# Resource Summary Report

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## PSIPRED

RRID:SCR_010246
Type: Tool

### Proper Citation

PSIPRED (RRID:SCR_010246)

### Resource Information

**URL:** http://bioinf.cs.ucl.ac.uk/psipred/

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**Description:** Web tool as secondary structure prediction method, incorporating two feed forward neural networks which perform analysis on output obtained from PSI-BLAST. Web server offering analyses of protein sequences.

**Synonyms:** PSIPRED Protein Sequence Analysis Workbench, PSIPRED 4.0

**Resource Type:** production service resource, data access protocol, web service, analysis service resource, software resource, service resource

**Defining Citation:** DOI:10.1093/nar/gkz297

**Keywords:** Predict Secondary Structure, protein analysis, secondary structure prediction, protein sequence, sequence analysis, protein, analysis

**Funding:** Biotechnology and Biological Science Research Council ;
University College London

**Availability:** Free, Freely available

**Resource Name:** PSIPRED

**Resource ID:** SCR_010246

**Alternate IDs:** SCR_018546, nlx_156884

**Alternate URLs:** https://sources.debian.org/src/psipred/

**Record Creation Time:** 20220129T080257+0000

**Record Last Update:** 20250331T060940+0000

## Ratings and Alerts

No rating or validation information has been found for PSIPRED.

No alerts have been found for PSIPRED.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 1586 mentions in open access literature.

**Listed below are recent publications.** The full list is available at FDI Lab - SciCrunch.org.


Taheri MN, et al. (2025) Cliotide U1, a Novel Antimicrobial Peptide Isolated From Urtica Dioica Leaves. Bioinformatics and biology insights, 19, 11779322251315291.

Rahman MM, et al. (2025) Designing of an mRNA vaccine against high-risk human papillomavirus targeting the E6 and E7 oncoproteins exploiting immunoinformatics and dynamic simulation. PloS one, 20(1), e0313559.

Siddiki AZ, et al. (2025) Development of a multi-epitope chimeric vaccine in silico against Babesia bovis, Theileria annulata, and Anaplasma marginale using computational biology tools and reverse vaccinology approach. PloS one, 20(1), e0312262.

Basmenj ER, et al. (2025) Computational epitope-based vaccine design with bioinformatics approach; a review. Heliyon, 11(1), e41714.

Zhou D, et al. (2025) Dysfunction of ATP7B Splicing Variant Caused by Enhanced Interaction With COMMD1 in Wilson Disease. Cellular and molecular gastroenterology and hepatology, 19(2), 101418.

Ran Q, et al. (2025) Eniluracil blocks AREG signalling-induced pro-inflammatory fibroblasts of melanoma in heart failure. ESC heart failure, 12(1), 525.

Fatalska A, et al. (2024) Recruitment of trimeric eIF2 by phosphatase non-catalytic subunit PPP1R15B. Molecular cell, 84(3), 506.

Guilvout I, et al. (2024) Membrane platform protein PulF of the Klebsiella type II secretion system forms a trimeric ion channel essential for endopilus assembly and protein secretion. mBio, 15(1), e0142323.

Naveed M, et al. (2024) Development and immunological evaluation of an mRNA-based vaccine targeting Naegleria fowleri for the treatment of primary amoebic meningoencephalitis. Scientific reports, 14(1), 767.

Northcote HM, et al. (2024) A dominance of Mu class glutathione transferases within the equine tapeworm Anoplocephala perfoliata. Parasitology, 151(3), 282.

Magwaza B, et al. (2024) Biochemical and in silico structural properties of a thermo-acid stable ?-glucosidase from Beauveria bassiana. Heliyon, 10(7), e28667.

Al Khoury C, et al. (2024) ABC transporter inhibition by beauvericin partially overcomes drug resistance in Leishmania tropica. Antimicrobial agents and chemotherapy, 68(5), e0136823.

Houston J, et al. (2024) Phospho-KNL-1 recognition by a TPR domain targets the BUB-1-BUB-3 complex to C. elegans kinetochores. The Journal of cell biology, 223(7).

Sarvmeili J, et al. (2024) Immunoinformatics design of a structural proteins driven multi-epitope candidate vaccine against different SARS-CoV-2 variants based on fynomer. Scientific reports, 14(1), 10297.

Aurongzeb M, et al. (2024) Exploring the extrachromosomal plasmid rDNA of Naegleria fowleri AY27 genotype II: A human brain-eating amoeba via high-throughput sequencing. BMC medical genomics, 17(1), 125.

Wang Z, et al. (2024) A DIRIGENT Gene GmDIR26 Regulates Pod Dehiscence in Soybean. International journal of genomics, 2024, 2439396.

Biswas SS, et al. (2024) Phytocompounds as potential inhibitors of mycobacterial multidrug efflux pump Rv1258c: an in silico approach. AMB Express, 14(1), 25.

Chen Y, et al. (2024) Salicylic acid inducing the expression of maize anti-insect gene SPI: a potential control strategy for Ostrinia furnacalis. BMC plant biology, 24(1), 152.

Kumar A, et al. (2024) Multi-epitope vaccine design using in silico analysis of glycoprotein and nucleocapsid of NIPAH virus. PloS one, 19(5), e0300507.

Ozsahin DU, et al. (2024) Enhancing explainable SARS-CoV-2 vaccine development leveraging bee colony optimised Bi-LSTM, Bi-GRU models and bioinformatic analysis. Scientific reports, 14(1), 6737.