

Resource Summary Report

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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

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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 analysis software, software resource, data acquisition software, software application, data processing software

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

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: 20260728T043446+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 412 mentions in open access literature.

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

Minere M, et al. (2025) Presynaptic hyperexcitability reversed by positive allosteric modulation of a GABABR epilepsy variant. *Brain : a journal of neurology*, 148(2), 533.

Alfonsa H, et al. (2025) Sleep-wake-related changes in intracellular chloride regulate plasticity at glutamatergic cortical synapses. *Current biology : CB*, 35(6), 1373.

Mermet-Joret N, et al. (2025) Dual-color optical activation and suppression of neurons with high temporal precision. *eLife*, 12.

Olivares J, et al. (2025) Odorant representations indicate nonlinear processing across the olfactory system. *Cerebral cortex (New York, N.Y. : 1991)*, 35(5).

Simon A, et al. (2025) Calcium regulation of muscle spindle mechanosensory afferent function. *Experimental physiology*, 110(10), 1457.

Nam YW, et al. (2025) Cryo-EM structures of the small-conductance Ca²⁺-activated KCa_{2.2} channel. *Nature communications*, 16(1), 3690.

Franck MCM, et al. (2025) Spinal lumbar Urocortin 3-expressing neurons are associated with both scratching and Compound 48/80-induced sensations. *Pain*, 166(5), 1070.

Riquelme D, et al. (2025) Long-term muscarinic inhibition increases intrinsic excitability through the upregulation of A-type potassium currents in cortical neurons. *Frontiers in cell and developmental biology*, 13, 1570424.

Abueva CD, et al. (2025) Development of NIR photocleavable nanoparticles with BDNF for vestibular neuron regeneration. *Journal of nanobiotechnology*, 23(1), 209.

Zhang Y, et al. (2025) Optogenetic induction of subcellular Ca²⁺ events in megakaryocytes and platelets using a highly Ca²⁺-conductive channelrhodopsin. *Communications biology*, 8(1), 1433.

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.

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

Morgante G, et al. (2025) Ips typographus vision system: a comprehensive study. Journal of comparative physiology. A, Neuroethology, sensory, neural, and behavioral physiology, 211(1), 101.

Belušić G, et al. (2025) Remarkable red colour vision in two Mediterranean beetle pollinators. The Journal of experimental biology, 228(12).

Peters KZ, et al. (2025) Food seeking suppression by environmental enrichment accompanies cell type- and circuit-specific prelimbic cortical modulation. bioRxiv : the preprint server for biology.

Chu CH, et al. (2025) Nuclear paxillin functions as a molecular switch for alternative splicing in neurons during a critical period of brain development. The EMBO journal.

Pabst O, et al. (2025) Recording and modeling of pinched hysteresis loops, the fingerprint of a memristor, in neurons. Scientific reports, 15(1), 37212.

Kherbouche O, et al. (2025) Induced Overexpression of Connexin43 in Astrocytes Attenuates the Progression of Experimental Temporal Lobe Epilepsy. Neurochemical research, 50(5), 303.

Frank A, et al. (2025) Electroconvulsive Therapy Induces Dopaminergic Axon Regeneration, Corticostriatal Remodeling, and Restoration of Motor Function in Parkinsonian Mice. bioRxiv : the preprint server for biology.