Resource Summary Report

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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.

Abbreviations: Mini Analysis

Synonyms: Mini Analysis, MiniAnalysis

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

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

Availability: Restricted

Resource Name: Mini Analysis Program

Resource ID: SCR_002184

Alternate IDs: SciRes_000143, SCR_014441

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 1070 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Raabe FJ, et al. (2024) Polygenic risk for schizophrenia converges on alternative polyadenylation as molecular mechanism underlying synaptic impairment. bioRxiv : the preprint server for biology.

Lv SS, et al. (2024) Corticotropin-releasing hormone neurons control trigeminal neuralgia-induced anxiodepression via a hippocampus-to-prefrontal circuit. Science advances, 10(3), eadj4196.

Qi F, et al. (2023) VEGF-A in serum protects against memory impairment in APP/PS1 transgenic mice by blocking neutrophil infiltration. Molecular psychiatry, 28(10), 4374.

Matsunaga W, et al. (2023) GAD65 deficient mice are susceptible to ethanol-induced impairment of motor coordination and facilitation of cerebellar neuronal firing. PloS one, 18(5), e0286031.

Young TR, et al. (2023) Thalamocortical control of cell-type specificity drives circuits for processing whisker-related information in mouse barrel cortex. Nature communications, 14(1), 6077.

Wang M, et al. (2023) Lateral septum adenosine A2A receptors control stress-induced depressive-like behaviors via signaling to the hypothalamus and habenula. Nature communications, 14(1), 1880.

Wang W, et al. (2023) Striatal ?-opioid receptor activation triggers direct-pathway GABAergic plasticity and induces negative affect. Cell reports, 42(2), 112089.

Hirono M, et al. (2023) Ghrelin signaling in the cerebellar cortex enhances GABAergic transmission onto Purkinje cells. Scientific reports, 13(1), 2150.

Baek JH, et al. (2023) Glutamine Supplementation Preserves Glutamatergic Neuronal Activity in the Infralimbic Cortex, Which Delays the Onset of Mild Cognitive Impairment in

3×Tg-AD Female Mice. Nutrients, 15(12).

Zhang SQ, et al. (2023) Cell type-specific NRBF2 orchestrates autophagic flux and adult hippocampal neurogenesis in chronic stress-induced depression. Cell discovery, 9(1), 90.

Peng W, et al. (2023) Adenosine-independent regulation of the sleep-wake cycle by astrocyte activity. Cell discovery, 9(1), 16.

Balakrishnan K, et al. (2023) Targeting the interaction of GABAB receptors with CaMKII with an interfering peptide restores receptor expression after cerebral ischemia and inhibits progressive neuronal death in mouse brain cells and slices. Brain pathology (Zurich, Switzerland), 33(1), e13099.

Vazquez-Juarez E, et al. (2023) The effect of ketamine on synaptic mistuning induced by impaired glutamate reuptake. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 48(13), 1859.

Grochowska KM, et al. (2023) Jacob-induced transcriptional inactivation of CREB promotes A?-induced synapse loss in Alzheimer's disease. The EMBO journal, 42(4), e112453.

Scott H, et al. (2023) Glia-neuron coupling via a bipartite sialylation pathway promotes neural transmission and stress tolerance in Drosophila. eLife, 12.

Wang T, et al. (2023) Long-term potentiation-based screening identifies neuronal PYGM as a synaptic plasticity regulator participating in Alzheimer's disease. Zoological research, 44(5), 867.

Li HH, et al. (2023) PDGF-BB-Dependent Neurogenesis Buffers Depressive-Like Behaviors by Inhibition of GABAergic Projection from Medial Septum to Dentate Gyrus. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 10(22), e2301110.

Li M, et al. (2023) Caspase-1 affects chronic restraint stress-induced depression-like behaviors by modifying GABAergic dysfunction in the hippocampus. Translational psychiatry, 13(1), 229.

Pruunsild P, et al. (2023) Expression of the primate-specific LINC00473 RNA in mouse neurons promotes excitability and CREB-regulated transcription. The Journal of biological chemistry, 299(5), 104671.

Qin Z, et al. (2023) Berberine ameliorates depression-like behaviors in mice via inhibiting NLRP3 inflammasome-mediated neuroinflammation and preventing neuroplasticity disruption. Journal of neuroinflammation, 20(1), 54.