

Resource Summary Report

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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: analysis service resource, web service, software resource, data access protocol, production service resource, 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: 20260805T044425+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 99 mentions in open access literature.

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

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.

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.

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.

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.

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.

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.

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*.

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.

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.

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

Ojha R, et al. (2023) Multi-pathogen based chimeric vaccine to fight against COVID-19 and concomitant coinfections. *Biotechnology letters*, 45(7), 779.

Martinez-Olivares CE, et al. (2023) In silico EsxG EsxH rational epitope selection: Candidate epitopes for vaccine design against pulmonary tuberculosis. *PloS one*, 18(4), e0284264.

Sura K, et al. (2023) Exploring structural antigens of yellow fever virus to design multi-epitope subunit vaccine candidate by utilizing an immuno-informatics approach. *Journal, genetic engineering & biotechnology*, 21(1), 161.

Kolla HB, et al. (2023) Mapping of conserved immunodominant epitope peptides in the outer membrane porin (Omp) L of prominent Enterobacteriaceae pathogens associated with gastrointestinal infections. *Journal, genetic engineering & biotechnology*, 21(1), 146.