

Resource Summary Report

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ColabFold

RRID:SCR_025453

Type: Tool

Proper Citation

ColabFold (RRID:SCR_025453)

Resource Information

URL: <https://github.com/sokrypton/ColabFold>

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Description: Software application offers accelerated prediction of protein structures and complexes by combining homology search of MMseqs2 with AlphaFold2 or RoseTTAFold. Used for protein folding.

Resource Type: software resource, source code

Defining Citation: [PMID:35637307](#)

Keywords: prediction of protein structures and complexes, protein folding, protein structure prediction,

Funding: Max Planck Society ;
National Research Foundation of Korea ;
NIAID R21AI156595;
NIH Office of the Director DP5OD026389;
NSF ;
Seoul National University ;
University of Göttingen

Availability: Free, Available for download, Freely available

Resource Name: ColabFold

Resource ID: SCR_025453

Alternate URLs: <https://github.com/sokrypton/ColabFold/blob/main/AlphaFold2.ipynb>

License: MIT license

Record Creation Time: 20240709T053252+0000

Ratings and Alerts

No rating or validation information has been found for ColabFold.

No alerts have been found for ColabFold.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 493 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Ishii M, et al. (2026) Intensity modulation of trichromatic split fluorescent proteins for live cell mapping. Cell reports methods, 6(4), 101363.

Wang ZZ, et al. (2026) Dual interference with host neuropeptide signaling allows parasitoid wasp to hijack host sugar metabolism. The EMBO journal, 45(6), 2030.

Mitic I, et al. (2026) Assessing the validity of leucine zipper constructs predicted by AlphaFold. Protein science : a publication of the Protein Society, 35(1), e70438.

Ito T, et al. (2026) Multidimensional maturation of antibody variable domains with machine-learning assistance. mAbs, 18(1), 2611472.

Rodriguez Castro ED, et al. (2026) Cargo Recognition of Nesprin-2 by the Dynein Adapter Bicaudal D2 for a Nuclear Positioning Pathway That Is Important for Brain Development. Biochemistry, 65(6), 717.

Yu H, et al. (2026) Accurate strand-specific long-read transcript isoform discovery and quantification at bulk, single-cell, and single-nucleus resolution. bioRxiv : the preprint server for biology.

Wang H, et al. (2026) Candidatus Dermatophostum as a novel genus of polyphosphate-accumulating organisms for high-strength wastewater treatment. The ISME journal, 20(1).

Morris MJ, et al. (2026) Microcephaly-associated protein WDR62 supports purine metabolism by interacting with co-chaperone BAG2. The EMBO journal, 45(7), 2157.

Kimura T, et al. (2026) Whole-genome sequencing reveals an East Asian-specific rare variant of INPP5J associated with Alzheimer's disease. Translational psychiatry, 16(1).

Kang B, et al. (2026) Comprehensive annotation and analysis of human microproteins by human microprotein atlas platform. Communications chemistry, 9(1).

Pasquariello M, et al. (2026) CATION AMINO ACID TRANSPORTER1 encodes an arginine transporter whose expression is influenced by daylength and Photoperiod-1. *Annals of botany*, 137(4), 1001.

Ding K, et al. (2026) Deconvolving mutation effects on protein stability and function with disentangled protein language models. *bioRxiv : the preprint server for biology*.

Huang YJ, et al. (2026) Hidden structural states of proteins revealed by conformer selection. *Nature communications*, 17(1).

Poubanne F, et al. (2026) Functional convergence in Z-DNA biosynthesis highlighted by the characterization of nucleotide metabolism enzymes in bacteriophages. *Nucleic acids research*, 54(4).

Harrison MC, et al. (2026) Machine learning identifies novel signatures of antifungal drug resistance in *Saccharomycotina* yeasts. *PLoS genetics*, 22(3), e1012091.

Örçen A, et al. (2026) Functional Characterization of BbroAFP Reveals Its Pleiotropic Antifungal Activity in *Botrytis cinerea*. *Journal of fungi (Basel, Switzerland)*, 12(5).

Yeh YH, et al. (2026) Crystal structure of the CD33/Fab-10C8 complex elucidates the mechanism of antibody antagonism in HBV-induced immunosuppression. *Journal of biomedical science*, 33(1).

Goladze S, et al. (2026) Mucin modulates phage infection dynamics and biofilm formation in enteropathogenic *Yersinia enterocolitica*. *Current research in microbial sciences*, 11, 100618.

Lahey BD, et al. (2026) Mucin-derived sugars act as metabolic brakes controlling growth initiation in *Akkermansia muciniphila*. *Gut microbes*, 18(1), 2691334.

McCool RS, et al. (2026) Structure and immunogenicity of an engineered soluble prefusion-stabilized EBV gB antigen. *Nature communications*, 17(1), 1197.