

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 application, data analysis software, software resource

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

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 17 mentions in open access literature.

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

Zheng D, et al. (2025) Neural mechanism of the sexually dimorphic winner effect in mice. *Neuron*, 113(24), 4217.

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 biphosphate 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- β 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 α -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.