

# Resource Summary Report

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## KiloSort

RRID:SCR\_016422

Type: Tool

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### Proper Citation

KiloSort (RRID:SCR\_016422)

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### 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:** data processing software, software application, software resource, algorithm 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:** 20260810T040657+0000

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### Ratings and Alerts

No rating or validation information has been found for KiloSort.

No alerts have been found for KiloSort.

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### Data and Source Information

## Usage and Citation Metrics

We found 129 mentions in open access literature.

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

Causse AA, et al. (2026) A learning-evoked slow-oscillatory architecture paces population activity for offline reactivation across the human medial temporal lobe. *Neuron*.

Weiler S, et al. (2026) Protocol for minimizing off-target neuronal activation during optical stimulation in vivo. *STAR protocols*, 7(1), 104342.

Gopal A, et al. (2026) Multiple groups of neurons in the superior colliculus convert value signals into saccadic vigor. *iScience*, 29(2), 114563.

Shiotani K, et al. (2026) Encoding of odor information and reward anticipation in anterior cortical amygdaloid nucleus. *iScience*, 29(2), 114590.

Rautio IV, et al. (2026) Prefrontal cortex encodes behavior states decoupled from motor execution. *Cell reports*, 45(4), 117138.

Hosford PS, et al. (2026) Control of representation updating by higher-order thalamus enables history-based decision-making. *Neuron*.

Deveau CE, et al. (2026) Recurrent cortical networks encode natural sensory statistics via sequence filtering. *Neuron*, 114(8), 1489.

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

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.

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

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

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.

Abad-Perez P, et al. (2025) Evidence of spatial periodic firing in the subiculum of mice. *Frontiers in neural circuits*, 19, 1648844.

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

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

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

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

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

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

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