

Resource Summary Report

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MC Rack

RRID:SCR_014955

Type: Tool

Proper Citation

MC Rack (RRID:SCR_014955)

Resource Information

URL: <http://www.multichannelsystems.com/software/mc-rack>

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Description: Commercial data acquisition and analysis software that forms a data acquisition system for measuring extracellular activities of excitable cells in vitro and in vivo. It has been developed especially for use with the data acquisition systems from Multi Channel Systems MCS, but the software can also be used with other experimental setups.

Synonyms: MC_Rack

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

Keywords: data acquisition, data analysis, software, commercial, extracellular excitable cell, in vitro, in vivo

Availability: Commercially available

Resource Name: MC Rack

Resource ID: SCR_014955

License URLs: <http://www.multichannelsystems.com/content/terms-and-conditions>

Record Creation Time: 20220129T080323+0000

Record Last Update: 20260810T040636+0000

Ratings and Alerts

No rating or validation information has been found for MC Rack.

No alerts have been found for MC Rack.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 186 mentions in open access literature.

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

Jorgensen A, et al. (2026) Tumor-Infiltrating Nociceptor Neurons in Ovarian Cancer Treatment Resistance. *Advanced biology*, 10(3), e00404.

Lallouet M, et al. (2026) Pancreatic β cells are required for nutrient homeostasis by regulating dynamic β cell networks in islets. *Science advances*, 12(27), eaea9045.

Grass T, et al. (2026) Isogenic cortical organoids enable precision targeting of APP variant-specific pathways in Alzheimer's disease. *bioRxiv : the preprint server for biology*.

Lehtomäki K, et al. (2026) Long-latency auditory evoked responses across species show increased amplitude during early life. *Cerebral cortex* (New York, N.Y. : 1991), 36(1).

de Andrés-López J, et al. (2026) Small peptides derived from the autoinhibitory XY linker of phospholipase C- β isoforms inhibit enzyme activity and reduce inflammation. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 198, 119272.

Gibbons GM, et al. (2026) A human corticospinal organoid-slice connectoid model informs enhancer strategies for post-injury axon regrowth. *Cell reports*, 45(6), 117399.

Estarellas C, et al. (2026) Synaptic plasticity in the perforant pathway drives inhibitory reorganization enhancing dentate gyrus functionality. *iScience*, 29(3), 114878.

Craey E, et al. (2026) Feedback control of excitability and high K⁺ induced epileptiform bursts in male rat hippocampal slices with a photocaged adenosine A1 receptor agonist. *British journal of pharmacology*, 183(10), 2578.

Derounian R, et al. (2025) Protocol for recording and analyzing neuronal network activity ex vivo with multi-electrode arrays in mouse brain tissue. *STAR protocols*, 6(3), 104019.

Pinedo-Vargas L, et al. (2025) Combined Effects of Intermittent Hypoxia and Amyloid Beta on Hippocampal Activity, Its Cholinergic Modulation, and Memory. *Hippocampus*, 35(4), e70017.

Hwang J, et al. (2025) Memory improving effect of silkworm larva on insulin resistance related cognitive impairment model. *PloS one*, 20(7), e0328847.

Stangner K, et al. (2025) Apremilast improves cardiomyocyte cohesion and arrhythmia in different models for arrhythmogenic cardiomyopathy. *Stem cell research & therapy*, 16(1), 609.

Yacoub M, et al. (2025) Neuronal growth patterns and synapse formation are mediated by distinct activity-dependent mechanisms. *Scientific reports*, 15(1), 17338.

Striebel J, et al. (2025) Reproducible Human Neural Circuits Printed with Single-Cell Precision Reveal the Functional Roles of Ephaptic Coupling. *ACS nano*, 19(44), 38457.

Lassers SB, et al. (2025) Impact of the entorhinal feed-forward connection to the CA3 on hippocampal coding. *PloS one*, 20(7), e0326032.

Slaviero AN, et al. (2025) Control of Synaptic Communication through Molecularly Engineered Bioluminescence Light Emission and Sensing. *bioRxiv : the preprint server for biology*.

Zhong L, et al. (2024) Targeting the IKs Channel PKA Phosphorylation Axis to Restore Its Function in High-Risk LQT1 Variants. *Circulation research*, 135(7), 722.

Ambrosini AE, et al. (2024) Alpha herpesvirus exocytosis from neuron cell bodies uses constitutive secretory mechanisms, and egress and spread from axons is independent of neuronal firing activity. *PLoS pathogens*, 20(4), e1012139.

Barabino V, et al. (2024) Investigating the interplay between segregation and integration in developing cortical assemblies. *Frontiers in cellular neuroscience*, 18, 1429329.

Wang M, et al. (2024) Spindle oscillations in communicating axons within a reconstituted hippocampal formation are strongest in CA3 without thalamus. *Scientific reports*, 14(1), 8384.