

# 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/>

**Proper Citation:** University of Chicago Advanced Electron Microscopy Core Facility (RRID:SCR\_019198)

**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:** 20260905T133419+0000

### Ratings and Alerts

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

No alerts have been found for University of Chicago Advanced Electron Microscopy Core Facility.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 51 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

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  $\gamma$ -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  $\beta$ -cell function in obese male mice. *Nature communications*, 16(1), 4714.