Resource Summary Report

Generated by nidm-terms on Aug 9, 2026

WinLTP

RRID:SCR_008590
Type: Tool

Proper Citation

WinLTP (RRID:SCR_008590)

Resource Information

URL: http://www.ltp-program.com

Proper Citation: WinLTP (RRID:SCR_008590)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on Jan 16th 2025. WinLTP is a stimulation, data acquisition and on-line analysis electrophysiological software for studying Long-Term Potentiation (LTP), Long-term Depression (LTD), and related phenomena. WinLTP is multitasking and simultaneously runs 1) LTP stimulus/acquisition/analyzing sweeps with protocol scripting, and 2) continuous acquisition saving Axon Binary Files (abf). WinLTP runs on Windows PCI bus computers and uses National Instruments PCI M-Series boards and Axon Instruments'' Digidata 1320A and 1322A data acquisition boards. Other software that can use the M-Series boards includes Axograph Scientific''s AxoGraph X, WaveMetrics'' IGOR, National Instruments'' LabView, John Dempster''s Strathclyde Electrophysiology Suite (WinWCP and WinEDR), Silver lab''s Nclamp, and QUB data acquisition., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Synonyms: WinLTP

Resource Type: software resource

Defining Citation: DOI:10.1016/j.jneumeth.2006.12.018

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: WinLTP

Resource ID: SCR_008590

Alternate IDs: nif-0000-31907

Record Creation Time: 20220129T080248+0000

Record Last Update: 20260808T185918+0000

Ratings and Alerts

No rating or validation information has been found for WinLTP.

No alerts have been found for WinLTP.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 220 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Tomé AR, et al. (2026) The antidepressant-like effect of adenosine A1 receptor over-expression in forebrain neurons does not involve an altered adenosine-mediated control of excitatory synaptic transmission. Neuropharmacology, 298, 111056.

Baldwin AG, et al. (2025) Discovery of MDI-114215: A Potent and Selective LIMK Inhibitor To Treat Fragile X Syndrome. Journal of medicinal chemistry, 68(1), 719.

Vitale RM, et al. (2025) Identification of Cannabidiolic and Cannabigerolic Acids as MTDL AChE, BuChE, and BACE-1 Inhibitors Against Alzheimer's Disease by In Silico, In Vitro, and In Vivo Studies. Phytotherapy research : PTR, 39(1), 233.

Volianskis R, et al. (2024) Cage effects on synaptic plasticity and its modulation in a mouse model of fragile X syndrome. Philosophical transactions of the Royal Society of London. Series B, Biological sciences, 379(1906), 20230484.

Haikonen J, et al. (2024) GluK1 kainate receptors are necessary for functional maturation of parvalbumin interneurons regulating amygdala circuit function. Molecular psychiatry, 29(12), 3752.

Kareemo DJ, et al. (2024) Genetically encoded intrabody probes for labeling and manipulating AMPA-type glutamate receptors. Nature communications, 15(1), 10374.

Masella G, et al. (2024) The amygdala NT3-TrkC pathway underlies inter-individual differences in fear extinction and related synaptic plasticity. Molecular psychiatry, 29(5), 1322.

Anjum R, et al. (2024) Rem2 interacts with CaMKII at synapses and restricts long-term potentiation in hippocampus. bioRxiv : the preprint server for biology.

Fonseca-Gomes J, et al. (2024) A small TAT-TrkB peptide prevents BDNF receptor cleavage and restores synaptic physiology in Alzheimer's disease. Molecular therapy : the journal of the American Society of Gene Therapy, 32(10), 3372.

Siwiec M, et al. (2024) Activation of 5-HT7 receptors in the mouse dentate gyrus does not affect theta-burst-induced plasticity at the perforant path synapse. Pharmacological reports : PR, 76(6), 1377.

Yoon KN, et al. (2024) Chronic ultraviolet irradiation induces memory deficits via dysregulation of the dopamine pathway. Experimental & molecular medicine, 56(6), 1401.

Früh S, et al. (2024) Monoallelic de novo AJAP1 loss-of-function variants disrupt trans-synaptic control of neurotransmitter release. Science advances, 10(28), eadk5462.

Sánchez-Fernández N, et al. (2024) A combination of ?9-tetrahydrocannabinol and cannabidiol modulates glutamate dynamics in the hippocampus of an animal model of Alzheimer's disease. Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics, 21(5), e00439.

Ingram R, et al. (2024) Incremental induction of NMDAR-STP and NMDAR-LTP in the CA1 area of ventral hippocampal slices relies on graded activation of discrete NMDA receptors. Philosophical transactions of the Royal Society of London. Series B, Biological sciences, 379(1906), 20230239.

Park K, et al. (2024) Fear conditioning and extinction distinctively alter bidirectional synaptic plasticity within the amygdala of an animal model of post-traumatic stress disorder. Neurobiology of stress, 29, 100606.

Tian W, et al. (2024) Remote neurostimulation through an endogenous ion channel using a near-infrared light-activatable nanoagonist. Science advances, 10(32), eadn0367.

Kang H, et al. (2024) GolpHCat (TMEM87A), a unique voltage-dependent cation channel in Golgi apparatus, contributes to Golgi-pH maintenance and hippocampus-dependent memory. Nature communications, 15(1), 5830.

Anjum R, et al. (2024) Rem2 interacts with CaMKII at synapses and restricts long-term potentiation in hippocampus. PloS one, 19(7), e0301063.

Khaled H, et al. (2024) The TrkC-PTP? complex governs synapse maturation and anxiogenic avoidance via synaptic protein phosphorylation. The EMBO journal, 43(22), 5690.

Hatch K, et al. (2024) The role of microglia in neuronal and cognitive function during high altitude acclimatization. Scientific reports, 14(1), 18981.