Resource Summary Report

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

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

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: 20260905T132832+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 35 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Backhaus H, et al. (2026) A Translational Neural Network Mechanism of Resilience: Top-Down Control and Plasticity of the Visual Cortex Relates to Resilient Outcome and Performance. Research (Washington, D.C.), 9, 1215.

Ben-Shalom R, et al. (2026) Accurately fitting biophysical neuron models to experimental voltage data enabled by meta-learning. Research square.

Harris B, et al. (2026) Nested spatiotemporal theta-gamma waves organize hierarchical processing across the mouse visual cortex. Nature communications, 17(1).

An Y, et al. (2026) Sex-dependent cognitive and behavioral outcomes induced by repetitive cortical spreading depression in mice. The journal of headache and pain, 27(1).

Kauvar I, et al. (2025) Conserved brain-wide emergence of emotional response from sensory experience in humans and mice. Science (New York, N.Y.), 388(6750), eadt3971.

Ma Z, et al. (2025) Induction of more severe central sensitization in a medication overuse headache model mice through active ingestion of rizatriptan. The journal of headache and pain, 26(1), 123.

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.

Bernaerts Y, et al. (2025) Combined statistical-biophysical modeling links ion channel genes to physiology of cortical neuron types. Patterns (New York, N.Y.), 6(10), 101323.

Raut RV, et al. (2025) Arousal as a universal embedding for spatiotemporal brain dynamics. Nature, 647(8089), 454.

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.

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

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

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).

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

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).

Pierr?? 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.