Resource Summary Report

Generated by NIF on Apr 21, 2025

pClamp

RRID:SCR_011323
Type: Tool

Proper Citation

pClamp (RRID:SCR_011323)

Resource Information

URL: http://www.moleculardevices.com/products/software/pclamp.html

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Description: Software suite for electrophysiology data acquisition and analysis by Molecular Devices. Used for the control and recording of voltage clamp, current clamp, and patch clamp experiments. The software suite consists of Clampex 11 Software for data acquisition, AxoScope 11 Software for background recording, Clampfit 11 Software for data analysis, and optional Clampfit Advanced Analysis Module for sophisticated and streamlined analysis.

Synonyms: patch clamp, Axon™pCLAMP™ 10 Electrophysiology Data Acquisition and Analysis Software, patch CLAMP, pCLAMP 11, pCLAMP 10, patch Clamp

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

Keywords: electrophysiology, data, acquisition, analysis, Molecular Device, voltage, clamp,

Funding:

Availability: Commercially available

Resource Name: pClamp

Resource ID: SCR_011323

Alternate IDs: rid_000085

Alternate URLs: https://www.moleculardevices.com/products/axon-patch-clamp-system/acquisition-and-analysis-software/pclamp-software-suite#gref

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Ratings and Alerts

No rating or validation information has been found for pClamp.

No alerts have been found for pClamp.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 9066 mentions in open access literature.

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

Kwak M, et al. (2025) The mutual interaction of TRPC5 channel with polycystin proteins. The Korean journal of physiology & pharmacology : official journal of the Korean Physiological Society and the Korean Society of Pharmacology, 29(1), 93.

Belal M, et al. (2025) The background sodium leak channel NALCN is a major controlling factor in pituitary cell excitability. The Journal of physiology, 603(2), 301.

Kalogriopoulos NA, et al. (2025) Synthetic GPCRs for programmable sensing and control of cell behaviour. Nature, 637(8044), 230.

Gupta S, et al. (2025) Distinct properties and activation of hexameric and heptameric Pannexin 1 channel concatemers. The Journal of general physiology, 157(1).

Bearss RJ, et al. (2025) Activation of ionotropic and group I metabotropic glutamate receptors stimulates kisspeptin neuron activity in mice. Journal of neuroendocrinology, 37(1), e13456.

Hauptman JS, et al. (2025) Chronic Rapamycin Prevents Electrophysiological and Morphological Alterations Produced by Conditional Pten Deletion in Mouse Cortex. Cells, 14(2).

Lu X, et al. (2025) Structural insights into the activation mechanism of the human zinc-activated channel. Nature communications, 16(1), 442.

Bisen RS, et al. (2025) Nutritional state-dependent modulation of insulin-producing cells in Drosophila. eLife, 13.

Mabry SJ, et al. (2025) Fusobacterium nucleatum determines the expression of amphetamine-induced behavioral responses through an epigenetic phenomenon. bioRxiv : the preprint server for biology.

Barón-Mendoza I, et al. (2025) Single-nucleotide polymorphism analysis accurately predicts multiple impairments in hippocampal activity and memory performance in a murine model of idiopathic autism. Scientific reports, 15(1), 749.

Zheng N, et al. (2025) Electrophysiology-based screening identifies neuronal HtrA serine peptidase 2 (HTRA2) as a synaptic plasticity regulator participating in tauopathy. Translational psychiatry, 15(1), 5.

Yang X, et al. (2025) Neuronal LAG3 facilitates pathogenic ?-synuclein neuron-to-neuron propagation. bioRxiv : the preprint server for biology.

Pardillo-Díaz R, et al. (2025) The subventricular zone neurogenic niche provides adult born functional neurons to repair cortical brain injuries in response to diterpenoid therapy. Stem cell research & therapy, 16(1), 1.

Lee HY, et al. (2025) The antipsychotic chlorpromazine reduces neuroinflammation by inhibiting microglial voltage-gated potassium channels. Glia, 73(1), 210.

Courjaret RJ, et al. (2025) Ca2+ tunneling architecture and function are important for secretion. The Journal of cell biology, 224(1).

Zhang Y, et al. (2025) Higher-order transient structures and the principle of dynamic connectivity in membrane signaling. Proceedings of the National Academy of Sciences of the United States of America, 122(1), e2421280121.

Konishi CT, et al. (2025) Modeling and correction of protein conformational disease in iPSC-derived neurons through personalized base editing. Molecular therapy. Nucleic acids, 36(1), 102441.

Zhang J, et al. (2025) Cpeb1 remodels cell type-specific translational program to promote fear extinction. Science advances, 11(2), eadr8687.

Chen L, et al. (2025) Motor cortical neuronal hyperexcitability associated with ?-synuclein aggregation. NPJ Parkinson's disease, 11(1), 18.

Wei AD, et al. (2025) Fentanyl blockade of K+ channels contribute to Wooden Chest Syndrome. bioRxiv : the preprint server for biology.