Resource Summary Report

Generated by NIF on Apr 25, 2025

Electron Microscopy Data Bank at PDBe (MSD-EBI)

RRID:SCR_006506 Type: Tool

Proper Citation

Electron Microscopy Data Bank at PDBe (MSD-EBI) (RRID:SCR_006506)

Resource Information

URL: http://www.ebi.ac.uk/pdbe/emdb/

Proper Citation: Electron Microscopy Data Bank at PDBe (MSD-EBI) (RRID:SCR_006506)

Description: Repository for electron microscopy density maps of macromolecular complexes and subcellular structures at Protein Data Bank in Europe. Covers techniques, including single-particle analysis, electron tomography, and electron (2D) crystallography.

Abbreviations: EMDB at PDBe

Synonyms: MSD-EBI, Electron Microscopy Data Bank at Protein Data Bank in Europe, Electron Microscopy DataBank, Electron Microscopy Data Bank at PDBe (MSD-EBI), Electron Microscopy Data Bank at PDBe

Resource Type: analysis service resource, data analysis service, data or information resource, storage service resource, production service resource, database, service resource, data repository

Keywords: electron microscopy, density map, macromolecule, complex, subcellular structure, single-particle analysis, electron tomography, electron crystallography, macromolecular complex, structure, protein, protein binding, electron, electron configuration, tomography, microscopy, gold standard

Funding: NIH

Availability: Public

Resource Name: Electron Microscopy Data Bank at PDBe (MSD-EBI)

Resource ID: SCR_006506

Alternate IDs: nlx_149453

Record Creation Time: 20220129T080236+0000

Record Last Update: 20250425T055533+0000

Ratings and Alerts

No rating or validation information has been found for Electron Microscopy Data Bank at PDBe (MSD-EBI).

No alerts have been found for Electron Microscopy Data Bank at PDBe (MSD-EBI).

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 130 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

Zhang F, et al. (2025) Cryo-EM structure and oligomerization of the human planar cell polarity core protein Vangl1. Nature communications, 16(1), 135.

Li X, et al. (2024) Structures and organizations of PSI-AcpPCI supercomplexes from red tidal and coral symbiotic photosynthetic dinoflagellates. Proceedings of the National Academy of Sciences of the United States of America, 121(7), e2315476121.

Wang P, et al. (2024) Molecular principles of the assembly and construction of a carboxysome shell. Science advances, 10(48), eadr4227.

Chi X, et al. (2024) Cryo-EM structures of the human NaS1 and NaDC1 transporters revealed the elevator transport and allosteric regulation mechanism. Science advances, 10(13), eadl3685.

Wang Q, et al. (2024) The architecture of substrate-engaged TOM-TIM23 supercomplex reveals preprotein proximity sites for mitochondrial protein translocation. Cell discovery, 10(1), 19.

Wang P, et al. (2024) Architectures of photosynthetic RC-LH1 supercomplexes from Rhodobacter blasticus. Science advances, 10(41), eadp6678.

Liu B, et al. (2024) Enhanced potency of an IgM-like nanobody targeting conserved epitope in SARS-CoV-2 spike N-terminal domain. Signal transduction and targeted therapy, 9(1), 131.

Li Z, et al. (2024) Dissection of the structure-function relationship of Nav channels. Proceedings of the National Academy of Sciences of the United States of America, 121(9), e2322899121.

Lin H, et al. (2024) C-type inactivation and proton modulation mechanisms of the TASK3 channel. Proceedings of the National Academy of Sciences of the United States of America, 121(17), e2320345121.

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

Bayly-Jones C, et al. (2024) Structure of the human TSC:WIPI3 lysosomal recruitment complex. Science advances, 10(47), eadr5807.

Kikuchi M, et al. (2023) Epigenetic mechanisms to propagate histone acetylation by p300/CBP. Nature communications, 14(1), 4103.

Fäßler F, et al. (2023) ArpC5 isoforms regulate Arp2/3 complex-dependent protrusion through differential Ena/VASP positioning. Science advances, 9(3), eadd6495.

Llauger G, et al. (2023) A Fijivirus Major Viroplasm Protein Shows RNA-Stimulated ATPase Activity by Adopting Pentameric and Hexameric Assemblies of Dimers. mBio, 14(2), e0002323.

Qi CH, et al. (2023) New insights on the photocomplex of Roseiflexus castenholzii revealed from comparisons of native and carotenoid-depleted complexes. The Journal of biological chemistry, 299(8), 105057.

Adair BD, et al. (2023) Cryo-EM structures of full-length integrin ?IIb?3 in native lipids. Nature communications, 14(1), 4168.

McCraw DM, et al. (2023) Designed nanoparticles elicit cross-reactive antibody responses to conserved influenza virus hemagglutinin stem epitopes. PLoS pathogens, 19(8), e1011514.

Leonhardt SA, et al. (2023) Antiviral HIV-1 SERINC restriction factors disrupt virus membrane asymmetry. Nature communications, 14(1), 4368.

Kikuchi A, et al. (2022) Structural basis for activation of DNMT1. Nature communications, 13(1), 7130.

Chen W, et al. (2022) Structural basis for directional chitin biosynthesis. Nature, 610(7931), 402.