Resource Summary Report

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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: service resource, access service resource, core facility

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: 20250423T061058+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 37 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

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

Narasipura EA, et al. (2025) A Chemoinformatic-Guided Synthesis of a Spleen-Expressing mRNA Lipid Nanoparticle Platform. Bioconjugate chemistry, 36(1), 54.

Lai D, et al. (2024) SLC35A2 loss of function variants affect glycomic signatures, neuronal fate, and network dynamics. bioRxiv : the preprint server for biology.

Chowdhury NN, et al. (2024) Plasminogen deficiency suppresses pancreatic ductal adenocarcinoma disease progression. Molecular oncology, 18(1), 113.

Glass MR, et al. (2024) Cross-site reproducibility of human cortical organoids reveals

consistent cell type composition and architecture. Stem cell reports, 19(9), 1351.

Mehl BP, et al. (2024) Live-cell biosensors based on the fluorescence lifetime of environment-sensing dyes. Cell reports methods, 4(3), 100734.

Vihma H, et al. (2024) Ube3a unsilencer for the potential treatment of Angelman syndrome. Nature communications, 15(1), 5558.

Williams BN, et al. (2024) Heterogeneity in the progression of retinal pathologies in mice harboring patient mimicking Impg2 mutations. Human molecular genetics, 33(5), 448.

Higgs MG, et al. (2024) Flagellar motility and the mucus environment influence aggregation mediated antibiotic tolerance of Pseudomonas aeruginosa in chronic lung infection. bioRxiv : the preprint server for biology.

Jasiewicz NE, et al. (2024) In situ-crosslinked Zippersomes enhance cardiac repair by increasing accumulation and retention. Bioengineering & translational medicine, 9(6), e10697.

Chen ZK, et al. (2024) Septo-dentate gyrus cholinergic circuits modulate function and morphogenesis of adult neural stem cells through granule cell intermediaries. Proceedings of the National Academy of Sciences of the United States of America, 121(40), e2405117121.

Roque JA, et al. (2024) Enhancement of subunit vaccine delivery with zinc-carnosine coordination polymer through the addition of mannan. International journal of pharmaceutics, 656, 124076.

Ma Y, et al. (2024) Polyphenolic Nanoparticle Platforms (PARCELs) for In Vitro and In Vivo mRNA Delivery. Nano letters, 24(20), 6092.

Bonacquisti EE, et al. (2024) Fluorogenic RNA-based biomaterials for imaging and tracking the cargo of extracellular vesicles. Journal of controlled release : official journal of the Controlled Release Society, 374, 349.

Jasiewicz NE, et al. (2024) In Situ-Crosslinked Zippersomes Enhance Cardiac Repair by Increasing Accumulation and Retention. bioRxiv : the preprint server for biology.

Chéry SL, et al. (2024) Neurosteroid [3?,5?]3-hydroxypregnan-20-one inhibition of chemokine monocyte chemoattractant protein-1 in alcohol-preferring rat brain neurons, microglia, and astroglia. Alcohol, clinical & experimental research.

Necarsulmer JC, et al. (2023) RNA-binding deficient TDP-43 drives cognitive decline in a mouse model of TDP-43 proteinopathy. eLife, 12.

Chiu YT, et al. (2023) A suite of engineered mice for interrogating psychedelic drug actions. bioRxiv : the preprint server for biology.

Xing L, et al. (2023) Autism-linked UBE3A gain-of-function mutation causes interneuron and behavioral phenotypes when inherited maternally or paternally in mice. Cell reports, 42(7),

112706.

Lowrey LC, et al. (2023) An IS-mediated, RecA-dependent, bet-hedging strategy in Burkholderia thailandensis. eLife, 12.