retrieval. *NeuroImage*, 155, 60.

Long NM, et al. (2017) Contextually Mediated Spontaneous Retrieval Is Specific to the Hippocampus. *Current biology : CB*, 27(7), 1074.