

# Resource Summary Report

Generated by [dkNET](#) on Aug 26, 2026

## Calcium Imaging data Analysis

RRID:SCR\_021533

Type: Tool

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### Proper Citation

Calcium Imaging data Analysis (RRID:SCR\_021533)

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### Resource Information

**URL:** <https://github.com/flatironinstitute/CalmAn>

**Proper Citation:** Calcium Imaging data Analysis (RRID:SCR\_021533)

**Description:** Open source software tool for scalable calcium imaging data analysis. Used for large scale calcium imaging analysis, including movie handling, motion correction, source extraction, spike deconvolution and result visualization.

**Abbreviations:** CalmAn

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

**Defining Citation:** [DOI:10.7554/elifesciences.38173](https://doi.org/10.7554/elifesciences.38173)

**Keywords:** calcium imaging analysis, movie handling, motion correction, source extraction, spike deconvolution, result visualization, OpenBehavior

**Availability:** Free, Available for download, Freely Available

**Resource Name:** Calcium Imaging data Analysis

**Resource ID:** SCR\_021533

**Alternate URLs:** <https://edspace.american.edu/openbehavior/project/caiman/>

**License:** GNU General Public License

**Record Creation Time:** 20220129T080356+0000

**Record Last Update:** 20260821T194159+0000

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### Ratings and Alerts

No rating or validation information has been found for Calcium Imaging data Analysis.

No alerts have been found for Calcium Imaging data Analysis.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 44 mentions in open access literature.

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

El-Kalliny MM, et al. (2026) Accumbal calcium-permeable AMPA receptors orchestrate neuronal ensembles underlying social attachment. Nature communications, 17(1), 783.

Oesch LT, et al. (2026) Anterior cingulate neurons combine outcome monitoring of past decisions with ongoing movement signals. Nature communications, 17(1).

Guzman AR, et al. (2026) Protocol for characterization of spatiotemporal network dynamics in cortical and hippocampal assembloids. STAR protocols, 7(2), 104463.

Aparicio F, et al. (2026) Conserved role of primary motor cortex in the control of prehension in mice and macaques. Cell reports, 45(6), 117419.

Palacio-Manzano M, et al. (2026) Proprioceptive cortical neurons implement optimal state estimation. Current biology : CB, 36(14), 3623.

Blot FGC, et al. (2026) 2P-FENDO-II: A fiber bundle microscope for all-optical, large field-of-view brain studies in freely moving mice. Cell reports methods, 6(2), 101305.

Huang TN, et al. (2025) Low-dose mixtures of dietary nutrients ameliorate behavioral deficits in multiple mouse models of autism. PLoS biology, 23(12), e3003231.

Zhu MY, et al. (2025) A Neural Circuit For Bergamot Essential Oil-Induced Anxiolytic Effects. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(1), e2406766.

Velez-Angel N, et al. (2025) Optogenetic interrogation of the zebrafish lateral line reveals brain-wide neural circuits involved in pattern separation. iScience, 28(12), 114192.

Oesch LT, et al. (2025) Anterior cingulate cortex mixes retrospective cognitive signals and ongoing movement signatures during decision-making. bioRxiv : the preprint server for biology.

Hatakeyama A, et al. (2025) Protocol for wide-field brainstem imaging largely preserving the overlying cerebellum. STAR protocols, 6(4), 104258.

Oesch LT, et al. (2025) Anterior cingulate cortex mixes retrospective cognitive signals and ongoing movement signatures during decision-making. Research square.

Ogg MC, et al. (2025) Locus coeruleus norepinephrine neurons facilitate orbitofrontal cortex remapping and behavioral flexibility. *Cell reports*, 44(12), 116687.

Lo H, et al. (2025) Feeding-induced olfactory cortex suppression reduces satiation. *Neuron*, 113(17), 2856.

Shymkiv Y, et al. (2025) Slow cortical dynamics generate context processing and novelty detection. *Neuron*, 113(6), 847.

Kohn NK, et al. (2025) Dendritic architecture enables de novo computation of salient motion in the superior colliculus. *Current biology : CB*, 35(16), 3799.

Baker CM, et al. (2024) A Semi-supervised Pipeline for Accurate Neuron Segmentation with Fewer Ground Truth Labels. *eNeuro*, 11(2).

Zhao P, et al. (2024) MiniXL: An open-source, large field-of-view epifluorescence miniature microscope for mice capable of single-cell resolution and multi-brain region imaging. *bioRxiv : the preprint server for biology*.

Benezra SE, et al. (2024) Learning enhances behaviorally relevant representations in apical dendrites. *eLife*, 13.

Bao Y, et al. (2024) Accurate neuron segmentation method for one-photon calcium imaging videos combining convolutional neural networks and clustering. *Communications biology*, 7(1), 970.