

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

Resource ID: SCR_014480

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

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

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260729T044327+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 288 mentions in open access literature.

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

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.

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.

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.

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

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.

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.

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.

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

Pompili MN, et al. (2025) Adaptive communication between cell assemblies and "reader" neurons shapes flexible brain dynamics. *PLoS biology*, 23(12), e3003505.

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

Efron B, et al. (2025) Detection and neural encoding of whisker-generated sounds in mice. *Current biology : CB*, 35(6), 1211.

Pu S, et al. (2024) Prefrontal neuronal dynamics in the absence of task execution. *Nature communications*, 15(1), 6694.

Wang Y, et al. (2024) Dorsal Raphe Serotonergic Neurons-Ventral Tegmental Area Neural Pathway Promotes Wake From Sleep. *CNS neuroscience & therapeutics*, 30(11), e70141.

Li S, et al. (2024) Homeostatic Shrinkage of Dendritic Spines Requires Melatonin Type 3 Receptor Activation During Sleep. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 11(38), e2400253.

Ma L, et al. (2024) A distinct neuronal ensemble of prelimbic cortex mediates spontaneous pain in rats with peripheral inflammation. *Nature communications*, 15(1), 7922.

Barzan R, et al. (2024) Gain control of sensory input across polysynaptic circuitries in mouse visual cortex by a single G protein-coupled receptor type (5-HT2A). *Nature communications*, 15(1), 8078.

Sun Y, et al. (2024) Local organization of spatial and shape information in the primate prefrontal cortex. *Cerebral cortex (New York, N.Y. : 1991)*, 34(9).

Miranda M, et al. (2024) Retrieval of contextual memory can be predicted by CA3 remapping and is differentially influenced by NMDAR activity in rat hippocampus subregions. *PLoS biology*, 22(7), e3002706.