Resource Summary Report

Generated by NIF on Apr 29, 2025

Coot

RRID:SCR_014222

Type: Tool

Proper Citation

Coot (RRID:SCR_014222)

Resource Information

URL: http://www2.mrc-lmb.cam.ac.uk/personal/pemsley/coot/

Proper Citation: Coot (RRID:SCR_014222)

Description: Software for macromolecular model building, model completion and validation, and protein modelling using X-ray data. Coot displays maps and models and allows model manipulations such as idealization, rigid-body fitting, ligand search, Ramachandran plots, non-crystallographic symmetry and more. Source code is available.

Abbreviations: COOT

Synonyms: Crystallographic Object-Oriented Toolkit

Resource Type: software toolkit, data or information resource, simulation software, model,

software resource, software application

Defining Citation: PMID:15572765

Keywords: software toolkit, simulation software, model manipulation, protein modeling,

bio.tools

Funding:

Availability: Available for download, Acknowledgement requested

Resource Name: Coot

Resource ID: SCR_014222

Alternate IDs: biotools:coot

Alternate URLs: http://strucbio.biologie.uni-konstanz.de/ccp4wiki/index.php/Coot,

https://bio.tools/coot

License: GPL v3, GLP v2, LGPL v3

Record Creation Time: 20220129T080319+0000

Record Last Update: 20250429T055630+0000

Ratings and Alerts

No rating or validation information has been found for Coot.

No alerts have been found for Coot.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 13250 mentions in open access literature.

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

Bal?kç? E, et al. (2025) Structure of the Nipah virus polymerase complex. The EMBO journal, 44(2), 563.

Tian Y, et al. (2025) Structural insight into Okazaki fragment maturation mediated by PCNA-bound FEN1 and RNaseH2. The EMBO journal, 44(2), 484.

Park SK, et al. (2025) Structural basis for the evolution of a domesticated group II intron-like reverse transcriptase to function in host cell DNA repair. bioRxiv: the preprint server for biology.

Jabbari K, et al. (2025) The Structural, Biophysical, and Antigenic Characterization of the Goose Parvovirus Capsid. Microorganisms, 13(1).

Yazaki S, et al. (2025) Crystal Structures of Antigen-Binding Fragment of Anti-Osteocalcin Antibody KTM219. International journal of molecular sciences, 26(2).

Zhang B, et al. (2025) A High-Resolution Crystallographic Study of Cytochrome c6: Structural Basis for Electron Transfer in Cyanobacterial Photosynthesis. International journal of molecular sciences, 26(2).

Jaiswal R, et al. (2025) Cryo-EM structure of AAV2 Rep68 bound to integration site AAVS1: insights into the mechanism of DNA melting. Nucleic acids research, 53(3).

Syrjanen JL, et al. (2025) Structural insights into mechanisms of zinc scavenging by the Candida albicans zincophore Pra1. bioRxiv: the preprint server for biology.

Petrychenko V, et al. (2025) Structural basis for translational control by the human 48S initiation complex. Nature structural & molecular biology, 32(1), 62.

Feng Z, et al. (2025) Mechanism of activation of contact-dependent growth inhibition tRNase toxin by the amino acid biogenesis factor CysK in the bacterial competition system. Nucleic acids research, 53(1).

Yan H, et al. (2025) The characterization and structural basis of a human broadly binding antibody to HBV core protein. Journal of virology, 99(1), e0169424.

Choi SH, et al. (2025) Crystal structure of ?-carbonic anhydrase from the polyextremophilic bacterium Aeribacillus pallidus. Molecules and cells, 48(1), 100165.

Górniak I, et al. (2025) Structural insights into translocation and tailored synthesis of hyaluronan. Nature structural & molecular biology, 32(1), 161.

Markusson S, et al. (2025) Nanobodies against the myelin enzyme CNPase as tools for structural and functional studies. Journal of neurochemistry, 169(1), e16274.

Wiechert F, et al. (2025) Visualizing the modification landscape of the human 60S ribosomal subunit at close to atomic resolution. Nucleic acids research, 53(1).

O'Brien JH, et al. (2025) Cryo-EM Structure of Recombinantly Expressed hUGDH Unveils a Hidden, Alternative Allosteric Inhibitor. Biochemistry, 64(1), 92.

Kaley NE, et al. (2025) Bioisosteric replacement of pyridoxal-5'-phosphate to pyridoxal-5'-tetrazole targeting Bacillus subtilis GabR. Protein science: a publication of the Protein Society, 34(1), e70014.

Tandhavanant S, et al. (2025) Genetic variation of hemolysin co-regulated protein 1 affects the immunogenicity and pathogenicity of Burkholderia pseudomallei. PLoS neglected tropical diseases, 19(1), e0012758.

Li HZ, et al. (2025) Transport and inhibition of the sphingosine-1-phosphate exporter SPNS2. Nature communications, 16(1), 721.

Awad W, et al. (2025) Cigarette smoke components modulate the MR1-MAIT axis. The Journal of experimental medicine, 222(2).