# **Resource Summary Report**

Generated by dkNET on May 20, 2025

## **FATCAT**

RRID:SCR\_014631

Type: Tool

## **Proper Citation**

FATCAT (RRID:SCR\_014631)

### Resource Information

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

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**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.

**Synonyms:** (Flexible structure AlignmenT by Chaining Aligned fragment pairs allowing Twists, (Flexible structure AlignmenT 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: Acknowledgement requested, Public

**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:** 20250519T203836+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 133 mentions in open access literature.

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

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.

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

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

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

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.

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.

Thomas C, et al. (2024) Zebrafish Polymerase Theta and human Polymerase Theta:

orthologues with homologous function. bioRxiv: the preprint server for biology.

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.

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

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.

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.

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.

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.

Basharat Z, et al. (2024) Screening Marine Microbial Metabolites as Promising Inhibitors of Borrelia garinii: A Structural Docking Approach towards Developing Novel Lyme Disease Treatment. BioMed research international, 2024, 9997082.

Mahout M, et al. (2024) Logic programming-based Minimal Cut Sets reveal consortium-level therapeutic targets for chronic wound infections. NPJ systems biology and applications, 10(1), 34.

Miao M, et al. (2024) Characterization of SIPs-type aquaporins and their roles in response to environmental cues in rice (Oryza sativa L.). BMC plant biology, 24(1), 305.

Mifsud JCO, et al. (2024) Mapping glycoprotein structure reveals Flaviviridae evolutionary history. Nature, 633(8030), 695.

Sabsay KR, et al. (2024) Using structure prediction of negative sense RNA virus nucleoproteins to assess evolutionary relationships. bioRxiv: the preprint server for biology.

Chang NC, et al. (2024) Gag proteins encoded by endogenous retroviruses are required for zebrafish development. bioRxiv: the preprint server for biology.