

Resource Summary Report

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University of Chicago Advanced Electron Microscopy Core Facility

RRID:SCR_019198

Type: Tool

Proper Citation

University of Chicago Advanced Electron Microscopy Core Facility (RRID:SCR_019198)

Resource Information

URL: <https://voices.uchicago.edu/advancedem/>

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Description: Offers instruments including Titan Krios with Gatan K3 detector, Aquilos Cryo-DualBeam system, Apreo Volume Scope Serial Blockface SEM, FEI Talos Cryo-EM.

Synonyms: Advanced Electron Microscopy

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

Keywords: USEdit, microscopy services, advanced microscopy, ABRF, ABRF

Resource Name: University of Chicago Advanced Electron Microscopy Core Facility

Resource ID: SCR_019198

Alternate IDs: ABRF_1084

Alternate URLs: <https://coremarketplace.org/?FacilityID=1084>

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260821T194157+0000

Ratings and Alerts

No rating or validation information has been found for University of Chicago Advanced Electron Microscopy Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

Filippova EV, et al. (2026) A universal Fab targeting a conserved U1A-RNA epitope for RNA structure determination by cryo-EM. *Nucleic acids research*, 54(10).

Yamsek M, et al. (2026) Structural basis of regulated N-glycosylation at the secretory translocon. *Nature*, 649(8097), 777.

Krahn AH, et al. (2026) Functional assignment of Golgi-associated vesicle tethers to specific membrane recycling pathways. *bioRxiv : the preprint server for biology*.

Bogdanovi? JV, et al. (2026) Large RNA polymerase II condensates are promoter-centric assemblies associated with early stages of transcription at all expressed genes. *bioRxiv : the preprint server for biology*.

Demchenko EA, et al. (2026) Cryo-electron tomography reveals paracellular claudin-15 pores at the tight junction. *bioRxiv : the preprint server for biology*.

Mousaei Ghasroldasht M, et al. (2026) Enhanced exosomes for fertility protection against chemotherapy-induced ovarian damage. *NPJ Regenerative medicine*.

Zvi U, et al. (2026) Probing Cellular Activity Via Charge-Sensitive Quantum Nanoprobes. *Advanced materials (Deerfield Beach, Fla.)*, 38(14), e05107.

Shin H, et al. (2025) Structural basis of directionality control in large serine integrases. *bioRxiv : the preprint server for biology*.

Zvi U, et al. (2025) Engineering spin coherence in core-shell diamond nanocrystals. *Proceedings of the National Academy of Sciences of the United States of America*, 122(21), e2422542122.

Ramesh A, et al. (2025) Mapping the extracellular molecular architecture of the pAg-signaling complex with ?-Butyrophilin antibodies. *Scientific reports*, 15(1), 12162.

Tjia-Fleck S, et al. (2025) Interactions between membrane-bound streptococcal alpha-enolase and human plasminogen captured through cryogenic-electron microscopy. *Frontiers in molecular biosciences*, 12, 1666748.

Ross P, et al. (2025) Molecular characterization of the archaic HLA-B*73:01 allele reveals presentation of a unique peptidome and skewed engagement by KIR2DL2. *The Journal of*

biological chemistry, 301(9), 110542.

Chan YL, et al. (2025) Mei5-Sae3 stabilizes both active and inactive forms of Dmc1 filaments independently of its impact on ATP hydrolysis. *Nucleic acids research*, 53(20).

Xi B, et al. (2025) Polyelectrolyte complex micelles embedded in hyaluronic acid gels enable local, targeted miR-92a inhibition to accelerate diabetic wound repair. *bioRxiv : the preprint server for biology*.

Contreras GF, et al. (2025) Structural basis of voltage-dependent gating in BK channels. *Nature communications*, 16(1), 5846.

Wai S, et al. (2025) Zwitterionic hydrogel designs for conducting polymers enable bioelectronics with suppressed foreign body responses. *bioRxiv : the preprint server for biology*.

Krahn AH, et al. (2025) COPI-dependent intra-Golgi recycling at an intermediate stage of cisternal maturation. *bioRxiv : the preprint server for biology*.

Ogbu CP, et al. (2025) Biophysical basis of tight junction barrier modulation by a pan-claudin-binding molecule. *PNAS nexus*, 4(6), pgaf189.

Turke MJ, et al. (2025) Lipid-packing defects are sufficient to modulate membrane insertion and the bound state of γ -synuclein. *Proceedings of the National Academy of Sciences of the United States of America*, 122(52), e2419823122.

Laker RC, et al. (2025) GLP-1R/GCGR dual agonism dissipates hepatic steatosis to restore insulin sensitivity and rescue pancreatic β -cell function in obese male mice. *Nature communications*, 16(1), 4714.