

Resource Summary Report

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Electron Microscopy Public Image Archive

RRID:SCR_019237

Type: Tool

Proper Citation

Electron Microscopy Public Image Archive (RRID:SCR_019237)

Resource Information

URL: <https://www.ebi.ac.uk/pdbe/emdb/empiar/>

Proper Citation: Electron Microscopy Public Image Archive (RRID:SCR_019237)

Description: Public archive for raw electron microscopy image data. Resource for raw 2D electron microscopy images. Used to browse, upload and download raw images to build 3D structure. Provides access to raw data to facilitate methods development and validation. Complements Electron Microscopy Data Bank where 3D volumes are stored, and uses Aspera platform for data transfers.

Abbreviations: EMPIAR

Resource Type: data or information resource, data repository, service resource, storage service resource

Defining Citation: [PMID:27067018](#)

Keywords: CryoEM, cryo electron microscopy, raw electron microscopy images, electron microscopy images, raw images, raw data, image data

Funding: UK Biotechnology and Biological Sciences Research Council

Availability: Free, Freely available

Resource Name: Electron Microscopy Public Image Archive

Resource ID: SCR_019237

Record Creation Time: 20220129T080344+0000

Record Last Update: 20260912T195911+0000

Ratings and Alerts

No rating or validation information has been found for Electron Microscopy Public Image Archive .

No alerts have been found for Electron Microscopy Public Image Archive .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 83 mentions in open access literature.

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

He S, et al. (2026) H pilin cyclisation and pilus biogenesis are promiscuous but electrostatic perturbations impair conjugation efficiency. Nature communications, 17(1).

Donnelly JP, et al. (2026) 3D Visualization and Proteomic Analysis of Human Cardiac Transthyretin Amyloidosis Tissue Reveals Microangiopathy and Capillary Occlusion. bioRxiv : the preprint server for biology.

Poudel B, et al. (2025) CryoFSL: An Annotation-Efficient, Few-Shot Learning Framework for Robust Protein Particle Picking in Cryo-EM Micrographs. bioRxiv : the preprint server for biology.

Padman BS, et al. (2025) AI-directed voxel extraction and volume EM identify intrusions as sites of mitochondrial contact. The Journal of cell biology, 224(10).

Drobiazko A, et al. (2025) Molecular basis of foreign DNA recognition by BREX anti-phage immunity system. Nature communications, 16(1), 1825.

Seddon C, et al. (2025) Cryo-EM structure and evolutionary history of the conjugation surface exclusion protein TraT. Nature communications, 16(1), 659.

Peukes J, et al. (2025) The molecular infrastructure of glutamatergic synapses in the mammalian forebrain. eLife, 13.

Zeinert R, et al. (2024) Magnesium Transporter MgtA revealed as a Dimeric P-type ATPase. bioRxiv : the preprint server for biology.

Hooda Y, et al. (2024) Mechanism of NACHO-mediated assembly of pentameric ligand-gated ion channels. bioRxiv : the preprint server for biology.

Chang YT, et al. (2024) Cytoplasmic ribosomes on mitochondria alter the local membrane environment for protein import. bioRxiv : the preprint server for biology.

Yanase R, et al. (2024) Discovery of essential kinetoplastid-insect adhesion proteins and their function in Leishmania-sand fly interactions. Nature communications, 15(1), 6960.

Wilson CE, et al. (2024) Death in the taste bud: Morphological features of dying taste cells and engulfment by Type I cells. *bioRxiv : the preprint server for biology*.

Clark JJ, et al. (2024) Protective effect and molecular mechanisms of human non-neutralizing cross-reactive spike antibodies elicited by SARS-CoV-2 mRNA vaccination. *Cell reports*, 43(11), 114922.

Dhakal A, et al. (2024) CryoTransformer: a transformer model for picking protein particles from cryo-EM micrographs. *Bioinformatics (Oxford, England)*, 40(3).

Yin Z, et al. (2024) Structural insights into respiratory complex I deficiency and assembly from the mitochondrial disease-related *ndufs4*^{-/-} mouse. *The EMBO journal*, 43(2), 225.

Lin TY, et al. (2024) The molecular basis of tRNA selectivity by human pseudouridine synthase 3. *Molecular cell*, 84(13), 2472.

Usuzaki T, et al. (2024) Predicting EGFR Status After Radical Nephrectomy or Partial Nephrectomy for Renal Cell Carcinoma on CT Using a Self-attention-based Model: Variable Vision Transformer (vViT). *Journal of imaging informatics in medicine*, 37(6), 3057.

Zhang X, et al. (2024) Enhancing pathological complete response prediction in breast cancer: the role of dynamic characterization of DCE-MRI and its association with tumor heterogeneity. *Breast cancer research : BCR*, 26(1), 77.

Cameron CJF, et al. (2024) REliable Picking by Consensus (REPIC): a consensus methodology for harnessing multiple cryo-EM particle pickers. *Communications biology*, 7(1), 1421.

Bakker AT, et al. (2024) Discovery of isoquinoline sulfonamides as allosteric gyrase inhibitors with activity against fluoroquinolone-resistant bacteria. *Nature chemistry*, 16(9), 1462.