Resource Summary Report

Generated by RRID on Aug 6, 2026

sLORETA

RRID:SCR_013829
Type: Tool

Proper Citation

sLORETA (RRID:SCR_013829)

Resource Information

URL: http://www.uzh.ch/keyinst/loreta#_NOTES:

Proper Citation: sLORETA (RRID:SCR_013829)

Description: A software application which computes images of electric neuronal activity from EEG and MEG. Standard Low Resolution Brain Electromagnetic Tomography, or sLORETA, localizes “test point sources” exactly (under ideal conditions) when estimating electric neuronal generators. This property can be generalized to any source distribution, based on the principles of linearity and superposition. However, it would be noted that sLORETA has very low spatial resolution.

Abbreviations: sLORETA

Synonyms: Standardized low-resolution brain electromagnetic tomography, Standard Low Resolution Brain Electromagnetic Tomography

Resource Type: software resource

Defining Citation: PMID:12575463

Keywords: software application, EEG, MEG, electric neuronal activity, image, LORETA, brain electromagnetic tomography

Availability: Free, Not ready for public distribution, Must have administrator rights

Resource Name: sLORETA

Resource ID: SCR_013829

Alternate URLs: http://www.uzh.ch/keyinst/NewLORETA/sLORETA/sLORETA.htm

Old URLs: http://www.uzh.ch/keyinst/loretaOldy.htm

License: You may install and use this software under the following binding agreement. You will agree to: not use the software for commercial or clinical purposes, not copy ANY of the files included in this package for any form of direct or indirect commercial use, not copy, modify, or decrypt ANY of the files included in this package for any form of direct or indirect commercial use, not erase the "sLORETA" text that appears in any of the files and in any of the images produced by this software, not make changes to this software, not change the name of this method, LORETA, sLORETA, eLORETA to any other name, not misuse this software, as explained below under sLORETA MISUSE.

Record Creation Time: 20220129T080318+0000

Record Last Update: 20260801T190455+0000

Ratings and Alerts

No rating or validation information has been found for sLORETA.

No alerts have been found for sLORETA.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 804 mentions in open access literature.

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

du Bois N, et al. (2026) Advancing EEG-based assessment of consciousness and cognition in prolonged disorders of consciousness. Communications medicine, 6(1).

Yang Y, et al. (2026) Odor-induced sweetness enhancement: EEG evidence for olfactory and gustatory cross-modal interactions. Current research in food science, 13, 101469.

Li Y, et al. (2026) Neurophysiological connectomic signatures of consciousness during propofol-induced general anesthesia. Cell reports. Medicine, 7(2), 102581.

Yan S, et al. (2026) Prognosis prediction of patients with disorders of consciousness based on digital twin brain models. Journal of neuroengineering and rehabilitation, 23(1).

Hao W, et al. (2026) High-gamma tACS may regulate brain network connectivity to alleviate symptoms in female adolescent non-suicidal self-injury: a preliminary TMS-EEG pilot study. BMC psychiatry, 26(1).

Rinaldi S, et al. (2026) Reversal of Endogenous Bioelectrical Network Collapse in Advanced Childhood Cerebral X-Linked Adrenoleukodystrophy. Neurology international, 18(4).

Sahu T, et al. (2026) Electrophysiological and Psychological Correlates of Cognition in Adult Homozygous Sickle Cell Disease Patients. Annals of neurosciences, 09727531251403321.

Yasumoto M, et al. (2026) Functional brain network organization during the 40-Hz auditory steady-state response in children with and without autism spectrum disorder. Frontiers in psychiatry, 17, 1804124.

Dubey M, et al. (2026) EEG Cortical Sources of Theta, Beta and Gamma Frequencies Orchestrate Audio-Visual Interactions. Annals of neurosciences, 33(2), 168.

Zhou X, et al. (2026) Auricular transcutaneous vagus nerve stimulation stabilizes event segmentation through modulation of working memory representations. The international journal of neuropsychopharmacology, 29(2).

Branigan KS, et al. (2026) Electromagnetic field stimulation modulates working memory and cortical alpha oscillations in healthy adults. Scientific reports, 16(1).

Shi X, et al. (2026) Neural Mechanisms of Shooting Preparation Under High-Risk and High-Precision Tasks: A Multiscale EEG Study. Brain and behavior, 16(3), e71261.

Lee J, et al. (2026) Changes in hypsarrhythmia in West syndrome following combined high-dose prednisolone and vigabatrin therapy: A standardized, low-resolution, brain electromagnetic tomography study. Medicine, 105(10), e48017.

Rempel S, et al. (2026) App-based mindfulness meditation training enhances cognitive flexibility and modulates ACC and medial frontal gyrus activation during task switching in adolescent OCD. Neuroimage. Reports, 6(2), 100347.

Pultsina K, et al. (2026) Oscillatory Markers of Interoceptive Attention: Beta Suppression as a Neural Signature of Heartbeat Processing. Psychophysiology, 63(5), e70301.

Huang S, et al. (2026) A network-based EEG source imaging framework for noninvasive localization of epileptogenic zones in MRI-negative focal drug-resistant epilepsy. BMC neurology, 26(1), 86.

Pires Coelho M, et al. (2026) Face expectancy cues differentially modulate conflict processing driven by emotional incongruence: an EEG study. Scientific reports, 16(1), 4457.

Valles TE, et al. (2026) Differential neural responses to rhythmic and patterned TMS protocols: Insights from EEG spectral analysis. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 51(5), 813.

Kim BR, et al. (2026) Robot-Based Cognitive Intervention Effects on Brain Function and Cognition in Patients With Mild Alzheimer's Disease Dementia. Psychiatry investigation, 23(1), 130.

Magosso E, et al. (2026) Cortical alpha changes during visuospatial attention: a deep learning-enriched EEG analysis. Cerebral cortex (New York, N.Y. : 1991), 36(3).