Resource Summary Report

Generated by NIF on May 23, 2025

ERPLAB

RRID:SCR_009574
Type: Tool

Proper Citation

ERPLAB (RRID:SCR_009574)

Resource Information

URL: http://erpinfo.org/erplab

Proper Citation: ERPLAB (RRID:SCR_009574)

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 application, data processing software, software resource, 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: 20250523T054738+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 383 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

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.

Balart-Sánchez 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.

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

Guan C, et al. (2025) Greater neural delay discounting on reward evaluation in anhedonia. International journal of clinical and health psychology : IJCHP, 25(1), 100542.

Male AG, et al. (2024) Orientation and contrast deviance examined: Contrast effects mimic deviant-related negativity yet neither produce the canonical neural correlate of prediction error. PloS one, 19(3), e0299948.

McDonnell AS, et al. (2024) Immersion in nature enhances neural indices of executive attention. Scientific reports, 14(1), 1845.

Diao M, et al. (2024) Quantifying the effects of practicing a semantic task according to subclinical schizotypy. Scientific reports, 14(1), 2900.

Mohamadpour H, et al. (2024) How is social dominance related to our short-term memory? An EEG/ERP investigation of encoding and retrieval during a working memory task. Heliyon, 10(17), e37389.

Rogers B, et al. (2024) Evaluating frontoparietal network topography for diagnostic markers of Alzheimer's disease. Scientific reports, 14(1), 14135.

Mon SK, et al. (2024) Leveraging mixed-effects location scale models to assess the ERP mismatch negativity's psychometric properties and trial-by-trial neural variability in toddler-mother dyads. Developmental cognitive neuroscience, 70, 101459.

Mohamed M, et al. (2024) P300 Latency with Memory Performance: A Promising Biomarker for Preclinical Stages of Alzheimer's Disease. Biosensors, 14(12).

Xia R, et al. (2024) Parental emotionality is related to preschool children's neural responses to emotional faces. Social cognitive and affective neuroscience, 19(1).

Arnett AB, et al. (2024) Resting EEG correlates of neurodevelopment in a socioeconomically and linguistically diverse sample of toddlers: Wave 1 of the Kia T?mata Pai best start New Zealand study. Developmental cognitive neuroscience, 65, 101336.

Knight EJ, et al. (2024) It's all in the timing: Delayed feedback in autism may weaken predictive mechanisms during contour integration. bioRxiv : the preprint server for biology.

Jaswal SM, et al. (2024) Is misokinesia sensitivity explained by visual attentional orienting? ERP evidence from an emotional oddball task suggests no. PloS one, 19(7), e0306464.

Flores-Torres J, et al. (2024) Enhancing cognitive control of our decisions: Making the most of humor during the IGT in females and males. Cognitive, affective & behavioral neuroscience, 24(6), 1031.

Wolpert M, et al. (2024) The child the apple eats: processing of argument structure in Mandarin verb-final sentences. Scientific reports, 14(1), 20459.

Niazi IK, et al. (2024) A randomized controlled trial comparing different sites of high-velocity low amplitude thrust on sensorimotor integration parameters. Scientific reports, 14(1), 1159.

Zhou H, et al. (2024) Identification of Methamphetamine Abusers Can Be Supported by EEG-Based Wavelet Transform and BiLSTM Networks. Brain topography, 37(6), 1217.

Li Z, et al. (2024) The Role of Disgust Certainty in Intuitive Thought Processing: Electrophysiological Evidence. Psychology research and behavior management, 17, 3709.