

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

MouseLight Neuron Browser

RRID:SCR_016669

Type: Tool

Proper Citation

MouseLight Neuron Browser (RRID:SCR_016669)

Resource Information

URL: <http://ml-neuronbrowser.janelia.org/>

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Description: Interactive web platform for anyone to explore, search, filter and visualize the single neuron reconstructions.

Synonyms: Neuron Browser, NeuronBrowser, MouseLight Neuron Browser

Resource Type: software resource, web application

Keywords: explore, search, filter, visualize, single, neuron, reconstruction, mouse, brain

Availability: Free, Freely available, Tutorial available, Acknowledgement required

Resource Name: MouseLight Neuron Browser

Resource ID: SCR_016669

Alternate URLs: <http://mouselight.janelia.org/>

Record Creation Time: 20220129T080331+0000

Record Last Update: 20260731T043005+0000

Ratings and Alerts

No rating or validation information has been found for MouseLight Neuron Browser.

No alerts have been found for MouseLight Neuron Browser.

Data and Source Information

Usage and Citation Metrics

We found 26 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Kinman AI, et al. (2025) Atypical hippocampal excitatory neurons express and govern object memory. Nature communications, 16(1), 1195.

Liu L, et al. (2025) Connectivity of single neurons classifies cell subtypes in mouse brains. Nature methods, 22(4), 861.

Banerjee S, et al. (2025) Skeletonization of neuronal processes using Discrete Morse techniques from computational topology. ArXiv.

Wang Y, et al. (2025) Integrated Classification of Cortical Cells and Quantitative Projectomic Mapping Unveil Organizational Principles of Brain-Wide Connectomes at Single Cell Level. bioRxiv : the preprint server for biology.

Banerjee S, et al. (2025) Skeletonization of neuronal processes using Discrete Morse techniques from computational topology. bioRxiv : the preprint server for biology.

Wheeler DW, et al. (2025) A novel method for clustering cellular data to improve classification. Neural regeneration research, 20(9), 2697.

Banerjee S, et al. (2025) Skeletonization of neuronal processes using Discrete Morse techniques from computational topology. Research square.

B??sz E, et al. (2025) A cortico-subcortical loop for motor control via the pontine reticular formation. Cell reports, 44(2), 115230.

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

Wheeler DW, et al. (2024) A Novel Method for Clustering Cellular Data to Improve Classification. ArXiv.

Wheeler DW, et al. (2024) Unsupervised classification of brain-wide axons reveals the presubiculum neuronal projection blueprint. Nature communications, 15(1), 1555.

Athey TL, et al. (2024) Preserving Derivative Information while Transforming Neuronal Curves. Neuroinformatics, 22(1), 63.

Yang W, et al. (2023) Structural and functional map for forelimb movement phases between cortex and medulla. Cell, 186(1), 162.

Zhu J, et al. (2023) Activity map of a cortico-cerebellar loop underlying motor planning. Nature neuroscience, 26(11), 1916.

Radzicki D, et al. (2023) Morphological and molecular markers of mouse area CA2 along the proximodistal and dorsoventral hippocampal axes. *Hippocampus*, 33(3), 133.

Liang Z, et al. (2023) Using mesoscopic tract-tracing data to guide the estimation of fiber orientation distributions in the mouse brain from diffusion MRI. *NeuroImage*, 270, 119999.

Iavarone E, et al. (2023) Thalamic control of sensory processing and spindles in a biophysical somatosensory thalamoreticular circuit model of wakefulness and sleep. *Cell reports*, 42(3), 112200.

Im S, et al. (2022) Corticocortical innervation subtypes of layer 5 intratelencephalic cells in the murine secondary motor cortex. *Cerebral cortex (New York, N.Y. : 1991)*, 33(1), 50.

Gong R, et al. (2020) Hindbrain Double-Negative Feedback Mediates Palatability-Guided Food and Water Consumption. *Cell*, 182(6), 1589.

Liu Y, et al. (2020) Viral vectors for neuronal cell type-specific visualization and manipulations. *Current opinion in neurobiology*, 63, 67.