

Resource Summary Report

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Neurophysiological Biomarker Toolbox

RRID:SCR_009612

Type: Tool

Proper Citation

Neurophysiological Biomarker Toolbox (RRID:SCR_009612)

Resource Information

URL: <http://www.nbtwiki.net/>

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Description: An open source Matlab toolbox for the computation and integration of neurophysiological biomarkers. NBT offers a pipeline from data storage to statistics including artifact rejection, signal visualization, biomarker computation, and statistical testing. NBT allows for easy implementation of new biomarkers, and incorporates an online wiki that facilitates collaboration among NBT users including extensive help and tutorials. NBT is specialized in analyzing EEG data, however it allows the processing of any kind of signal. NBT can, e.g., be used to analyze ongoing oscillation between: * Eyes-closed rest of subject populations (e.g., healthy subjects and patients, males vs. females, young vs. old, etc.). * Two experimental condition (e.g., classical eyes-closed rest vs. meditation, or before vs. after consumption of a CNS-active substance (a drug, coffee, nicotine, alcohol, etc.)., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Abbreviations: NBT

Synonyms: The Neurophysiological Biomarker Toolbox

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

Keywords: brain vision analyzer data exchange format, database application, edf/bdf/gdf, eeg format, eeg, meg, electrocorticography, egi, fourier time-domain analysis, matlab, os independent, statistical operation, temporal transformation, temporal wavelet analysis, visualization, web service, workflow

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Neurophysiological Biomarker Toolbox

Resource ID: SCR_009612

Alternate IDs: nlx_155831

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

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260905T133046+0000

Ratings and Alerts

No rating or validation information has been found for Neurophysiological Biomarker Toolbox.

No alerts have been found for Neurophysiological Biomarker Toolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 37 mentions in open access literature.

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

Domingos C, et al. (2025) Functional Connectivity in Chronic Schizophrenia: An EEG Resting-State Study with Corrected Imaginary Phase-Locking. *Brain and behavior*, 15(3), e70370.

Ghassemkhani K, et al. (2025) Evaluating EEG complexity and spectral signatures in Alzheimer's disease and frontotemporal dementia: evidence for rostrocaudal asymmetry. *npj aging*, 11(1), 50.

Qi YY, et al. (2025) Abnormally enhanced temporal correlations of alpha oscillations across multiple timescales in tinnitus patients. *Cerebral cortex (New York, N.Y. : 1991)*, 35(9).

Arazi A, et al. (2025) Large-scale maps of altered cortical dynamics in early-stage psychosis are related to GABAergic and glutamatergic neurotransmission. *Science advances*, 11(33), eads0400.

Deiber MP, et al. (2024) Resting-State EEG Microstates and Power Spectrum in Borderline Personality Disorder: A High-Density EEG Study. *Brain topography*, 37(3), 397.

Müller AR, et al. (2024) Cannabidiol (Epidyolex®) for severe behavioral manifestations in patients with tuberous sclerosis complex, mucopolysaccharidosis type III and fragile X syndrome: protocol for a series of randomized, placebo-controlled N-of-1 trials. *BMC psychiatry*, 24(1), 23.

Sysoeva O, et al. (2023) Abnormal spectral and scale-free properties of resting-state EEG in girls with Rett syndrome. *Scientific reports*, 13(1), 12932.

Geertjens L, et al. (2022) Single-case experimental designs for bumetanide across neurodevelopmental disorders: BUDDI protocol. *BMC psychiatry*, 22(1), 452.

Sugimura K, et al. (2021) Association between long-range temporal correlations in intrinsic EEG activity and subjective sense of identity. *Scientific reports*, 11(1), 422.

Buchanan DM, et al. (2021) Elevated and Slowed EEG Oscillations in Patients with Post-Concussive Syndrome and Chronic Pain Following a Motor Vehicle Collision. *Brain sciences*, 11(5).

Eqlimi E, et al. (2020) EEG Correlates of Learning From Speech Presented in Environmental Noise. *Frontiers in psychology*, 11, 1850.

Deiber MP, et al. (2020) Linking alpha oscillations, attention and inhibitory control in adult ADHD with EEG neurofeedback. *NeuroImage. Clinical*, 25, 102145.

Bruining H, et al. (2020) Measurement of excitation-inhibition ratio in autism spectrum disorder using critical brain dynamics. *Scientific reports*, 10(1), 9195.

Li X, et al. (2020) A Deep Learning Approach for Mild Depression Recognition Based on Functional Connectivity Using Electroencephalography. *Frontiers in neuroscience*, 14, 192.

Nissen TD, et al. (2020) Effects of Vortioxetine and Escitalopram on Electroencephalographic Recordings - A Randomized, Crossover Trial in Healthy Males. *Neuroscience*, 424, 172.

Ros T, et al. (2020) PET Imaging of Dopamine Neurotransmission During EEG Neurofeedback. *Frontiers in physiology*, 11, 590503.

Nakao T, et al. (2019) From neuronal to psychological noise - Long-range temporal correlations in EEG intrinsic activity reduce noise in internally-guided decision making. *NeuroImage*, 201, 116015.

Teixeira Borges AF, et al. (2019) Scaling behaviour in music and cortical dynamics interplay to mediate music listening pleasure. *Scientific reports*, 9(1), 17700.

Irrmischer M, et al. (2018) Strong long-range temporal correlations of beta/gamma oscillations are associated with poor sustained visual attention performance. *The European journal of neuroscience*, 48(8), 2674.

Irrmischer M, et al. (2018) Controlling the Temporal Structure of Brain Oscillations by Focused Attention Meditation. *Human brain mapping*, 39(4), 1825.