

Resource Summary Report

Generated by [dkNET](#) on Aug 14, 2026

DiscoTope

RRID:SCR_018530

Type: Tool

Proper Citation

DiscoTope (RRID:SCR_018530)

Resource Information

URL: <http://www.cbs.dtu.dk/services/DiscoTope/>

Proper Citation: DiscoTope (RRID:SCR_018530)

Description: Web server to predict discontinuous B cell epitopes from protein three dimensional structures.

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

Defining Citation: [PMID:23300419](#)

Keywords: B cell epitope, B cell epitope prediction, discontinuous B cell epitope prediction, protein, protein three dimensional structure, protein structure, 3D

Funding: European Union Seventh Framework Programme

Availability: Free, Freely available

Resource Name: DiscoTope

Resource ID: SCR_018530

Record Creation Time: 20220129T080340+0000

Record Last Update: 20260815T042822+0000

Ratings and Alerts

No rating or validation information has been found for DiscoTope.

No alerts have been found for DiscoTope.

Data and Source Information

Usage and Citation Metrics

We found 109 mentions in open access literature.

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

Lalaurie C, et al. (2026) A Common Missense Variant, W335S, in α 2-Glycoprotein I (APOH) is Associated with Increased Autoantibody Levels but Reduced Venous Thromboembolism Risk. medRxiv : the preprint server for health sciences.

Tan CH, et al. (2026) Antigenic divergence of cobra short-chain α -neurotoxins: Implications for regional antivenom effectiveness in Southeast Asia. PLoS neglected tropical diseases, 20(5), e0013859.

Nguyen HT, et al. (2026) Machine learning-driven identification of virulence determinants in *Borrelia burgdorferi* associated with human dissemination. PLoS computational biology, 22(6), e1014407.

Barua A, et al. (2025) A Reverse Vaccinology and Immunoinformatic Approach for the Designing of a Novel mRNA Vaccine Against Stomach Cancer Targeting the Potent Pathogenic Proteins of *Helicobacter pylori*. Bioinformatics and biology insights, 19, 11779322251331104.

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.

Zhang D, et al. (2025) Engineering a TGEV S-trimer chimera with PEDV D0-NTD generates potent neutralizing antibodies against both viruses. Journal of virology, 99(11), e0145225.

Vahed H, et al. (2025) A pan-beta-coronavirus vaccine bearing conserved and asymptomatic B- and T-cell epitopes protects against highly pathogenic Delta and highly transmissible Omicron SARS-CoV-2 variants. Human vaccines & immunotherapeutics, 21(1), 2527438.

Sabzevari J, et al. (2025) In silico design and characterization of a novel multi-epitope mRNA vaccine candidate against *Streptococcus pneumoniae*. Scientific reports, 15(1), 45154.

Deepthi V, et al. (2025) Computationally designed multi-epitope vaccine construct targeting the SARS-CoV-2 spike protein elicits robust immune responses in silico. Scientific reports, 15(1), 9562.

Alotaibi BS, et al. (2025) In-silico core proteome analysis for chimeric vaccine development against tick-borne tularemia. PloS one, 20(12), e0337692.

Freeman-Gallant G, et al. (2024) A Refined Human Linear B Cell Epitope Map of Outer Surface Protein C (OspC) From the Lyme Disease Spirochete, *Borrelia Burgdorferi*.

Pathogens & immunity, 10(1), 159.

Mahdeen AA, et al. (2024) Designing novel multiepitope mRNA vaccine targeting Hendra virus (HeV): An integrative approach utilizing immunoinformatics, reverse vaccinology, and molecular dynamics simulation. *PloS one*, 19(10), e0312239.

Albutti A, et al. (2024) An Integrated Approach to Develop a Potent Vaccine Candidate Construct Against Prostate Cancer by Utilizing Machine Learning and Bioinformatics. *Cancer reports (Hoboken, N.J.)*, 7(12), e70079.

Karimipour-Saryazdi A, et al. (2024) In Silico Analysis of the ROP29 Protein as a Vaccine Candidate Against *Toxoplasma gondii*. *Journal of parasitology research*, 2024, 1918202.

Pumchan A, et al. (2024) Computational design of novel chimeric multiepitope vaccine against bacterial and viral disease in tilapia (*Oreochromis sp.*). *Scientific reports*, 14(1), 14048.

Delgado KN, et al. (2024) Immunodominant extracellular loops of *Treponema pallidum* FadL outer membrane proteins elicit antibodies with opsonic and growth-inhibitory activities. *bioRxiv : the preprint server for biology*.

Budaya TN, et al. (2023) The Evolution of Polyclonal Antibody from Specific Epitope 47kDA for Detection of Bladder Cancer. *Asian Pacific journal of cancer prevention : APJCP*, 24(9), 3155.

Liang W, et al. (2023) Identification of a novel porcine Teschovirus 2 strain as causative agent of encephalomyelitis in suckling piglets with high mortality in China. *BMC veterinary research*, 19(1), 2.

Wang H, et al. (2023) In silico epitope prediction and evolutionary analysis reveals capsid mutation patterns for enterovirus B. *PloS one*, 18(8), e0290584.

Shafaghi M, et al. (2023) A new candidate epitope-based vaccine against PspA PhtD of *Streptococcus pneumoniae*: a computational experimental approach. *Frontiers in cellular and infection microbiology*, 13, 1271143.