

Resource Summary Report

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University of Virginia School of Medicine Molecular Electron Microscopy Core Facility

RRID:SCR_019031

Type: Tool

Proper Citation

University of Virginia School of Medicine Molecular Electron Microscopy Core Facility
(RRID:SCR_019031)

Resource Information

URL: <https://med.virginia.edu/molecular-electron-microscopy-core/>

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Description: Facility dedicated to high resolution electron cryomicroscopy and electron cryotomography. It houses three electron microscopes, 120kV Spirit, 200kV F20, and 300kV Titan Krios. These microscopes are available to researchers either for direct use, or aided by MEMC personnel, to collect data aimed at high resolution structural biology projects.

Abbreviations: MEMC

Synonyms: University of Virginia Molecular Electron Microscopy Core, UVA-Molecular Electron Microscopy Core, Molecular Electron Microscopy Core

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

Keywords: USEdit, electron microscopy, electron cryotomography, microscope, data collection, ABRF

Funding: NCRR G20 RR31199

Resource Name: University of Virginia School of Medicine Molecular Electron Microscopy Core Facility

Resource ID: SCR_019031

Alternate IDs: ABRF_1048

Alternate URLs: <https://coremarketplace.org/?FacilityID=1048>

Record Creation Time: 20220129T080343+0000

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Ratings and Alerts

No rating or validation information has been found for University of Virginia School of Medicine Molecular Electron Microscopy Core Facility.

No alerts have been found for University of Virginia School of Medicine Molecular Electron Microscopy Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 89 mentions in open access literature.

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

Lin LL, et al. (2026) Structural basis and pathological implications of the dimeric OS9-SEL1L-HRD1 ERAD Core Complex. Nature communications, 17(1).

Maldosevic E, et al. (2026) Mechanism of ribosome stalling by the AMD1 C-terminal tail arrest peptide. Science advances, 12(13), eaec5067.

Pentz WH, et al. (2026) Delivery of Monomethyl Auristatin E Using Ionizable Lipid Nanoparticles for B?Cell Acute Lymphoblastic Leukemia Treatment. ACS omega, 11(22), 32321.

Maldosevic E, et al. (2026) A molecular switch in NAC prevents mitochondrial protein mistargeting by SRP. Nature communications, 17(1).

Yuan S, et al. (2026) Tau oligomerization induces nuclear lamina invagination and chromatin remodeling in Alzheimer's disease. Acta neuropathologica, 151(1).

Singh B, et al. (2026) Extracellular vesicle-derived miRNA-182-5p educates macrophages towards an immunosuppressive phenotype in pancreatic cancer. Signal transduction and targeted therapy, 11(1), 31.

Boesch DJ, et al. (2026) Molecular basis of nick ligation in the nucleosome by DNA Ligase III?. bioRxiv : the preprint server for biology.

Pangeni R, et al. (2026) IVMT-Rx-3 Microemulsion as Low-Dose Metronomic Chemotherapy for Melanoma Metastasis. Cells, 15(13).

Kaffash E, et al. (2026) Fenofibrate microemulsion eyedrops for treating nitrogen mustard induced corneal injury. Journal of controlled release : official journal of the Controlled

Release Society, 391, 114656.

Cramer ER, et al. (2026) Mapping the Structure and Conformational Landscape of the 10-23 DNAzyme. *ACS chemical biology*, 21(6), 1443.

Almunif S, et al. (2025) Engineering the Size of Bicontinuous Nanospheres via Multi-Inlet Vortex Mixing. *Nano letters*, 25(50), 17398.

Rao VG, et al. (2025) Mechanisms of cilia regeneration in *Xenopus* multiciliated epithelium in vivo. *EMBO reports*, 26(8), 2192.

Pangeni R, et al. (2025) New PPAR γ Agonist A190-Loaded Microemulsion for Chemotherapy-Induced Peripheral Neuropathy. *Molecular pharmaceuticals*, 22(3), 1641.

Little M, et al. (2025) Interaction of cardiac leiomodulin with the native cardiac thin filament. *PLoS biology*, 23(1), e3003027.

Kudryashova E, et al. (2025) Actin isoform-specific interactions revealed by *Vibrio* VopV actin-binding repeats. *Proceedings of the National Academy of Sciences of the United States of America*, 122(48), e2523856122.

Montecinos F, et al. (2025) Structure of blood cell-specific tubulin and demonstration of dimer spacing compaction in a single protofilament. *The Journal of biological chemistry*, 301(2), 108132.

Kreutzberger MAB, et al. (2025) A Collagen Triple Helix without the Superhelical Twist. *ACS central science*, 11(2), 331.

Xiang J, et al. (2025) A type IV pili-mediated mutualism between two co-resident temperate archaeal viruses and their host. *Cell reports*, 44(7), 115873.

Tavakoli A, et al. (2025) Hemifusomes and interacting proteolipid nanodroplets mediate multi-vesicular body formation. *Nature communications*, 16(1), 4609.

Li Y, et al. (2025) Understanding DNA-encoded carbon nanotube sorting and sensing via sub-nm-resolution structural determination. *Science advances*, 11(14), eadt9844.