

Resource Summary Report

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IMOD

RRID:SCR_003297

Type: Tool

Proper Citation

IMOD (RRID:SCR_003297)

Resource Information

URL: <http://bio3d.colorado.edu/imod>

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Description: A free, cross-platform set of image processing, modeling and display programs used for tomographic reconstruction and for 3D reconstruction of EM serial sections and optical sections. The package contains tools for assembling and aligning data within multiple types and sizes of image stacks, viewing 3-D data from any orientation, and modeling and display of the image files. IMOD 4.1.8 Is Now Available for Linux, Windows, and Mac OS X

Abbreviations: IMOD

Synonyms: IMOD - 3D Reconstruction and Analysis

Resource Type: software application, source code, software resource, data processing software, image processing software, image analysis software

Defining Citation: [PMID:27444392](#)

Keywords: electron microscopy, magnetic resonance, tomographic reconstruction, reconstruction, segmentation, 3d volume

Funding: NCRR ;
NIGMS ;
NIBIB

Availability: Free, Available for download, Freely available

Resource Name: IMOD

Resource ID: SCR_003297

Alternate IDs: nif-0000-31686

Alternate URLs: <http://www.nitrc.org/projects/imod>

Record Creation Time: 20220129T080218+0000

Record Last Update: 20260729T044046+0000

Ratings and Alerts

No rating or validation information has been found for IMOD.

No alerts have been found for IMOD.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1585 mentions in open access literature.

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

Hou Z, et al. (2026) In situ chromatin dynamics and HIV-1 nuclear trafficking. bioRxiv : the preprint server for biology.

Medina M, et al. (2026) Surface Morphometrics reveals local membrane thickness variation in organellar subcompartments. The Journal of cell biology, 225(3).

Lovatt C, et al. (2026) Memory engram synapse 3D macromolecular architecture visualized by cryoCLEM-guided cryoET. Structure (London, England : 1993), 34(1), 100.

Müller TG, et al. (2026) Lenacapavir-induced capsid damage uncovers HIV-1 genomes emanating from nuclear speckles. The EMBO journal, 45(2), 449.

Leung MR, et al. (2025) Structural diversity of axonemes across mammalian motile cilia. Nature, 637(8048), 1170.

Chen Y, et al. (2025) Tetrameric PilZ protein stabilizes stator ring in complex flagellar motor and is required for motility in Campylobacter jejuni. Proceedings of the National Academy of Sciences of the United States of America, 122(1), e2412594121.

Adeleke RA, et al. (2025) Replication-incompetent VSV-based vaccine elicits protective responses against SARS-CoV-2 and influenza virus. Science advances, 11(5), eadq4545.

Sun WW, et al. (2025) Cryo-electron tomography pipeline for plasma membranes. Nature communications, 16(1), 855.

Uckelmann M, et al. (2025) Dynamic PRC1-CBX8 stabilizes a porous structure of chromatin condensates. Nature structural & molecular biology, 32(3), 520.

Purnell C, et al. (2025) Training Generalized Segmentation Networks with Real and Synthetic Cryo-ET data. *bioRxiv : the preprint server for biology*.

Chaillet ML, et al. (2025) pytom-match-pick: A tophat-transform constraint for automated classification in template matching. *Journal of structural biology: X*, 11, 100125.

Kable B, et al. (2025) Compromised two-start zigzag chromatin folding in immature mouse retina cells driven by irregularly spaced nucleosomes with short DNA linkers. *Nucleic acids research*, 53(10).

Choy J, et al. (2025) Population-level morphological analysis of paired CO₂- and odor-sensing olfactory neurons in *D. melanogaster* via volume electron microscopy. *eLife*, 14.

Bera M, et al. (2025) Two successive oligomeric Munc13 assemblies scaffold vesicle docking and SNARE assembly to support neurotransmitter release. *Nature communications*, 16(1), 7222.

Chintapula U, et al. (2025) Droplet Squeeze Microfluidic Platform for Generating Extracellular Vesicle Hybrids for Drug Delivery. *Small (Weinheim an der Bergstrasse, Germany)*, 21(37), e2503807.

Wilson JS, et al. (2025) Molecular mechanism of bacteriophage contraction structure of an S-layer-penetrating bacteriophage. *Life science alliance*, 8(6).

Böhning J, et al. (2025) Structure of the virulence-associated *Neisseria meningitidis* filamentous bacteriophage MDA?. *Proceedings of the National Academy of Sciences of the United States of America*, 122(25), e2420157122.

Levin T, et al. (2025) Mutation-induced filaments of folded proteins are inert and non-toxic in a cellular system. *Molecular systems biology*, 21(10), 1306.

Rodrigues M, et al. (2025) Naiavirus: an enveloped giant virus with a pleomorphic, flexible tail. *Nature communications*, 16(1), 8306.

Shalaby MM, et al. (2025) Computational guided identification of novel anti-mycobacterial agent proved by in-vitro and in-vivo validation. *BMC microbiology*, 25(1), 576.