

Resource Summary Report

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UltraMegaSort 2000

RRID:SCR_015857

Type: Tool

Proper Citation

UltraMegaSort 2000 (RRID:SCR_015857)

Resource Information

URL: <https://neurophysics.ucsd.edu/software.php>

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Description: Matlab-based routines for the detection and clustering of putative single units from a multi-unit time series, along with quality metrics. This software was developed by the David Kleinfeld Laboratory at UC San Diego.

Synonyms: UltraMegaSort

Resource Type: algorithm resource, software resource

Defining Citation: [PMID:21677152](#)

Keywords: matlab, detection, clustering, putative single unit, multi-unit time series, metric data

Funding: NINDS FNS054393A;
NINDS NS051177;
US-Israeli Binational Science Foundation 2007121

Availability: Free, Available for download

Resource Name: UltraMegaSort 2000

Resource ID: SCR_015857

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260905T133300+0000

Ratings and Alerts

No rating or validation information has been found for UltraMegaSort 2000.

No alerts have been found for UltraMegaSort 2000.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Hendricks WD, et al. (2026) Feature-tuned synaptic inputs to somatostatin interneurons drive context-dependent processing. *Neuron*, 114(7), 1257.

Basha D, et al. (2025) The reuniens nucleus of the thalamus facilitates hippocampo-cortical dialogue during sleep. *eLife*, 12.

Reinhold K, et al. (2025) Striatum supports fast learning but not memory recall. *Nature*, 643(8071), 458.

Chiang CC, et al. (2025) Cathodal weak direct current decreases epileptic excitability with reduced neuronal activity and enhanced delta oscillations. *The Journal of physiology*, 603(9), 2763.

Paraouty N, et al. (2023) Sensory cortex plasticity supports auditory social learning. *Nature communications*, 14(1), 5828.

Veit J, et al. (2023) Cortical VIP neurons locally control the gain but globally control the coherence of gamma band rhythms. *Neuron*, 111(3), 405.

Hung YC, et al. (2023) Loss of oxytocin receptors in hilar mossy cells impairs social discrimination. *Neurobiology of disease*, 187, 106311.

Ji X, et al. (2021) Brain microvasculature has a common topology with local differences in geometry that match metabolic load. *Neuron*, 109(7), 1168.

Antoine MW, et al. (2019) Increased Excitation-Inhibition Ratio Stabilizes Synapse and Circuit Excitability in Four Autism Mouse Models. *Neuron*, 101(4), 648.

Yao JD, et al. (2018) Developmental deprivation-induced perceptual and cortical processing deficits in awake-behaving animals. *eLife*, 7.

Isett BR, et al. (2018) Slip-Based Coding of Local Shape and Texture in Mouse S1. *Neuron*, 97(2), 418.

Mateo C, et al. (2017) Entrainment of Arteriole Vasomotor Fluctuations by Neural Activity Is a Basis of Blood-Oxygenation-Level-Dependent "Resting-State" Connectivity. *Neuron*,

96(4), 936.

Cronin T, et al. (2014) Efficient transduction and optogenetic stimulation of retinal bipolar cells by a synthetic adeno-associated virus capsid and promoter. *EMBO molecular medicine*, 6(9), 1175.