Resource Summary Report

Generated by ASWG on Aug 4, 2026

NeuroExplorer

RRID:SCR_001818
Type: Tool

Proper Citation

NeuroExplorer (RRID:SCR_001818)

Resource Information

URL: http://www.neuroexplorer.com/

Proper Citation: NeuroExplorer (RRID:SCR_001818)

Description: Data analysis software for neurophysiology with a multitude of features, including: * Import of native data files created by many popular data acquisition systems * All standard histogram and raster analyses * Shift predictors in crosscorrelograms and color markers in perievent rasters * Joint PSTH, burst analysis and many more analyses of timestamped data * Spectral analysis of spike and continuous data * 3D data view and animation * Fully customizable WYSIWYG graphics * Custom analysis and batch mode processing with internal scripting language * Direct data link to Matlab and Excel * Statistical tests via direct link to R-project

Abbreviations: NeuroExplorer

Synonyms: NeuroExplorer: Neurophysiological Data Analysis Package

Resource Type: software application, data processing software, data analysis software, software resource, commercial organization

Keywords: neurophysiology, spike train, spike, statistical test, analysis, windows, mac, 3d data, animation, burst analysis, channel, cross correlogram, electrophysiology, matlab, raster analysis, scripting

Availability: Free, Available for download, Freely available

Resource Name: NeuroExplorer

Resource ID: SCR_001818

Alternate IDs: nlx_158483, nif-0000-10382

Alternate URLs: http://www.plexon.com/products/neuroexplorer

License: Commercial license

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260804T043135+0000

Ratings and Alerts

No rating or validation information has been found for NeuroExplorer.

No alerts have been found for NeuroExplorer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1293 mentions in open access literature.

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

Kodali M, et al. (2025) Residual microglia following short-term PLX5622 treatment in 5xFAD mice exhibit diminished NLRP3 inflammasome and mTOR signaling, and enhanced autophagy. Aging cell, 24(2), e14398.

Yang D, et al. (2025) Linking altered neuronal and synaptic properties to nicotinic receptor Alpha5 subunit gene dysfunction: a translational investigation in rat mPFC and human cortical layer 6. Translational psychiatry, 15(1), 12.

Yu H, et al. (2025) Temporal Association Cortex Gates Sound-Evoked Arousal from NREM Sleep. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(12), e2414271.

Min F, et al. (2025) Impact of LITAF on Mitophagy and Neuronal Damage in Epilepsy via MCL-1 Ubiquitination. CNS neuroscience & therapeutics, 31(1), e70191.

Ni H, et al. (2025) Impairment of theta oscillations in the hippocampal CA1 region may mediate age-dependent movement alternations in the 5xFAD mouse model of Alzheimer's disease. Scientific reports, 15(1), 10975.

Tuna T, et al. (2025) Associative coding of conditioned fear in the thalamic nucleus reuniens in rodents and humans. bioRxiv : the preprint server for biology.

Zhou S, et al. (2025) A midbrain circuit mechanism for noise-induced negative valence coding. Nature communications, 16(1), 4610.

Barzó P, et al. (2025) Electrophysiology and morphology of human cortical supragranular pyramidal cells in a wide age range. eLife, 13.

Minetti A, et al. (2025) Parkinsonism disrupts cortical function by dysregulating oscillatory, network and synaptic activity of parvalbumin positive interneurons. NPJ Parkinson's disease, 11(1), 194.

Köhler I, et al. (2025) Chemogenetic activation of Gq signaling modulates dendritic development of cortical neurons in a time- and layer-specific manner. Frontiers in cellular neuroscience, 19, 1524470.

Acosta Ingram D, et al. (2025) GRAMD1B is a regulator of lipid homeostasis, autophagic flux and phosphorylated tau. Nature communications, 16(1), 3312.

Zhang M, et al. (2025) A neural circuit for sex-dependent conditioned pain hypersensitivity in mice. Nature communications, 16(1), 3639.

Procyk CA, et al. (2025) Human cone photoreceptor transplantation stimulates remodeling and restores function in AIPL1 model of end-stage Leber congenital amaurosis. Stem cell reports, 20(4), 102470.

Ma C, et al. (2025) The Effect of Acupuncture on the Morphology and Neural Coding Damage of the Central Amygdala in Mice with Chronic Inflammatory Pain and Depression. Journal of inflammation research, 18, 3255.

Tan B, et al. (2025) A glutamatergic innervation from medial area of secondary visual cortex to lateral posterior thalamic nucleus facilitates nociceptive and neuropathic pain. Communications biology, 8(1), 416.

Araragi N, et al. (2025) Acute Optogenetic Stimulation of Serotonin Neurons Reduces Cell Proliferation in the Dentate Gyrus of Mice. ACS chemical neuroscience, 16(5), 781.

Melikov R, et al. (2025) Longitudinal and Noninvasive Intracellular Recordings of Spontaneous Electrophysiological Activity in Rat Primary Neurons on Planar MEA Electrodes. Advanced materials (Deerfield Beach, Fla.), 37(8), e2412697.

Dickstein DL, et al. (2025) Structural plasticity of pyramidal cell neurons measured after FLASH and conventional dose-rate irradiation. Brain structure & function, 230(2), 41.

Chrysostomou V, et al. (2025) The Effect of Advancing Age and Intraocular Pressure Injury on Retinal Ganglion Cell Function and Synaptic Connectivity. Aging cell, 24(6), e70005.

Dourado M, et al. (2025) Neuromodulation of Dopamine D2 Receptors Alters Orbitofrontal Neuronal Activity and Reduces Risk-Prone Behavior in Male Rats with Inflammatory Pain. Molecular neurobiology, 62(7), 8187.