

Resource Summary Report

Generated by [dkNET](#) on Aug 30, 2026

Mini Analysis Program

RRID:SCR_002184

Type: Tool

Proper Citation

Mini Analysis Program (RRID:SCR_002184)

Resource Information

URL: <http://www.synaptosoft.com/MiniAnalysis/>

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Description: Software tool that detects peaks of any type, any shape, any direction, and any size for neuroscientists who are studying spontaneous activities. Allows detection of virtually any kind of peaks including spontaneous miniature synaptic currents and potentials, action potential spikes, calcium imaging peaks, amperometric peaks, ECG peaks etc. It includes the complex and multiple peak detection algorithm. Has post-detection analyses including essential plots and statistical parameters. Group Analysis provides specialized and detailed analysis options for action potentials, decay fitting, fEPSP/population spikes, amperometry, etc., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Abbreviations: Mini Analysis

Synonyms: Mini Analysis, MiniAnalysis

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

Keywords: Synaptosoft Inc., analysis, peak, spontaneous, activity, synaptic, current, potential, spike, calcium, image, amperometric, ECG, plot, statistical, parameter

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Mini Analysis Program

Resource ID: SCR_002184

Alternate IDs: SciRes_000143, SCR_014441

License: Commercial license

Record Creation Time: 20220129T080212+0000

Record Last Update: 20260829T182100+0000

Ratings and Alerts

No rating or validation information has been found for Mini Analysis Program.

No alerts have been found for Mini Analysis Program.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1147 mentions in open access literature.

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

Engel D, et al. (2026) Protocol for whole-cell patch-clamp recording and post hoc identification of hippocampal CA2 pyramidal neurons in adult mouse brain slices. STAR protocols, 7(2), 104470.

Zhao W, et al. (2026) Neuronal Igfbp2 deficiency in the prefrontal cortex impairs cognition through synaptic dysfunction in male mice. iScience, 29(5), 115629.

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

Ozkaya KS, et al. (2026) Brainstem Astrocytes Regulate Estrus-Dependent Oscillations in Food Intake. Journal of neurochemistry, 170(6), e70498.

Silva JDN, et al. (2026) KNDy neurons as an indirect target of insulin-like growth factor-1. Journal of neuroendocrinology, 38(1), e70130.

Cheng KH, et al. (2026) Conditional deletion of Cc2d1a increases irritability-like behavior by decreasing oxytocin expression via the prelimbic-hypothalamic pathway. Journal of biomedical science, 33(1).

Xiong S, et al. (2026) BEST1-mediated tonic excitation facilitates anxiety-like behaviors in a mouse model of chronic neuropathic pain. Cell reports, 45(4), 117229.

Kapoor S, et al. (2026) In vivo AGO-APP for cell-type- and compartment-specific miRNA profiling in the mouse brain. Cell reports methods, 6(1), 101267.

Leviskas B, et al. (2026) The Subcellular Localization of the Cystic Fibrosis Transmembrane Conductance Regulator in the Chicken Retina Suggests Multiple Roles in Retinal Function. Journal of neuroscience research, 104(1), e70109.

- Reijntjes DOJ, et al. (2026) Dopaminergic modulation of low- and high-spontaneous rate type I auditory nerve fiber activity. *Journal of neurophysiology*, 135(5), 1369.
- Leduc-Pessah H, et al. (2026) Runx1 transcription factor modulates opioid analgesia and withdrawal in humans and rodents. *Neuron*, 114(5), 903.
- Ma YN, et al. (2025) Prefrontal parvalbumin interneurons mediate CRHR1-dependent early-life stress-induced cognitive deficits in adolescent male mice. *Molecular psychiatry*, 30(6), 2407.
- Zhang G, et al. (2025) Cholecystokinin-expressing GABA neurons elicit long-term potentiation in the cortical inhibitory synapses and attenuate sound-shock associative memory. *Scientific reports*, 15(1), 31220.
- Di Berardino C, et al. (2025) Serotonin regulates in a cell-type specific manner light-evoked response and synaptic activity in mouse retinal ganglion cells. *Biological research*, 58(1), 11.
- Zhang J, et al. (2025) An antidepressant mechanism underlying the allosteric inhibition of GluN2D-incorporated NMDA receptors at GABAergic interneurons. *Science advances*, 11(10), eadq0444.
- Li H, et al. (2025) A phosphorylation switch in the Mediator MED15 controls cellular senescence and cognitive decline. *Cell discovery*, 11(1), 69.
- Han Z, et al. (2025) S-Nitrosylation of Dexras1 Controls Post-Stroke Recovery via Regulation of Neuronal Excitability and Dendritic Remodeling. *CNS neuroscience & therapeutics*, 31(1), e70199.
- Wang K, et al. (2025) GPR37 Activation Alleviates Bone Cancer Pain via the Inhibition of Osteoclastogenesis and Neuronal Hyperexcitability. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(14), e2417367.
- Di Matteo F, et al. (2025) Neuronal hyperactivity in neurons derived from individuals with gray matter heterotopia. *Nature communications*, 16(1), 1737.
- Zhong H, et al. (2025) S-ketamine exposure in early postnatal period induces social deficit mediated by excessive microglial synaptic pruning. *Molecular psychiatry*, 30(8), 3615.