

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 16, 2026

BrainWAVE

RRID:SCR_024396

Type: Tool

Proper Citation

BrainWAVE (RRID:SCR_024396)

Resource Information

URL: <https://github.com/singerlabgt/BrainWAVE>

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Description: Code to program and run flicker stimulation on BrainWAVE stimulator device. This brain oscillation stimulating software can be adapted across subjects and integrated into variety of experimental designs like electrophysiology, neuroimaging, EEG, MRI. Flexible method for noninvasive stimulation of brain rhythms across species. Used to measure effects of rhythmic brain activity on behavior.

Synonyms: , Brain Wide-spectrum Audio/Visual Exposure, BrainWAVE: Noninvasive Rhythm Stimulation

Resource Type: instrument resource, software resource, source code

Defining Citation: [PMID:36754625](#)

Keywords: OpenBehavior, Open source, noninvasive sensory flicker, deep brain stimulation, BrainWAVE stimulator device, measure effects of rhythmic brain activity, behavior

Availability: Free, Available for download, Freely available

Resource Name: BrainWAVE

Resource ID: SCR_024396

Alternate URLs: <https://edspace.american.edu/openbehavior/project/brainwave/>

License: GNU GPL v3.0

Record Creation Time: 20230901T050217+0000

Record Last Update: 20260912T200428+0000

Ratings and Alerts

No rating or validation information has been found for BrainWAVE.

No alerts have been found for BrainWAVE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Dominicus L, et al. (2025) Advancing treatment response prediction in first-episode psychosis: integrating clinical and electroencephalography features. *Psychiatry and clinical neurosciences*, 79(4), 187.

Komulainen E, et al. (2021) Parp1 hyperactivity couples DNA breaks to aberrant neuronal calcium signalling and lethal seizures. *EMBO reports*, 22(5), e51851.

Schutte MJL, et al. (2021) Functional connectome differences in individuals with hallucinations across the psychosis continuum. *Scientific reports*, 11(1), 1108.

Das S, et al. (2020) Complex network analysis of MCI-AD EEG signals under cognitive and resting state. *Brain research*, 1735, 146743.

L??pez ME, et al. (2017) MEG Beamformer-Based Reconstructions of Functional Networks in Mild Cognitive Impairment. *Frontiers in aging neuroscience*, 9, 107.

van der Molen MJ, et al. (2014) Resting-state EEG oscillatory dynamics in fragile X syndrome: abnormal functional connectivity and brain network organization. *PloS one*, 9(2), e88451.