Resource Summary Report

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Strathclyde Electrophysiology Suite

RRID:SCR_014270
Type: Tool

Proper Citation

Strathclyde Electrophysiology Suite (RRID:SCR_014270)

Resource Information

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

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Description: A suite of programs for recording and analyzing signals from intracellular electrophysiology experiments. A list of the latest software is available from the website. The programs work with common electrophysiological laboratory interface units, including: Cambridge Electronic Design 1401 / 1401plus / Micro1401 / Power 1401; Axon Instruments Digidata 1200 or 1320/22, 1440, 1550, 1550A; Instrutech ITC16 or ITC-18; National Instruments multifunction interface cards; Biologic VP500; Tecella patch clamps; and Heka EPC-9, EPC-10.

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

Keywords: intracellular electrophysiology experiment, electrophysiology laboratory, electrophysiology suite, data analysis software

Funding:

Availability: Source code available

Resource Name: Strathclyde Electrophysiology Suite

Resource ID: SCR_014270

License URLs:
http://spider.science.strath.ac.uk/sipbs/showPage.php?page=software_conditions

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Ratings and Alerts

No rating or validation information has been found for Strathclyde Electrophysiology Suite.

No alerts have been found for Strathclyde Electrophysiology Suite.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Al Abed AS, et al. (2024) Parvalbumin interneuron activity in autism underlies susceptibility to PTSD-like memory formation. iScience, 27(5), 109747.

Martínez San Segundo P, et al. (2024) Protocol to correlate electron microscopy with electrophysiology in single-cell autaptic microcultures. STAR protocols, 5(2), 103003.

Matsubara M, et al. (2024) Critical amino acid residues regulating TRPA1 Zn2+ response: A comparative study across species. The Journal of biological chemistry, 300(6), 107302.

Gada KD, et al. (2023) Optogenetic dephosphorylation of phosphatidylinositol 4,5 bisphosphate in Xenopus laevis oocytes. STAR protocols, 4(1), 102003.

Coppi E, et al. (2022) Selective block of adenosine A2A receptors prevents ischaemic-like effects induced by oxygen and glucose deprivation in rat medium spiny neurons. British journal of pharmacology, 179(20), 4844.

Redman RR, et al. (2022) Donepezil inhibits neuromuscular junctional acetylcholinesterase and enhances synaptic transmission and function in isolated skeletal muscle. British journal of pharmacology, 179(24), 5273.

Li S, et al. (2022) Sarco/endoplasmic reticulum Ca2+ -ATPase (SERCA2b) mediates oxidation-induced endoplasmic reticulum stress to regulate neuropathic pain. British journal of pharmacology, 179(9), 2016.

Jensen TP, et al. (2021) Release probability increases towards distal dendrites boosting high-frequency signal transfer in the rodent hippocampus. eLife, 10.

Fenk LM, et al. (2021) Suppression of motion vision during course-changing, but not course-stabilizing, navigational turns. Current biology : CB, 31(20), 4608.

Taylor HBC, et al. (2021) Long-term depression links amyloid-? to the pathological hyperphosphorylation of tau. Cell reports, 36(9), 109638.

Owen B, et al. (2021) Effects of divalent cations on Schaffer collateral axon function. Experimental brain research, 239(10), 3045.

Zhao F, et al. (2021) Surfactant cocamide monoethanolamide causes eye irritation by activating nociceptor TRPV1 channels. British journal of pharmacology, 178(17), 3448.

Henneberger C, et al. (2020) LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Perisynaptic Astroglia. Neuron, 108(5), 919.

Marzo A, et al. (2016) Reversal of Synapse Degeneration by Restoring Wnt Signaling in the Adult Hippocampus. Current biology : CB, 26(19), 2551.

Wild AR, et al. (2015) Mechanisms regulating spill-over of synaptic glutamate to extrasynaptic NMDA receptors in mouse substantia nigra dopaminergic neurons. The European journal of neuroscience, 42(9), 2633.

Ronzitti G, et al. (2014) Exogenous ?-synuclein decreases raft partitioning of Cav2.2 channels inducing dopamine release. The Journal of neuroscience : the official journal of the Society for Neuroscience, 34(32), 10603.