Resource Summary Report

Generated by dkNET on May 22, 2025

Allen Software Development Kit

RRID:SCR_018183
Type: Tool

Proper Citation

Allen Software Development Kit (RRID:SCR_018183)

Resource Information

URL: https://github.com/AllenInstitute/AllenSDK

Proper Citation: Allen Software Development Kit (RRID:SCR_018183)

Description: Software tool as code for processing and analyzing data in Allen Brain Atlas. Source code for reading and processing Allen Brain Atlas data. Allen SDK focuses on Allen Brain Observatory, Cell Types Database, and Mouse Brain Connectivity Atlas.

Abbreviations: AllenSDK

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

Keywords: Data analysis, data processing, Allen Brain Atlas, data, brain

Funding:

Availability: Free, Freely available

Resource Name: Allen Software Development Kit

Resource ID: SCR_018183

Alternate IDs: SCR_018192

Alternate URLs: https://allensdk.readthedocs.io/en/latest/

License: Allen Institute Software License

Record Creation Time: 20220129T080339+0000

Record Last Update: 20250519T204021+0000

Ratings and Alerts

No rating or validation information has been found for Allen Software Development Kit.

No alerts have been found for Allen Software Development Kit.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Bernaerts Y, et al. (2025) Combined statistical-biophysical modeling links ion channel genes to physiology of cortical neuron types. bioRxiv : the preprint server for biology.

Vafaii H, et al. (2024) Multimodal measures of spontaneous brain activity reveal both common and divergent patterns of cortical functional organization. Nature communications, 15(1), 229.

Gillon CJ, et al. (2024) Responses to Pattern-Violating Visual Stimuli Evolve Differently Over Days in Somata and Distal Apical Dendrites. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(5).

Timonidis N, et al. (2024) Analyzing Thalamocortical Tract-Tracing Experiments in a Common Reference Space. Neuroinformatics, 22(1), 23.

Ratliff JM, et al. (2024) Neocortical long-range inhibition promotes cortical synchrony and sleep. bioRxiv : the preprint server for biology.

Ophir O, et al. (2024) Classifying Neuronal Cell Types Based on Shared Electrophysiological Information from Humans and Mice. Neuroinformatics, 22(4), 473.

Ruffini N, et al. (2024) ViNe-Seg: deep-learning-assisted segmentation of visible neurons and subsequent analysis embedded in a graphical user interface. Bioinformatics (Oxford, England), 40(4).

Farrell JS, et al. (2024) Neural and behavioural state switching during hippocampal dentate spikes. Nature.

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).

Richman EB, et al. (2023) Neural landscape diffusion resolves conflicts between needs across time. Nature, 623(7987), 571.

Roussel Y, et al. (2023) Mapping of morpho-electric features to molecular identity of cortical inhibitory neurons. PLoS computational biology, 19(1), e1010058.

Sorensen SA, et al. (2023) Connecting single-cell transcriptomes to projectomes in mouse visual cortex. bioRxiv : the preprint server for biology.

Gillon CJ, et al. (2023) Responses of pyramidal cell somata and apical dendrites in mouse visual cortex over multiple days. Scientific data, 10(1), 287.

de Vries SEJ, et al. (2023) Sharing neurophysiology data from the Allen Brain Observatory. eLife, 12.

Nayebi A, et al. (2023) Mouse visual cortex as a limited resource system that self-learns an ecologically-general representation. PLoS computational biology, 19(10), e1011506.

Raut RV, et al. (2023) Arousal as a universal embedding for spatiotemporal brain dynamics. bioRxiv : the preprint server for biology.

Mayner WGP, et al. (2022) Measuring Stimulus-Evoked Neurophysiological Differentiation in Distinct Populations of Neurons in Mouse Visual Cortex. eNeuro, 9(1).

Jia X, et al. (2022) Multi-regional module-based signal transmission in mouse visual cortex. Neuron, 110(9), 1585.

Huntenburg JM, et al. (2021) Gradients of functional connectivity in the mouse cortex reflect neocortical evolution. NeuroImage, 225, 117528.

Whitesell JD, et al. (2021) Regional, Layer, and Cell-Type-Specific Connectivity of the Mouse Default Mode Network. Neuron, 109(3), 545.