

Resource Summary Report

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FITMASTER

RRID:SCR_016233

Type: Tool

Proper Citation

FITMASTER (RRID:SCR_016233)

Resource Information

URL: http://www.heka.com/downloads/downloads_main.html#down_fitmaster

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Description: Software for analysis and fitting routines of electrophysiological data. Analysis can be performed on the levels of Sweeps/Traces and Series.

Synonyms: HEKA FITMASTER

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

Keywords: electrophysiology, analysis, fitting, statistic, polynomial, exponential, gaussian, boltzmann, formalism, voltage, current

Availability: Free, Available for download, Tutorial available, Demo available

Resource Name: FITMASTER

Resource ID: SCR_016233

License URLs: http://www.heka.com/about/about_main.html#terms

Record Creation Time: 20220129T080329+0000

Record Last Update: 20260805T044350+0000

Ratings and Alerts

No rating or validation information has been found for FITMASTER.

No alerts have been found for FITMASTER.

Data and Source Information

Usage and Citation Metrics

We found 97 mentions in open access literature.

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

Ghovanloo MR, et al. (2025) SCN3A-related neurodevelopmental disorder: Clinical case reports and biophysical characterization. Channels (Austin, Tex.), 19(1), 2580175.

Sesti V, et al. (2025) Membrane-targeted push-pull azobenzenes for the optical modulation of membrane potential. Light, science & applications, 14(1), 8.

Fan X, et al. (2025) Exosomal mir-126-3p derived from endothelial cells induces ion channel dysfunction by targeting RGS3 signaling in cardiomyocytes: a novel mechanism in Takotsubo cardiomyopathy. Stem cell research & therapy, 16(1), 36.

Stojanovic S, et al. (2025) Rebound Bursting Selectively Enables Fast Dynamics in Dopamine Midbrain Neurons Projecting to the Dorsolateral Striatum. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(44).

Pampols-Perez M, et al. (2025) Mechanosensitive PIEZO2 channels shape coronary artery development. Nature cardiovascular research, 4(7), 921.

Moubarak E, et al. (2025) Postnatal Development of Dendritic Morphology and Action Potential Shape in Rat Substantia Nigra Dopaminergic Neurons. eNeuro, 12(4).

Zhang J, et al. (2025) The transcription factor ZFP64 promotes activity-dependent synapse elimination during postnatal cerebellar development. iScience, 28(6), 112746.

Hartveit E, et al. (2025) HCN channels in rod bipolar cells of rat retina: subcellular localization, kinetic properties and functional dynamics. The Journal of physiology.

Skrabak D, et al. (2023) Slack K⁺ channels limit kainic acid-induced seizure severity in mice by modulating neuronal excitability and firing. Communications biology, 6(1), 1029.

Kapell H, et al. (2023) Neuron-oligodendrocyte potassium shuttling at nodes of Ranvier protects against inflammatory demyelination. The Journal of clinical investigation, 133(7).

Hussein RA, et al. (2023) Selenomethionine mis-incorporation and redox-dependent voltage-gated sodium channel gain of function. Journal of neurochemistry, 167(2), 262.

König C, et al. (2023) Prostaglandin EP3 receptor activation is antinociceptive in sensory neurons via PI3K?, AMPK and GRK2. British journal of pharmacology, 180(4), 441.

Verkest C, et al. (2022) Intrinsically disordered intracellular domains control key features of the mechanically-gated ion channel PIEZO2. Nature communications, 13(1), 1365.

El Hamdaoui Y, et al. (2022) Analysis of hyperforin (St. John's wort) action at TRPC6 channel leads to the development of a new class of antidepressant drugs. Molecular

psychiatry, 27(12), 5070.

Dai XQ, et al. (2022) Heterogenous impairment of β cell function in type 2 diabetes is linked to cell maturation state. Cell metabolism, 34(2), 256.

Lemmens V, et al. (2022) Hetero-pentamerization determines mobility and conductance of Glycine receptor β 3 splice variants. Cellular and molecular life sciences : CMLS, 79(11), 540.

Roy S, et al. (2022) Calcium regulates acid-sensing ion channel 3 activation by competing with protons in the channel pore and at an allosteric binding site. Open biology, 12(12), 220243.

Ghovanloo MR, et al. (2022) Inhibition of sodium conductance by cannabigerol contributes to a reduction of dorsal root ganglion neuron excitability. British journal of pharmacology, 179(15), 4010.

Ghovanloo MR, et al. (2021) Cannabidiol inhibits the skeletal muscle Nav1.4 by blocking its pore and by altering membrane elasticity. The Journal of general physiology, 153(5).

Prestigio C, et al. (2021) REST/NRSF drives homeostatic plasticity of inhibitory synapses in a target-dependent fashion. eLife, 10.