

Resource Summary Report

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VaxiJen

RRID:SCR_018514

Type: Tool

Proper Citation

VaxiJen (RRID:SCR_018514)

Resource Information

URL: <http://www.ddg-pharmfac.net/vaxijen/VaxiJen/VaxiJen.html>

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Description: Web server for prediction of protective antigens, tumor antigens and subunit vaccines. Alignment free approach for antigen prediction, which is based on auto cross covariance transformation of protein sequences into uniform vectors of principal amino acid properties.

Synonyms: VaxiJen v2

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

Defining Citation: [PMID:17207271](#)

Keywords: Protective antigen prediction, antigen, tumor antigen prediction, , subunit vaccines prediction, protein sequence, amino acid property

Resource Name: VaxiJen

Resource ID: SCR_018514

Record Creation Time: 20220129T080340+0000

Record Last Update: 20260801T042833+0000

Ratings and Alerts

No rating or validation information has been found for VaxiJen.

No alerts have been found for VaxiJen.

Data and Source Information

Usage and Citation Metrics

We found 732 mentions in open access literature.

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

Kamran Z, et al. (2026) In silico design of a matrix (M) protein-based vaccine candidate against Newcastle disease virus. Poultry science, 105(1), 106101.

Khan A, et al. (2026) HMPV-TherResDB: Comprehensive human metapneumovirus (HMPV) database for sequence-structure annotations, vaccine resources, and therapeutics research. Virus research, 363, 199665.

Pasha AVK, et al. (2026) Immunoinformatics-Based Multi-Epitope Vaccine Targeting Helicobacter Pylori. Cancer reports (Hoboken, N.J.), 9(1), e70441.

Dulay ANG, et al. (2025) Computational insights in CD58 binding to ASFV CD2v and in silico optimization of nanobody designs against the interface. Open veterinary journal, 15(1), 348.

Mandal S, et al. (2025) Development of a multi-epitope vaccine candidate to combat SARS-CoV-2 and dengue virus co-infection through an immunoinformatic approach. Frontiers in immunology, 16, 1442101.

Sheikhi A, et al. (2025) Novel sACE2-Anti-CD16VHH Fusion Protein Surreptitiously Inhibits SARS-CoV-2 Variant Spike Proteins and Macrophage Cytokines, and Activates Natural Killer Cell Cytotoxicity. Vaccines, 13(2).

Mahafujul Alam SS, et al. (2025) Immunoinformatics based designing of a multi-epitope cancer vaccine targeting programmed cell death ligand??1. Scientific reports, 15(1), 12420.

Venkateswaran D, et al. (2025) Designing a multi-epitope vaccine against African swine fever virus using immunoinformatics approach. Scientific reports, 15(1), 16044.

Dingding H, et al. (2025) Subtractive proteomics and reverse-vaccinology approaches for novel drug targets and designing a chimeric vaccine against Ruminococcus gnavus strain RJX1120. Frontiers in immunology, 16, 1555741.

Ahmadifar F, et al. (2025) The evaluation of a novel multi-epitope vaccine against human papillomavirus and Candida albicans. Journal, genetic engineering & biotechnology, 23(2), 100489.

Zhao Z, et al. (2025) Computational design and evaluation of multiepitope vaccines against herpes simplex virus type 1. Frontiers in immunology, 16, 1581571.

Kumar Mishra S, et al. (2025) An integrated mutation-based immunoinformatic approach incorporating variability in epitopes: a study based on HIV subtype C. Frontiers in immunology, 16, 1540253.

Aali F, et al. (2025) Bioinformatics analysis of innovative multi-epitope vaccine utilizing MAGE-A, MAM-A, and Gal-3 for breast cancer management. *Scientific reports*, 15(1), 19774.

Ehsasatvatan M, et al. (2025) Immunoinformatic design of chimeric multiepitope vaccine for the prevention of human metapneumovirus (hMPV). *BMC infectious diseases*, 25(1), 964.

Naveed M, et al. (2025) Computational design of a glycosylated multi-epitope vaccine against HAsV-1 and HAsV-2 astrovirus for acute gastroenteritis. *Scientific reports*, 15(1), 13954.

Xiao C, et al. (2025) Characterizing HLA-A2-restricted CD8+ T-cell epitopes and immune responses to Omicron variants in SARS-CoV-2-inactivated vaccine recipients. *Frontiers in immunology*, 16, 1534530.

Masum MHU, et al. (2025) Revolutionizing Chikungunya Vaccines: mRNA Breakthroughs With Molecular and Immune Simulations. *Bioinformatics and biology insights*, 19, 11779322251324859.

Souod N, et al. (2025) In silico design and evaluation of a multiepitope vaccine against *Bordetella pertussis*: structural, immunological, and biological properties. *Genomics & informatics*, 23(1), 16.

Badten AJ, et al. (2025) Evaluation of highly conserved *Burkholderia pseudomallei* outer membrane proteins as protective antigens against respiratory melioidosis. *NPJ vaccines*, 10(1), 186.

Albutti A, et al. (2025) Rational design of a multi epitope vaccine against *Salmonella typhi* via subtractive proteomics, reverse vaccinology and molecular modeling. *Scientific reports*, 15(1), 32057.