

Resource Summary Report

Generated by [RRID](#) on Apr 11, 2025

[Frealign](#)

RRID:SCR_016733

Type: Tool

Proper Citation

Frealign (RRID:SCR_016733)

Resource Information

URL: <http://grigoriefflab.janelia.org/frealign>

Proper Citation: Frealign (RRID:SCR_016733)

Description: Software tool for high-resolution refinement of 3D reconstructions from cryo-EM images of single particles. Used to process electron microscope images of single molecules and complexes to obtain reconstructions at the highest possible resolution.

Synonyms: FrealignX

Resource Type: software resource, software application, data processing software, image processing software

Defining Citation: [PMID:27572728](#)

Funding:

Availability: Free, Available for download

Resource Name: Frealign

Resource ID: SCR_016733

License: Janelia Farm Research Campus Software Copyright 1.1

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250411T055920+0000

Ratings and Alerts

No rating or validation information has been found for Frealign.

No alerts have been found for Frealign.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Kieuvongngam V, et al. (2020) Structural basis of substrate recognition by a polypeptide processing and secretion transporter. *eLife*, 9.

Li F, et al. (2020) Cryo-EM structure of VASH1-SVBP bound to microtubules. *eLife*, 9.

Tao X, et al. (2019) Cryo-EM structure of the KvAP channel reveals a non-domain-swapped voltage sensor topology. *eLife*, 8.

Ma M, et al. (2019) Structure of the Decorated Ciliary Doublet Microtubule. *Cell*, 179(4), 909.

Tao X, et al. (2019) Molecular structures of the human Slo1 K⁺ channel in complex with ?4. *eLife*, 8.

Borst AJ, et al. (2018) Germline VRC01 antibody recognition of a modified clade C HIV-1 envelope trimer and a glycosylated HIV-1 gp120 core. *eLife*, 7.

Johnson ZL, et al. (2018) ATP Binding Enables Substrate Release from Multidrug Resistance Protein 1. *Cell*, 172(1-2), 81.

Chen Z, et al. (2018) Structural Insights into Mdn1, an Essential AAA Protein Required for Ribosome Biogenesis. *Cell*, 175(3), 822.

Ti SC, et al. (2018) Human ?-Tubulin Isoforms Can Regulate Microtubule Protofilament Number and Stability. *Developmental cell*, 47(2), 175.

Chaaban S, et al. (2018) The Structure and Dynamics of *C. elegans* Tubulin Reveals the Mechanistic Basis of Microtubule Growth. *Developmental cell*, 47(2), 191.

Martin GM, et al. (2017) Anti-diabetic drug binding site in a mammalian KATP channel revealed by Cryo-EM. *eLife*, 6.

Davis JH, et al. (2016) Modular Assembly of the Bacterial Large Ribosomal Subunit. *Cell*, 167(6), 1610.

Grigorieff N, et al. (2016) Frealign: An Exploratory Tool for Single-Particle Cryo-EM. *Methods in enzymology*, 579, 191.