

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: source code, software resource

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: 20260807T042820+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](#) .

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).

Aksenov DP, et al. (2026) Assessing chance in neuro-vascular interactions. *NeuroImage*, 325, 121676.

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.

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.

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.

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

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.

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.

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

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.