

Resource Summary Report

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

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: 20260905T132634+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 463 mentions in open access literature.

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

Tang X, et al. (2026) Echoes of the mind's eye: Reciprocal crossmodal interaction between auditory and visual processing. *iScience*, 29(3), 114990.

Shankar S, et al. (2026) Advancing Dry Electroencephalography With Scalable, Soft, and Transcranial Magnetic Stimulation-Compatible Ti3C2Tx MXene Electrodes for Research and Clinical-Grade Applications. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(21), e11486.

Alzaher M, et al. (2026) Event-Related Potentials as Markers of Age-Related Changes of Spatial Hearing in Normal-Hearing Adults. *Trends in hearing*, 30, 23312165251410295.

Zhao Y, et al. (2026) Effects of visually induced motor imagery-based brain-computer interface training on motor function in patients with incomplete spinal cord injury: a small-sample exploratory trial. *Frontiers in neurology*, 17, 1700249.

Yang F, et al. (2026) Neuroergonomic evaluation of risk-warning eHMI penetration rates in vehicle platoons: effects on pedestrians' mental workload, situation awareness, and gap acceptance. *Scientific reports*, 16(1).

Zhang G, et al. (2026) Evaluating the effects of regularization and cross-validation parameters on the performance of SVM-based decoding of EEG data. *bioRxiv : the preprint server for biology*.

Chen W, et al. (2026) Attenuated N400 indicates enhanced we - prioritization by depressive mood during integration of ingroup risk cues. *BMC psychology*, 14(1).

Navarrete-Arroyo S, et al. (2026) The Effects of Maturation and Dyslexia Risk on Neural Speech-Sound Encoding and Discrimination at Preschool Stage. *The European journal of neuroscience*, 63(5), e70450.

Di Dona G, et al. (2026) A new effective treatment for dyslexia based on dorsal visual stream neuromodulation. *Journal of neurodevelopmental disorders*, 18(1).

Huang B, et al. (2026) Approach or Avoidance? The Impact of Pain Expectation on Pain Empathy: An ERP Study. *Behavioral sciences (Basel, Switzerland)*, 16(2).

Wang Z, et al. (2026) ERP Decoding Analysis of Visual Working Memory Processes in Schizophrenia. *Alpha psychiatry*, 27(1), 42597.

Zhao Y, et al. (2026) Microbaric oxygen therapy modulates EEG microstates and spectral power in patients with chronic insomnia disorder. *BMC psychiatry*, 26(1).

Cai M, et al. (2026) Intention-Action Conflict EEG-Hand Kinematics Dataset for Unimanual Control under Congruent and Incongruent Conditions. *Scientific data*, 13(1).

Lutz MC, et al. (2026) Trial-By-Trial Changes in Neural Indices of Performance Monitoring Uniquely Correspond to Behavioral Adjustments During a Flanker Task. *Human brain mapping*, 47(7), e70538.

Zheng Y, et al. (2026) Time and amount attributes exert distinct neural influences on gain and loss evaluation. *Social cognitive and affective neuroscience*, 21(1).

Bick J, et al. (2026) Atypical neural responses to dynamically changing facial expressions correlate with behavioral risk in toddlers born preterm: Evidence from an ERP study. *Neuroimage. Reports*, 6(2), 100333.

Spenceley RJ, et al. (2026) When robots reshape teams: neurodynamic insights into taskwork and teamwork in search and rescue. *Frontiers in neuroergonomics*, 7, 1771753.

Nguyen Van C, et al. (2026) Attentional modulation of sensory gating during a visuomotor task. *The journal of physiological sciences : JPS*, 76(2), 100080.

Shenoy AA, et al. (2026) Development and Validation of a Culturally Adapted, Event-related Potential Paradigm for Assessing Alcohol Cue Reactivity and Error Processing in Alcohol Dependence. *Indian journal of psychological medicine*, 48(2), 162.

Yi L, et al. (2026) Time Overestimation Devalues Future Rewards: Electroencephalogram Evidence from Intertemporal Choice. *Brain sciences*, 16(3).