Resource Summary Report

Generated by NIF on Apr 17, 2025

Suite2P

RRID:SCR_016434
Type: Tool

Proper Citation

Suite2P (RRID:SCR_016434)

Resource Information

URL: https://github.com/cortex-lab/Suite2P

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Description: Software package for processing two-photon recordings. Available together with a graphical user interface that allows manual curation of the results. Used in two-photon microscopy for the analysis of data from two-photon imaging. Registers raw movies, detects active cells, extracts their calcium traces and infers their spike times.

Resource Type: software resource, data analysis software, software application, image processing software, data processing software, software toolkit

Keywords: two, photon, microscopy, processing, image, data, record

Funding:

Availability: Free, Available for download, Freely available

Resource Name: Suite2P

Resource ID: SCR_016434

License: GNU General Public License, GUI

Record Creation Time: 20220129T080330+0000

Record Last Update: 20250417T065547+0000

Ratings and Alerts

No rating or validation information has been found for Suite2P.

No alerts have been found for Suite2P.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 59 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Kim JH, et al. (2025) A combinatorial neural code for long-term motor memory. Nature, 637(8046), 663.

Mishra W, et al. (2024) Activation of M1 cholinergic receptors in mouse somatosensory cortex enhances information processing and detection behaviour. Communications biology, 7(1), 3.

Huang Y, et al. (2024) Interactions between excitatory neurons and parvalbumin interneurons in V1 underlie neural mechanisms of amblyopia and visual stimulation treatment. Communications biology, 7(1), 1564.

Gauld OM, et al. (2024) A latent pool of neurons silenced by sensory-evoked inhibition can be recruited to enhance perception. Neuron, 112(14), 2386.

Conway M, et al. (2024) Perceptual constancy for an odor is acquired through changes in primary sensory neurons. Science advances, 10(50), eado9205.

Zada D, et al. (2024) Development of neural circuits for social motion perception in schooling fish. Current biology : CB, 34(15), 3380.

Harmon TC, et al. (2024) Vocalization modulates the mouse auditory cortex even in the absence of hearing. Cell reports, 43(8), 114611.

Marriott BA, et al. (2024) Brain-state-dependent constraints on claustrocortical communication and function. Cell reports, 43(1), 113620.

Mòdol L, et al. (2024) Somatostatin interneurons control the timing of developmental desynchronization in cortical networks. Neuron, 112(12), 2015.

Pierré A, et al. (2024) A Perspective on Neuroscience Data Standardization with Neurodata Without Borders. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(38).

Tang MF, et al. (2023) Expectation violations enhance neuronal encoding of sensory information in mouse primary visual cortex. Nature communications, 14(1), 1196.

Kline AM, et al. (2023) Distinct nonlinear spectrotemporal integration in primary and secondary auditory cortices. bioRxiv : the preprint server for biology.

Makino H, et al. (2023) Arithmetic value representation for hierarchical behavior composition. Nature neuroscience, 26(1), 140.

Kline AM, et al. (2023) Distinct nonlinear spectrotemporal integration in primary and secondary auditory cortices. Scientific reports, 13(1), 7658.

Huang L, et al. (2023) P2X7 purinergic receptor modulates dentate gyrus excitatory neurotransmission and alleviates schizophrenia-like symptoms in mouse. iScience, 26(9), 107560.

Ottenheimer DJ, et al. (2023) A stable, distributed code for cue value in mouse cortex during reward learning. eLife, 12.

Niraula S, et al. (2023) Repeated passive visual experience modulates spontaneous and novelty-evoked neural activity. bioRxiv : the preprint server for biology.

Niraula S, et al. (2023) Repeated passive visual experience modulates spontaneous and non-familiar stimuli-evoked neural activity. Scientific reports, 13(1), 20907.

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.

Bounds HA, et al. (2023) All-optical recreation of naturalistic neural activity with a multifunctional transgenic reporter mouse. Cell reports, 42(8), 112909.