

Resource Summary Report

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Molecular Devices: MultiClamp 700B Microelectrode Amplifier

RRID:SCR_018455

Type: Tool

Proper Citation

Molecular Devices: MultiClamp 700B Microelectrode Amplifier (RRID:SCR_018455)

Resource Information

URL: <https://www.moleculardevices.com/sites/default/files/en/assets/data-sheets/dd/cns/multiclamp-700b-microelectrode-amplifier.pdf>

Proper Citation: Molecular Devices: MultiClamp 700B Microelectrode Amplifier (RRID:SCR_018455)

Description: Computer controlled amplifier for current clamp and voltage clamp applications from Molecular Devices, LLC. Amplifier used for electrophysiology and electrochemistry.

Synonyms: Multiclamp 700B

Resource Type: instrument resource

Keywords: Amplifier, computer controlled amplifier, current clamp, voltage clamp, Molecular Devices LLC, electrophysiology, electrochemistry, equipment, instrument

Availability: Restricted

Specification URL: https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/main/PDF/SCR_018455.pdf

Resource Name: Molecular Devices: MultiClamp 700B Microelectrode Amplifier

Resource ID: SCR_018455

Alternate URLs: <https://www.moleculardevices.com/sites/default/files/en/assets/data-sheets/dd/cns/multiclamp-700b-microelectrode-amplifier.pdf>

Record Creation Time: 20220129T080340+0000

Record Last Update: 20260815T182552+0000

Ratings and Alerts

No rating or validation information has been found for Molecular Devices: MultiClamp 700B Microelectrode Amplifier.

No alerts have been found for Molecular Devices: MultiClamp 700B Microelectrode Amplifier.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 65 mentions in open access literature.

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

Lee D, et al. (2026) Microglial VRK2 Regulates Astrocytic GABA Synthesis and Tonic Inhibition in the Thalamus. *Glia*, 74(1), e70101.

Lee D, et al. (2026) Juvenile-to-adult refinement of thalamic reticular circuits via LRRTM3 enables high-resolution sensory encoding. *Neuron*, 114(7), 1219.

Keum D, et al. (2026) Changes in Action Potential Properties in the Ferret Prefrontal Cortex During Adolescence. *The Journal of comparative neurology*, 534(1), e70121.

Benfey NJ, et al. (2026) Norepinephrine acts through radial astrocytes in the developing optic tectum to enhance threat detection and escape behavior. *Cell reports*, 45(2), 116911.

Fan J, et al. (2026) Neto2 Phosphorylation Promotes Neuronal Loss in KA-Induced Epileptic Rat Hippocampus by Upregulating the Interaction with GluK2. *Neurochemical research*, 51(3).

D'Addario SL, et al. (2026) Effects of neuromelanin buildup in rodent nigral dopamine neurons: implications for sex-biased vulnerability in Parkinson's disease. *Neurobiology of disease*, 223, 107378.

Lascorz R, et al. (2026) Age-dependent axonal dysfunctions and altered sharp-wave ripple oscillations in *Scn1a* +/- mice. *iScience*, 29(8), 116784.

Kolling LJ, et al. (2025) The superficial tufted and mitral cell output neurons of the mouse olfactory bulb have dual roles in insulin sensing. *Journal of cell science*, 138(19).

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

Ikefuama EC, et al. (2025) Presymptomatic targeted circuit manipulation for ameliorating Huntington's disease pathogenesis. *iScience*, 28(3), 112022.

Tian J, et al. (2025) Gpr176 modulates the firing pattern of parvalbumin-positive interneurons in the orbitofrontal cortex of mouse. *Molecular brain*, 18(1), 81.

Lee CR, et al. (2025) Separable dorsal raphe dopamine projections mimic the facets of a loneliness-like state. *eLife*, 14.

Kolling LJ, et al. (2025) The superficial tufted and mitral cell output neurons of the mouse olfactory bulb have dual roles in insulin sensing. *bioRxiv : the preprint server for biology*.

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

Springer K, et al. (2025) Mislocalization of KCNQ2 Channels as a Pathogenic Mechanism in KCNQ2 Developmental and Epileptic Encephalopathy. *The Journal of neuroscience : the official journal of the Society for Neuroscience*.

Singhal SM, et al. (2025) Mu-opioid receptor activation potentiates excitatory transmission at the habenulo-peduncular synapse. *Cell reports*, 44(7), 115874.

Paz RM, et al. (2025) Repetitive Levodopa Treatment Drives Cell Type-Specific Striatal Adaptations Associated With Progressive Dyskinesia in Parkinsonian Mice. *bioRxiv : the preprint server for biology*.

Cano JC, et al. (2025) Newly generated striatal neurons rescue motor circuitry in a Huntington's disease mouse model. *Cell reports*, 44(4), 115440.

Tyurikova O, et al. (2025) Astrocyte Kir4.1 expression level territorially controls excitatory transmission in the brain. *Cell reports*, 44(2), 115299.

Bruentgens F, et al. (2024) The Lack of Synapsin Alters Presynaptic Plasticity at Hippocampal Mossy Fibers in Male Mice. *eNeuro*, 11(7).