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: service resource, access service resource, core facility

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

Record Last Update: 20260804T043723+0000

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 36 mentions in open access literature.

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

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.

Zdancewicz S, et al. (2025) NAC couples protein synthesis with nascent polypeptide myristoylation on the ribosome. The EMBO journal, 44(22), 6320.

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

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

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

Misra B, et al. (2025) TLR7-Adjuvanted Ionizable Lipid Nanoparticles for mRNA Vaccine Delivery. The AAPS journal, 27(4), 80.

Maldosevic E, et al. (2025) Mechanism of Ribosome Stalling by the AMD1 C-terminal Tail Arrest Peptide. bioRxiv : the preprint server for biology.

Chuah JJY, et al. (2025) Occupancy of the HbYX hydrophobic pocket is sufficient to induce gate opening in the archaeal 20S proteasomes. eLife, 14.

Maldosevic E, et al. (2025) A molecular switch in NAC prevents mitochondrial protein mistargeting by SRP. bioRxiv : the preprint server for biology.

Jung H, et al. (2024) Structural and Biochemical Characterization of the Nucleosome Containing Variants H3.3 and H2A.Z. Epigenomes, 8(2).

Sokolova V, et al. (2024) Structural mechanism of HP1?-dependent transcriptional repression and chromatin compaction. Structure (London, England : 1993), 32(11), 2094.

Adair BD, et al. (2024) Platelet integrin ?IIb?3 plays a key role in a venous thrombogenesis mouse model. Nature communications, 15(1), 8612.

He ZJ, et al. (2024) Bottlebrush Polyethylene Glycol Nanocarriers Translocate across Human Airway Epithelium via Molecular Architecture-Enhanced Endocytosis. ACS nano, 18(27), 17586.

Cochran JD, et al. (2024) Cell cycle specific, differentially tagged ribosomal proteins to measure phase specific transcriptomes from asynchronously cycling cells. Scientific reports, 14(1), 1623.

Zhao XY, et al. (2024) iNOS is necessary for GBP-mediated T. gondii clearance in murine macrophages via vacuole nitration and intravacuolar network collapse. Nature communications, 15(1), 2698.

Chuah JJY, et al. (2024) Occupancy of the HbYX hydrophobic pocket is sufficient to induce gate opening in the archaeal 20S proteasomes. bioRxiv : the preprint server for biology.

Mulligan RJ, et al. (2024) Collapse of late endosomal pH elicits a rapid Rab7 response via the V-ATPase and RILP. Journal of cell science, 137(9).

Niedzialkowska E, et al. (2024) Stabilization of F-actin by Salmonella effector SipA resembles the structural effects of inorganic phosphate and phalloidin. Structure (London, England : 1993).

Niedzialkowska E, et al. (2024) Chromosomal passenger complex condensates generate parallel microtubule bundles in vitro. The Journal of biological chemistry, 300(3), 105669.

Adair BD, et al. (2024) Platelet integrin ?IIb?3 plays a key role in venous thrombogenesis in a mouse model. bioRxiv : the preprint server for biology.