

Resource Summary Report

Generated by ASWG on Aug 2, 2026

KiloSort

RRID:SCR_016422

Type: Tool

Proper Citation

KiloSort (RRID:SCR_016422)

Resource Information

URL: <https://github.com/cortex-lab/Kilosort>

Proper Citation: KiloSort (RRID:SCR_016422)

Description: Software tool that implements an integrated template matching framework for detecting and clustering spikes from multi-channel electrophysiological recordings.

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

Keywords: implement, integrated, template, matching, framework, detect, cluster, spike, multi, channel, electrophysiology, recording, data

Availability: Free, Available for download, Freely available

Resource Name: KiloSort

Resource ID: SCR_016422

License: GNU General Public License v2.0

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260803T040720+0000

Ratings and Alerts

No rating or validation information has been found for KiloSort.

No alerts have been found for KiloSort.

Data and Source Information

Usage and Citation Metrics

We found 115 mentions in open access literature.

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

Pi??a Novo D, et al. (2025) Cortical dynamics in hand/forelimb S1 and M1 evoked by brief photostimulation of the mouse's hand. *eLife*, 14.

Horrocks M, et al. (2025) The serotonergic psychedelic DOI impairs deviance detection in the auditory cortex. *Journal of neurophysiology*, 133(2), 388.

Angeles-Perez L, et al. (2025) Cerebellar contributions to tau-mediated cognitive and behavioral dysfunction. *Cell reports*, 44(8), 116036.

Isaacson M, et al. (2025) MouseGoggles: an immersive virtual reality headset for mouse neuroscience and behavior. *Nature methods*, 22(2), 380.

Vega-Zuniga T, et al. (2025) A thalamic hub-and-spoke network enables visual perception during action by coordinating visuomotor dynamics. *Nature neuroscience*, 28(3), 627.

Woo J, et al. (2025) Dynamic changes in chloride homeostasis coordinate midbrain inhibitory network activity during reward learning. *Nature communications*, 16(1), 10903.

Ahmadlou M, et al. (2025) A subcortical switchboard for perseverative, exploratory and disengaged states. *Nature*, 641(8061), 151.

Reid AP, et al. (2025) Asynchronous development of the mouse auditory cortex is driven by hemispheric identity and sex. *Nature communications*, 16(1), 3654.

Abbaspoor S, et al. (2025) Experience reorganizes content-specific memory traces in macaques. *bioRxiv : the preprint server for biology*.

Khateb M, et al. (2025) Cortical Intra-Layer Hypersynchronization in Levodopa-Induced Dyskinesia Mouse Model. *Brain and behavior*, 15(10), e70963.

Ikefuama EC, et al. (2025) Presymptomatic targeted circuit manipulation for ameliorating Huntington's disease pathogenesis. *iScience*, 28(3), 112022.

Dellal S, et al. (2025) Inhibitory and disinhibitory VIP IN-mediated circuits in neocortex. *bioRxiv : the preprint server for biology*.

Castelli M, et al. (2025) Hippocampal ripple diversity organizes neuronal reactivation dynamics in the offline brain. *Neuron*, 113(24), 4245.

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

Paz RM, et al. (2025) Repetitive Levodopa Treatment Drives Cell Type-Specific Striatal Adaptations Associated With Progressive Dyskinesia in Parkinsonian Mice. *bioRxiv : the preprint server for biology*.

Moseley SM, et al. (2025) A Complex Acoustical Environment During Development Enhances Auditory Perception and Coding Efficiency in the Zebra Finch. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(7).

Sonoda T, et al. (2025) Limited transmission of mixed convergent signals at the mouse retinogeniculate synapse. *Neuron*.

Tanimoto S, et al. (2025) Learning-dependent 4 Hz synchronization in the posterior striatum, lateral geniculate nucleus, and visual cortex. *iScience*, 28(12), 113958.

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

Schmors L, et al. (2025) Effects of corticothalamic feedback depend on visual responsiveness and stimulus type. *iScience*, 28(6), 112481.