

Resource Summary Report

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Minian

RRID:SCR_022601

Type: Tool

Proper Citation

Minian (RRID:SCR_022601)

Resource Information

URL: <https://github.com/denisecailab/minian>

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Description: Software miniscope analysis pipeline that requires low memory and computational demand so it can be run without specialized hardware. Offers interactive visualization that allows users to see how parameters in each step of pipeline affect output.

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

Defining Citation: [PMID:35642786](#)

Keywords: Miniscope, analysis pipeline, calcium imaging, mouse, Visualization, OpenBehavior

Funding: NIA F32AG067640;
NIBIB R01EB028166;
NIDA R21 DA049568;
NIMH DP2MH122399;
NIMH R01MH120162;
NINDS R01 NS116357;
NINDS R03 NS111493;
NINDS U01NS094286;
NSF 1700408;
NSF 1926800;
NSF 2046583

Availability: Free, Available for download, Freely available

Resource Name: Minian

Resource ID: SCR_022601

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

License: GNU GPLv3

Record Creation Time: 20220729T050144+0000

Record Last Update: 20260821T194237+0000

Ratings and Alerts

No rating or validation information has been found for Minian.

No alerts have been found for Minian.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Erofeev A, et al. (2025) Disrupted calcium dynamics and electrophysiological activity in the stratum pyramidale and hippocampal alveus during fear conditioning in the 5xFAD model of Alzheimer's disease. *Frontiers in aging neuroscience*, 17, 1550673.

Fallon IP, et al. (2025) Striatal Pathways for Action Counting and Steering. *bioRxiv : the preprint server for biology*.

Dong HW, et al. (2025) Neural Networks of the Mouse Primary Visceromotor Cortex. *Research square*.

Jameson KG, et al. (2025) Select microbial metabolites in the small intestinal lumen regulates vagal activity via receptor-mediated signaling. *iScience*, 28(2), 111699.

Dong Z, et al. (2025) Simultaneous two-color imaging with a dual-channel miniscope in freely behaving mice. *Science advances*, 11(27), eadr6470.

Br??cier A, et al. (2025) Layer 1 NDNF interneurons form distinct subpopulations with opposite activation patterns during sleep in freely behaving mice. *Proceedings of the National Academy of Sciences of the United States of America*, 122(33), e2503139122.