Resource Summary Report

Generated by <u>NIF</u> on May 23, 2025

WinWCP

RRID:SCR_014713 Type: Tool

Proper Citation

WinWCP (RRID:SCR_014713)

Resource Information

URL: http://spider.science.strath.ac.uk/sipbs/software_ses.htm

Proper Citation: WinWCP (RRID:SCR_014713)

Description: Windows software program for recording and analyzing signals from whole cell voltage and current clamp experiments. Its features include automatic waveform measurement, quantal content analysis, command voltage pulse generation, and spontaneous event detection.

Synonyms: Windows Whole Cell Program

Resource Type: data acquisition software, data processing software, data analysis software, software application, software resource

Keywords: data analysis software, whole cell, voltage, current, clamp experiments, neuron, neuroinformatics, single cell recording

Funding:

Availability: Open source for academic and non-profit use, License available for purchase for commercial organizations

Resource Name: WinWCP

Resource ID: SCR_014713

Record Creation Time: 20220129T080321+0000

Record Last Update: 20250523T055040+0000

Ratings and Alerts

No rating or validation information has been found for WinWCP.

No alerts have been found for WinWCP.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 389 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

Petrov K, et al. (2025) An ?7 nicotinic and GABAB receptor-mediated pathway controls acetylcholine release in the tripartite neuromuscular junction. The Journal of physiology, 603(2), 507.

Duan X, et al. (2025) Suppression of epileptic seizures by transcranial activation of K+-selective channelrhodopsin. Nature communications, 16(1), 559.

Dolenšek J, et al. (2025) Ultrafast multicellular calcium imaging of calcium spikes in mouse beta cells in tissue slices. Acta physiologica (Oxford, England), 241(2), e14261.

Di Palma M, et al. (2025) Adenosine A2A receptor activation is necessary to gate the TrkBdependent intramuscular nerve sprouting during muscle reinnervation after a nerve crush. Heliyon, 11(1), e41441.

Griesius S, et al. (2025) Supralinear dendritic integration in murine dendrite-targeting interneurons. eLife, 13.

Liao JZ, et al. (2024) Cdk8/CDK19 promotes mitochondrial fission through Drp1 phosphorylation and can phenotypically suppress pink1 deficiency in Drosophila. Nature communications, 15(1), 3326.

Wietek J, et al. (2024) A bistable inhibitory optoGPCR for multiplexed optogenetic control of neural circuits. Nature methods, 21(7), 1275.

Lalo U, et al. (2024) Astrocyte ryanodine receptors facilitate gliotransmission and astroglial modulation of synaptic plasticity. Frontiers in cellular neuroscience, 18, 1382010.

Guinet A, et al. (2024) Cell-type specific inhibitory plasticity in subicular pyramidal cells. Frontiers in cellular neuroscience, 18, 1368627.

Zhang Y, et al. (2024) Stereoselective block of the hERG potassium channel by the Class Ia

antiarrhythmic drug disopyramide. Cellular and molecular life sciences : CMLS, 81(1), 466.

Kuwabara MF, et al. (2024) Zinc inhibits the voltage-gated proton channel HCNL1. Biophysical journal, 123(24), 4256.

Feizy N, et al. (2024) In vivo identification of Drosophila rhodopsin interaction partners by biotin proximity labeling. Scientific reports, 14(1), 1986.

Pelaez MC, et al. (2024) Reversal of cognitive deficits in FUSR521G amyotrophic lateral sclerosis mice by arimoclomol and a class I histone deacetylase inhibitor independent of heat shock protein induction. Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics, 21(5), e00388.

Kaabeche M, et al. (2024) Cardiotoxicity of the diamide insecticide chlorantraniliprole in the intact heart and in isolated cardiomyocytes from the honey bee. Scientific reports, 14(1), 14938.

Xin W, et al. (2024) Oligodendrocytes and myelin limit neuronal plasticity in visual cortex. Nature, 633(8031), 856.

Li M, et al. (2024) Isoflurane anesthesia decreases excitability of inhibitory neurons in the basolateral amygdala leading to anxiety?like behavior in aged mice. Experimental and therapeutic medicine, 28(4), 399.

Selfe JS, et al. (2024) All-optical reporting of inhibitory receptor driving force in the nervous system. Nature communications, 15(1), 8913.

Castagnola T, et al. (2024) Co-release of GABA and ACh from medial olivocochlear neurons fine tunes cochlear efferent inhibition. bioRxiv : the preprint server for biology.

Kvetkina AN, et al. (2024) Sea Anemone Kunitz Peptide HCIQ2c1: Structure, Modulation of TRPA1 Channel, and Suppression of Nociceptive Reaction In Vivo. Marine drugs, 22(12).

Weman HM, et al. (2024) Spinal Glycine Receptor Alpha 3 Cells Communicate Sensations of Chemical Itch in Hairy Skin. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(19).