

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 15, 2026

FATCAT

RRID:SCR_014631

Type: Tool

Proper Citation

FATCAT (RRID:SCR_014631)

Resource Information

URL: <http://fatcat.burnham.org/>

Proper Citation: FATCAT (RRID:SCR_014631)

Description: Web server for flexible protein structure comparison. Structure alignment is formulated as the aligned fragment pairs chaining process allowing at most t twists, and the flexible structure alignment is transformed into a rigid structure alignment when t is forced to be 0., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Synonyms: (Flexible structure AlignmentT by Chaining Aligned fragment pairs allowing Twists, (Flexible structure AlignmentT by Chaining Aligned fragment pairs allowing Twists (FATCAT)

Resource Type: software resource, web application

Defining Citation: [PMID:14534198](#)

Keywords: web server, protein, comparison, structure, flexible protein structure, protein structure comparison, bio.tools

Funding: NIGMS GM101457;
NIGMS GM63208;
NIGMS GM076221;
NSF DBI-0349600

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: FATCAT

Resource ID: SCR_014631

Alternate IDs: biotools:fatcat

Alternate URLs: <https://bio.tools/fatcat>

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260912T195820+0000

Ratings and Alerts

No rating or validation information has been found for FATCAT.

No alerts have been found for FATCAT.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 139 mentions in open access literature.

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

Rahman K, et al. (2025) SNARE mimicry by the CD225 domain of IFITM3 enables regulation of homotypic late endosome fusion. The EMBO journal, 44(2), 534.

Valle C, et al. (2025) Discovery of additional genomic segments reveals the fluidity of jingmenvirus genomic organization. Virus evolution, 11(1), veaf023.

Kenaston MW, et al. (2025) Yellow Fever Virus Interactomes Reveal Common and Divergent Strategies of Replication and Evolution for Mosquito-borne Flaviviruses. bioRxiv : the preprint server for biology.

Trinidad-Barnech JM, et al. (2025) Expanding kinetoplastid genome annotation through protein structure comparison. PLoS pathogens, 21(4), e1013120.

Xie L, et al. (2025) Structural Analysis of Amylin and Amyloid ? Peptide Signaling in Alzheimer's Disease. Biomolecules, 15(1).

Bertolini MS, et al. (2025) Generation of inositol polyphosphates through a phospholipase C-independent pathway involving carbohydrate and sphingolipid metabolism in Trypanosoma cruzi. mBio, 16(5), e0331824.

Matern BM, et al. (2025) Swine Xenografts Share Few Predicted Indirectly Recognisable SLA-Derived Epitopes With HLA-Derived Epitopes From Human Kidney Grafts. HLA, 105(6), e70291.

Thomas C, et al. (2025) Zebrafish Polymerase Theta and human Polymerase Theta: Orthologues with homologous function. PloS one, 20(4), e0321886.

Patel DT, et al. (2025) Global atlas of predicted functional domains in *Legionella pneumophila* Dot/Icm translocated effectors. *Molecular systems biology*, 21(1), 59.

Goldstein SA, et al. (2024) Recurrent viral capture of cellular phosphodiesterases that antagonize OAS-RNase L. *Proceedings of the National Academy of Sciences of the United States of America*, 121(5), e2312691121.

Qin N, et al. (2024) Increased CO₂ fixation enables high carbon-yield production of 3-hydroxypropionic acid in yeast. *Nature communications*, 15(1), 1591.

Thomas C, et al. (2024) Zebrafish Polymerase Theta and human Polymerase Theta: orthologues with homologous function. *bioRxiv : the preprint server for biology*.

Schulte T, et al. (2024) Helical superstructures between amyloid and collagen in cardiac fibrils from a patient with AL amyloidosis. *Nature communications*, 15(1), 6359.

Madzime J, et al. (2024) Reduced white matter maturation in the central auditory system of children living with HIV. *Frontiers in neuroimaging*, 3, 1341607.

Magondo N, et al. (2024) Distinct alterations in white matter properties and organization related to maternal treatment initiation in neonates exposed to HIV but uninfected. *Scientific reports*, 14(1), 8822.

Ayyash S, et al. (2024) Assessing remission in major depressive disorder using a functional-structural data fusion pipeline: A CAN-BIND-1 study. *IBRO neuroscience reports*, 16, 135.

Evans JW, et al. (2024) Hippocampal volume changes after (R,S)-ketamine administration in patients with major depressive disorder and healthy volunteers. *Scientific reports*, 14(1), 4538.

Sánchez-Arroyo A, et al. (2024) A new and promiscuous α -glucuronidase from *Acinetobacter tandoii* DSM 14970 T inactivates the mycotoxin ochratoxin A. *Applied microbiology and biotechnology*, 108(1), 230.

Taylor DJ, et al. (2024) Genomic transfers help to decipher the ancient evolution of filoviruses and interactions with vertebrate hosts. *PLoS pathogens*, 20(9), e1011864.

Shafique I, et al. (2024) Computational evaluation of efflux pump homologues and lignans as potent inhibitors against multidrug-resistant *Salmonella typhi*. *PloS one*, 19(6), e0303285.