

Resource Summary Report

Generated by ASWG on Aug 4, 2026

ERPLAB

RRID:SCR_009574

Type: Tool

Proper Citation

ERPLAB (RRID:SCR_009574)

Resource Information

URL: <http://erpinfo.org/erplab>

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Description: A set of open source, freely available Matlab routines for analyzing Event Related Potential (ERP) data. It is tightly integrated with the EEGLAB Toolbox. ERPLAB routines can be accessed from the Matlab command window and from Matlab scripts in addition to being accessed from the EEGLAB GUI. Consequently, ERPLAB provides the ease of learning of a GUI-based system but also provides the power and flexibility of a scripted system. The development of ERPLAB Toolbox is being coordinated by Steve Luck and Javier Lopez-Calderon at the UC-Davis Center for Mind & Brain, with financial support from NIMH.

Abbreviations: ERPLAB

Synonyms: ERPLAB Toolbox

Resource Type: software resource, data processing software, software application, data analysis software

Keywords: anova, eeg, meg, electrocorticography, event related potential, time domain analysis

Funding: NIMH

Availability: GNU General Public License

Resource Name: ERPLAB

Resource ID: SCR_009574

Alternate IDs: nlx_155754

Alternate URLs: <http://www.nitrc.org/projects/erplab>

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260804T043413+0000

Ratings and Alerts

No rating or validation information has been found for ERPLAB.

No alerts have been found for ERPLAB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 428 mentions in open access literature.

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

van der Wulp I, et al. (2026) Words and Meters: Neural Evidence for a Connection Between Individual Differences in Statistical Learning and Rhythmic Ability in Infancy. *Developmental science*, 29(2), e70116.

Balart-S??nchez SA, et al. (2025) The influence of cognitive reserve on ERP measures of selective visual attentional processing in older adults after mild traumatic brain injury. *PloS one*, 20(1), e0316673.

Huang J, et al. (2025) Lateralized differences in power spectra across different frequency bands during NREM sleep in patients with primary insomnia. *Frontiers in neuroscience*, 19, 1532011.

Judah MR, et al. (2025) Anxiety Sensitivity and Intolerance of Uncertainty Uniquely Explain the Association of the Late Positive Potential With Generalized Anxiety Disorder Symptoms. *Psychophysiology*, 62(4), e70044.

Chen Z, et al. (2025) Protocol for a Randomized Controlled Trial to Enhance Executive Function via Brief Mindfulness Training in Individuals with Internet Gaming Disorder. *PloS one*, 20(4), e0320305.

Chang Q, et al. (2025) Ensemble coding of crowd facial emotion in Internet gaming disorder under the emotional interference condition: An ERP study. *Journal of behavioral addictions*, 14(2), 817.

Knippenberg AR, et al. (2025) Negative auditory hallucinations are associated with increased activation of the defensive motivational system in schizophrenia. *Schizophrenia research. Cognition*, 39, 100334.

Krile L, et al. (2025) Brain signal complexity tracks mind-wandering and visual perceptual learning. *Scientific reports*, 15(1), 39839.

Norris JE, et al. (2025) Auditory steady-state response deficits in Fragile X Syndrome implicate deficits in stimulus representation maintenance and GABAergic modulation. medRxiv : the preprint server for health sciences.

Suzuki S, et al. (2025) Characteristics of spontaneous anterior-posterior oscillation-frequency convergences in the alpha band. eNeuro, 12(3).

Lees T, et al. (2025) Differences in Consummatory but Not Anticipatory Reward Processing Predict Depressive Symptoms in Young Adult Women. Psychophysiology, 62(3), e70026.

Yasuhara M, et al. (2025) Error-related potentials during multitasking involving sensorimotor control: an ERP and offline decoding study for brain-computer interface. Frontiers in human neuroscience, 19, 1516721.

Hu J, et al. (2025) Foreign cultural norms are better accepted in the second language. Annals of the New York Academy of Sciences, 1551(1), 257.

Melcher D, et al. (2025) An early effect of the parafoveal preview on post-saccadic processing of English words. Attention, perception & psychophysics, 87(1), 94.

Liu L, et al. (2025) Impaired non-verbal auditory memory maintenance in schizophrenia: An ERP study. Schizophrenia research. Cognition, 41, 100362.

Menceloglu M, et al. (2025) Cost of maintaining attentional templates for multiple colors revealed by EEG decoding. Imaging neuroscience (Cambridge, Mass.), 3.

Faerman MV, et al. (2025) Neural correlates of trait anxiety in sensory processing and distractor filtering. Psychophysiology, 62(1), e14706.

Ren Z, et al. (2025) The impact of sleep deprivation on cognitive function in healthy adults: insights from auditory P300 and reaction time analysis. Frontiers in neuroscience, 19, 1559969.

Beier EJ, et al. (2025) Discourse Focus and Memory Encoding: The Role of Trial-Level Alpha Power. bioRxiv : the preprint server for biology.

Joshi J, et al. (2025) Complex span measures of working memory do not mediate the effects of age on the P3 and N400 ERPs. Aging brain, 7, 100140.