

Resource Summary Report

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KlustaKwik

RRID:SCR_014480

Type: Tool

Proper Citation

KlustaKwik (RRID:SCR_014480)

Resource Information

URL: <http://klusta-team.github.io/klustakwik/>

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Description: A program for cluster analysis by fitting a mixture of Gaussians. KlustaKwik works by implementing a hard EM algorithm with unconstrained covariance matrices. It was designed for the specific problem of spike sorting of multi-electrode arrays, but can be used for any application.

Resource Type: software resource, source code

Defining Citation: [DOI:10.1162/NECO_a_00661](https://doi.org/10.1162/NECO_a_00661)

Keywords: cluster analysis, gaussian, source code, spike sorting, array

Availability: Public, Source code available

Resource Name: KlustaKwik

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Alternate URLs: <https://github.com/klusta-team/klustakwik>

Old URLs: <http://klustakwik.sourceforge.net/>

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260912T200347+0000

Ratings and Alerts

No rating or validation information has been found for KlustaKwik.

No alerts have been found for KlustaKwik.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 297 mentions in open access literature.

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

Wang J, et al. (2026) Peroxisome Proliferator-Activated Receptor Gamma Coactivator-1? Deficiency in Hippocampal Astrocytes Underlies Enhanced Fear Memory Retrieval in Male Posttraumatic Stress Disorder Model Mice. MedComm, 7(3), e70671.

Aksenov DP, et al. (2026) Assessing change in neuro-vascular interactions. Neurolmage, 325, 121676.

Zheng Y, et al. (2026) Parvalbumin-positive neurons in the medial septum participate in the formation of hippocampal-dependent spatial memory. Nature communications, 17(1).

Liu SW, et al. (2026) Selective attention to auditory and visual modalities converges onto noncholinergic basal forebrain neurons. Science advances, 12(8), eadz7778.

Adam CD, et al. (2026) Disrupted hippocampal theta-gamma coupling and spike-field coherence following experimental traumatic brain injury. eLife, 13.

Szabó JP, et al. (2026) Neurons of the human subthalamic nucleus engage with local delta frequency processes during action cancellation. Nature communications, 17(1).

Tong J, et al. (2026) Long-Term Memory Updating Parallels Altered Awake and Sleep Hippocampal Replays. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(3), e16480.

Agarwal G, et al. (2026) Deciphering hippocampal place codes in weak theta rhythms. Nature communications, 17(1).

Zhu J, et al. (2026) Trajectories of Response Inhibition Development in Adolescence. bioRxiv : the preprint server for biology.

Vishwanath A, et al. (2025) Decoupling of motor cortex to movement in Parkinson's dyskinesia rescued by sub-anaesthetic ketamine. Brain : a journal of neurology, 148(6), 2135.

Wang J, et al. (2025) Cell-type-specific networks during hippocampal seizures at the micro- and macroscale. Brain : a journal of neurology, 148(10), 3592.

Zhu J, et al. (2025) Longitudinal measures of monkey brain structure and activity through adolescence predict cognitive maturation. Nature neuroscience, 28(11), 2344.

Wang Y, et al. (2025) Time-Dependent Therapeutic Effect of S-Ketamine on PTSD Mediated by VTA-OFC Dopaminergic Neurocircuit. Advanced science (Weinheim, Baden-

Wurttemberg, Germany), 12(46), e00805.

Asadi A, et al. (2025) Functional role of cell classes in monkey prefrontal cortex after learning a working memory task. *Communications biology*, 8(1), 703.

Kozal J, et al. (2025) Optogenetic stimulation of pyramidal neurons in the rat primary visual cortex modulates ON- and OFF- receptive field areas independently. *Scientific reports*, 15(1), 44838.

Pompili MN, et al. (2025) Ventral Hippocampus Modulates Prefrontal Control of Background Contextual Fear After Cued Extinction. *The European journal of neuroscience*, 62(8), e70287.

Latchoumane CV, et al. (2025) Mediodorsal thalamic nucleus mediates resistance to ethanol through Cav3.1 T-type Ca²⁺ regulation of neural activity. *eLife*, 13.

Krivoshein G, et al. (2025) Differential inhibitory effects of endocannabinoids on neuronal firing of mouse meningeal afferents. *The journal of headache and pain*, 26(1), 112.

Badawy M, et al. (2025) Major individual and regional variations in unit entrainment by oscillations of different frequencies. *Scientific reports*, 15(1), 1772.

Setogawa S, et al. (2025) Acquisition of auditory discrimination mediated by different processes through two distinct circuits linked to the lateral striatum. *eLife*, 13.