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

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: 20260919T195016+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 1685 mentions in open access literature.

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

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).

Wood L, et al. (2026) Neural bottlenecks: axon count, distribution, and conduction in the Manduca sexta neck connective. Journal of comparative physiology. A, Neuroethology, sensory, neural, and behavioral physiology, 212(2), 391.

Wexler LR, et al. (2026) A stereotyped glial attachment determines the morphology and function of neuronal cilia. bioRxiv : the preprint server for biology.

Müller PM, et al. (2026) Large-scale endoplasmic reticulum membrane solidification spatially organises proteins under thermal or metabolic stress. bioRxiv : the preprint server for biology.

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

Wu L, et al. (2026) CLCC1 governs ER bilayer equilibration to maintain lipid homeostasis. Nature, 652(8109), 471.

Ahuja K, et al. (2026) Human Myelin Spheres for in Vitro Oligodendrocyte Maturation, Myelination and Neurological Disease Modeling. Stem cell reviews and reports, 22(3), 1420.

Pardue EJ, et al. (2026) Dual membrane-spanning anti-sigma 2 controls OMV biogenesis and colonization fitness in Bacteroides thetaiotaomicron. Journal of bacteriology, 208(4), e0044225.

Bolzoni R, et al. (2026) Magnetoreception in a freshwater ciliate arises from endosymbiosis. Nature communications, 17(1).

Et-Tanjaouy M, et al. (2026) In silico structural and functional characterization of high-risk missense variants in MMP8, GZMK, and OASL genes associated with epidemic viral infections. Scientific reports, 16(1).

Pain C, et al. (2026) Built different: ER cisternae formed by the Arabidopsis Lunapark proteins differ in ultrastructure and affect ER-Golgi transport. The New phytologist, 250(6), 3828.

Zehr EA, et al. (2026) Microtubules in the axon are GDP bound but adopt a stable GTP-like expanded state. Nature structural & molecular biology, 33(4), 631.

Bayat Z, et al. (2026) A bioinformatics pipeline for the design of a SART3-targeted cancer vaccine with enhanced immunogenicity. Genomics & informatics, 24(1).

Corroyer-Dulmont S, et al. (2026) Subcellular reorganization upon phage infection reveals stepwise assembly of viral particles from membrane-associated precursors. Nature communications, 17(1).

Ochner H, et al. (2026) Subcellular chemical mapping using correlated cryogenic electron and mass spectrometry imaging. Nature methods, 23(6), 1174.

Masó-Martínez M, et al. (2026) Impact of oxidative stress on Magnetospirillum gryphiswaldense MSR-1 physiology and magnetosome biomineralization at the single-cell level. mBio, 17(2), e0326525.

Rachid R, et al. (2026) Optimisation of freeze substitution protocols for the examination of malaria parasite structure by volumetric electron microscopy. Journal of microscopy, 301(2), 168.

Nìng C, et al. (2026) Two types of axonal muscarinic acetylcholine receptors mediate formation of saliva cocktail in the tick Ixodes ricinus. Nature communications, 17(1).

Choudhary H, et al. (2026) In silico assessment of 4 methoxypelargonidin and luteolinidin from Parthenium hysterophorous as acetylcholinesterase inhibitors of Phlebotomus Papatasi. Scientific reports, 16(1), 3598.