Resource Summary Report

Generated by NIF on May 5, 2025

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.

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

Resource Type: web application, software resource

Defining Citation: PMID:14534198

Keywords: web server, protein, comparison, structure, flexible protein structure, protein

structure comparison, bio.tools

Funding: NIGMS GM101457;

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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: 20250503T060459+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 NIF.

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.

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.

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.

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.

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.

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 ?/? hydrolase from Acinetobacter tandoii DSM 14970 T inactivates the mycotoxin ochratoxin A. Applied microbiology and biotechnology, 108(1), 230.

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.

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.

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

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

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