

# Resource Summary Report

Generated by [dkNET](#) on Apr 18, 2025

## Microns Explorer

RRID:SCR\_021678

Type: Tool

### Proper Citation

Microns Explorer (RRID:SCR\_021678)

### Resource Information

**URL:** <https://www.microns-explorer.org/>

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**Description:** Portal to release connectivity and functional imaging data collected by consortium of laboratories led by groups at Allen Institute for Brain Science, Princeton University, and Baylor College of Medicine, with support from broad array of teams, coordinated and funded by IARPA MICrONS program. Data include large scale electron microscopy based reconstructions of cortical circuitry from mouse visual cortex, with corresponding functional imaging data from those same neurons.

**Synonyms:** MICrONS Explorer

**Resource Type:** portal, topical portal, data or information resource

**Keywords:** Connectome, mouse, cortex, electron microscopy, functional imaging data, cortical circuitry reconstruction, neuron

**Funding:** IARPA MICrONS

**Availability:** Free, Freely available

**Resource Name:** Microns Explorer

**Resource ID:** SCR\_021678

**License:** Creative Commons Attribution 4.0 International Public Licence

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

**Record Last Update:** 20250417T065711+0000

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## Ratings and Alerts

No rating or validation information has been found for Microns Explorer.

No alerts have been found for Microns Explorer.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Smets NG, et al. (2024) Perivascular spaces around arteries exceed perivenous spaces in the mouse brain. *Scientific reports*, 14(1), 17655.

Falahati H, et al. (2024) Ectopic Reconstitution of a Spine-Apparatus Like Structure Provides Insight into Mechanisms Underlying Its Formation. *bioRxiv : the preprint server for biology*.

Lu C, et al. (2024) Diffusion-based deep learning method for augmenting ultrastructural imaging and volume electron microscopy. *Nature communications*, 15(1), 4677.

Wildenberg G, et al. (2023) Isochronic development of cortical synapses in primates and mice. *Nature communications*, 14(1), 8018.

Abdellah M, et al. (2023) Ultraliser: a framework for creating multiscale, high-fidelity and geometrically realistic 3D models for in silico neuroscience. *Briefings in bioinformatics*, 24(1).

Buchanan J, et al. (2022) Oligodendrocyte precursor cells ingest axons in the mouse neocortex. *Proceedings of the National Academy of Sciences of the United States of America*, 119(48), e2202580119.

Turner NL, et al. (2022) Reconstruction of neocortex: Organelles, compartments, cells, circuits, and activity. *Cell*, 185(6), 1082.

Trepka EB, et al. (2022) Functional interactions among neurons within single columns of macaque V1. *eLife*, 11.

Mahalingam G, et al. (2022) A scalable and modular automated pipeline for stitching of large electron microscopy datasets. *eLife*, 11.

Zhuang J, et al. (2021) Laminar distribution and arbor density of two functional classes of

thalamic inputs to primary visual cortex. Cell reports, 37(2), 109826.