

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

University of North Carolina at Chapel Hill School of Medicine Neuroscience Microscopy Core Facility

RRID:SCR_019060

Type: Tool

Proper Citation

University of North Carolina at Chapel Hill School of Medicine Neuroscience Microscopy Core Facility (RRID:SCR_019060)

Resource Information

URL: <https://www.med.unc.edu/neuroscience/core-facilities/neuro-microscopy/>

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Description: Microscopy Core for high resolution imaging and aims to make this technology accessible to neuroscientists and other scientific researchers. Provides advanced systems for cellular and molecular imaging of in vitro and in vivo samples, implements new imaging technologies, particularly related to real time and tissue clearing based imaging of neurodevelopment and neural functions, offers training, consultation, data analysis, image processing, and centralized technical expertise.

Abbreviations: NMC

Synonyms: UNC Neuroscience Microscopy Core, University of North Carolina at Chapel Hill UNC Neuroscience Microscopy Core, UNC School of Medicine Neuroscience Microscopy Core Facility

Resource Type: core facility, access service resource, service resource

Keywords: USEdit, microscopy, high resolution imaging, neuroscience microscopy, cellular imaging, molecular imaging, in vitro imaging, in vivo imaging, neurodevelopment, neural function, data analysis, image processing, ABRF, ABRF

Funding: NINDS P30 NS045892;
NICHD U54 HD079124

Availability: Open

Resource Name: University of North Carolina at Chapel Hill School of Medicine Neuroscience Microscopy Core Facility

Resource ID: SCR_019060

Alternate IDs: ABRF_1052

Alternate URLs: <https://coremarketplace.org/?FacilityID=1052>

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260808T190655+0000

Ratings and Alerts

No rating or validation information has been found for University of North Carolina at Chapel Hill School of Medicine Neuroscience Microscopy Core Facility.

No alerts have been found for University of North Carolina at Chapel Hill School of Medicine Neuroscience Microscopy Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 70 mentions in open access literature.

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

Krzeski JC, et al. (2026) UBE3A isoform-selective and non-selective contributions to Angelman syndrome phenotypes. *Molecular psychiatry*, 31(6), 3284.

Mealer RG, et al. (2026) Disrupted O-GalNAc glycosylation as a mechanism and biomarker of SLC35A2-associated epilepsy. *bioRxiv : the preprint server for biology*.

Dedloff MR, et al. (2026) Interferon lambda signaling to maternal dendritic cells protects against congenital Zika virus infection. *bioRxiv : the preprint server for biology*.

Maue KM, et al. (2026) Injectable thermo-responsive hydrogel scaffold for enhanced delivery of second-generation induced neural stem cells for treatment of glioblastoma. *Research square*.

Marinello WP, et al. (2026) Perfluorooctanoic acid (PFOA) induces lipid accumulation, oxidative stress, and reduced neurogenesis in primary human neuronal progenitor cells. *Frontiers in toxicology*, 8, 1814052.

Eaker AR, et al. (2026) Astrocyte-Derived PTPRZ1 Regulates Excitatory Synapse Density in the Mouse Cortex. *eNeuro*, 13(4).

Thompson K, et al. (2026) Making the invisible visible: A global examination of careers and recognition for Imaging Scientists in core facilities. *Journal of microscopy*, 302(3), 274.

Narasipura EA, et al. (2026) CORE: Cholesterol Altered Lipid Nanoparticles for Splenic Expression of mRNA Payloads. *Advanced healthcare materials*, 15(19), e05862.

Glass MR, et al. (2026) Human cortical organoids recapitulate inter-individual variability in infant brain-growth trajectories. *Cell stem cell*, 33(1), 142.

Reis Y, et al. (2026) People-centred funding as a catalyst for sustainable imaging infrastructure. *Journal of microscopy*, 302(3), 295.

Maue KM, et al. (2026) Injectable thermoresponsive hydrogel scaffold for enhanced delivery of next-generation induced neural stem cells for treatment of glioblastoma. *Drug delivery and translational research*.

Eaker AR, et al. (2025) Astrocyte-derived PTPRZ1 regulates astrocyte morphology and excitatory synaptogenesis. *bioRxiv : the preprint server for biology*.

Park J, et al. (2025) Single nucleus RNA sequencing of the cerebral cortex from genetically diverse inbred mouse strains reveals differences in pericyte and endothelial cell composition. *PloS one*, 20(8), e0323827.

Garcia MM, et al. (2025) Noncanonical short-latency auditory pathway directly activates deep cortical layers. *Nature communications*, 16(1), 5911.

Curtis BN, et al. (2025) Lipid packing and local geometry influence septin curvature sensing. *bioRxiv : the preprint server for biology*.

Higgs MG, et al. (2025) Flagellar motility and the mucus environment influence aggregation-mediated antibiotic tolerance of *Pseudomonas aeruginosa* in chronic lung infection. *mBio*, 16(6), e0083125.

Lai D, et al. (2025) SLC35A2 loss-of-function variants affect glycomic signatures, neuronal fate and network dynamics. *Brain : a journal of neurology*, 148(12), 4259.

Garcia MM, et al. (2025) Noncanonical Short-Latency Auditory Pathway Directly Activates Deep Cortical Layers. *bioRxiv : the preprint server for biology*.

Edwards RJ, et al. (2025) Fusiform Cells in the Dorsal Cochlear Nucleus Change Intrinsic Electrophysiological Properties and Morphologically Remodel Their Basal Dendrites with Age. *bioRxiv : the preprint server for biology*.

Clissold KA, et al. (2025) How do you measure the success and impact of a core facility? *BioTechniques*, 77(7-8), 263.