

Resource Summary Report

Generated by [kravitz2](#) on Aug 1, 2026

HBio: Multichannel Systems: MEA2100 System

RRID:SCR_014809

Type: Tool

Proper Citation

HBio: Multichannel Systems: MEA2100 System (RRID:SCR_014809)

Resource Information

URL: <http://www.multichannelsystems.com/products/mea2100-systems>

Proper Citation: HBio: Multichannel Systems: MEA2100 System (RRID:SCR_014809)

Description: In vitro recording system for electrophysiology research with integrated amplifier and stimulus generator, temperature control, and the option for real-time signal detection and feedback. The system can record up to 4 MEAs in parallel at a sampling rate of 50 kHz per channel.

Resource Type: instrument resource

Keywords: micro electrode array, mea, in vitro, electrophysiology, recording system, instrument, equipment

Availability: Commercially available

Specification URL: https://drive.google.com/file/d/1UiKZOj_UfxrLyB3ZH5ufOv7mURG_I-up/view?usp=drivesdk

Resource Name: HBio: Multichannel Systems: MEA2100 System

Resource ID: SCR_014809

Alternate URLs:

https://www.multichannelsystems.com/sites/multichannelsystems.com/files/documents/manuals/MCS2100_System_Manual.pdf

Record Creation Time: 20220129T080322+0000

Record Last Update: 20260725T190806+0000

Ratings and Alerts

No rating or validation information has been found for HBio: Multichannel Systems: MEA2100 System.

No alerts have been found for HBio: Multichannel Systems: MEA2100 System.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Ho C, et al. (2025) CXCL12 Engages Cortical Inhibitory Neurons to Enhance Dendritic Spine Plasticity and Structured Network Activity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(24).

Ruggiero A, et al. (2025) NMDA receptors regulate the firing rate set point of hippocampal circuits without altering single-cell dynamics. Neuron, 113(2), 244.

Gama de Barcellos Filho P, et al. (2024) Oxytocin and corticotropin-releasing hormone exaggerate nucleus tractus solitarii neuronal and synaptic activity following chronic intermittent hypoxia. The Journal of physiology, 602(14), 3375.

Sosulina L, et al. (2021) Hippocampal hyperactivity in a rat model of Alzheimer's disease. Journal of neurochemistry, 157(6), 2128.

Failor SW, et al. (2018) Monocular enucleation alters retinal waves in the surviving eye. Neural development, 13(1), 4.

Miceli S, et al. (2017) Impedance Spectrum in Cortical Tissue: Implications for Propagation of LFP Signals on the Microscopic Level. eNeuro, 4(1).