In silico identification of vaccine targets for 2019-nCoV

F1000Research

9, 145

DOI: 10.12688/f1000research.22507.2

Citation Report

#	ARTICLE	IF	CITATIONS
1	An immunoinformatics study on the spike protein of SARS-CoV-2 revealing potential epitopes as vaccine candidates. Heliyon, 2020, 6, e04865.	1.4	8
2	The role of host genetics in the immune response to SARSâ€CoVâ€2 and COVIDâ€19 susceptibility and severity. Immunological Reviews, 2020, 296, 205-219.	2.8	175
3	Immunodominant regions prediction of nucleocapsid protein for SARS-CoV-2 early diagnosis: a bioinformatics and immunoinformatics study. Pathogens and Global Health, 2020, 114, 463-470.	1.0	20
4	SARS-CoV-2 Epitopes Are Recognized by a Public and Diverse Repertoire of Human T Cell Receptors. Immunity, 2020, 53, 1245-1257.e5.	6.6	194
5	Epitope-Based Immunoinformatics Approach on Nucleocapsid Protein of Severe Acute Respiratory Syndrome-Coronavirus-2. Molecules, 2020, 25, 5088.	1.7	33
6	Polymorphism and Selection Pressure of SARS-CoV-2 Vaccine and Diagnostic Antigens: Implications for Immune Evasion and Serologic Diagnostic Performance. Pathogens, 2020, 9, 584.	1.2	16
7	Genetic gateways to COVIDâ€19 infection: Implications for risk, severity, and outcomes. FASEB Journal, 2020, 34, 8787-8795.	0.2	111
8	HLA-B*44 and C*01 Prevalence Correlates with Covid19 Spreading across Italy. International Journal of Molecular Sciences, 2020, 21, 5205.	1.8	73
9	Computationally Optimized SARS-CoV-2 MHC Class I and II Vaccine Formulations Predicted to Target Human Haplotype Distributions. Cell Systems, 2020, 11, 131-144.e6.	2.9	50
10	SARS-CoV-2 Vaccine Development: Current Status. Mayo Clinic Proceedings, 2020, 95, 2172-2188.	1.4	96
11	Immunoinformatics-guided design of an epitope-based vaccine against severe acute respiratory syndrome coronavirus 2 spike glycoprotein. Computers in Biology and Medicine, 2020, 124, 103967.	3.9	62
12	Vaccine Candidates against Coronavirus Infections. Where Does COVID-19 Stand?. Viruses, 2020, 12, 861.	1.5	43
13	Evolutionary Analysis of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Reveals Genomic Divergence with Implications for Universal Vaccine Efficacy. Vaccines, 2020, 8, 591.	2.1	3
14	Designing a multi-epitope peptide based vaccine against SARS-CoV-2. Scientific Reports, 2020, 10, 16219.	1.6	87
15	Vaccines for COVID-19: perspectives from nucleic acid vaccines to BCG as delivery vector system. Microbes and Infection, 2020, 22, 515-524.	1.0	23
16	Computationally validated SARS-CoV-2 CTL and HTL Multi-Patch vaccines, designed by reverse epitomics approach, show potential to cover large ethnically distributed human population worldwide. Journal of Biomolecular Structure and Dynamics, 2022, 40, 2369-2388.	2.0	10
17	Potential CD8+ T Cell Cross-Reactivity Against SARS-CoV-2 Conferred by Other Coronavirus Strains. Frontiers in Immunology, 2020, 11, 579480.	2.2	42
18	Binding affinities of 438 <scp>HLA</scp> proteins to complete proteomes of seven pandemic viruses and distributions of strongest and weakest <scp>HLA</scp> peptide binders in populations worldwide. Hla, 2020, 96, 277-298.	0.4	89

#	Article	IF	Citations
19	An insight into the epitope-based peptide vaccine design strategy and studies against COVID-19. Turkish Journal of Biology, 2020, 44, 215-227.	2.1	24
20	Genetics and genomics of SARS-CoV-2: A review of the literature with the special focus on genetic diversity and SARS-CoV-2 genome detection. Genomics, 2021, 113, 1221-1232.	1.3	126
21	Designing of Nucleocapsid Protein Based Novel Multi-epitope Vaccine Against SARS-COV-2 Using Immunoinformatics Approach. International Journal of Peptide Research and Therapeutics, 2021, 27, 941-956.	0.9	20
22	The virus that shook the world: questions and answers about SARS-CoV-2 and COVID-19. Biotechnology and Biotechnological Equipment, 2021, 35, 74-102.	0.5	13
23	An immunogenetic view of COVID-19. Genetics and Molecular Biology, 2021, 44, e20210036.	0.6	10
24	The Relevance of Bioinformatics Applications in the Discovery of Vaccine Candidates and Potential Drugs for COVID-19 Treatment. Bioinformatics and Biology Insights, 2021, 15, 117793222110021.	1.0	22
25	HLA, Immune Response, and Susceptibility to COVID-19. Frontiers in Immunology, 2020, 11, 601886.	2.2	72
26	AI Aided Design of Epitope-Based Vaccine for the Induction of Cellular Immune Responses Against SARS-CoV-2. Frontiers in Genetics, 2021, 12, 602196.	1.1	5
27	Perspectives on RNA Vaccine Candidates for COVID-19. Frontiers in Molecular Biosciences, 2021, 8, 635245.	1.6	44
28	In silico T cell epitope identification for SARS-CoV-2: Progress and perspectives. Advanced Drug Delivery Reviews, 2021, 171, 29-47.	6.6	52
29	CytotoxicÂT-lymphocyte elicited vaccine against SARS-CoV-2 employing immunoinformaticsÂframework. Scientific Reports, 2021, 11, 7653.	1.6	22
30	Generation of Virtual Patient Populations That Represent Real Type 1 Diabetes Cohorts. Mathematics, 2021, 9, 1200.	1.1	9
31	Current and prospective computational approaches and challenges for developing COVID-19 vaccines. Advanced Drug Delivery Reviews, 2021, 172, 249-274.	6.6	30
33	Structural insights on the interaction potential of natural leads against major protein targets of SARS-CoV-2: Molecular modelling, docking and dynamic simulation studies. Computers in Biology and Medicine, 2021, 132, 104325.	3.9	18
34	Bioinformatic HLA Studies in the Context of SARS-CoV-2 Pandemic and Review on Association of HLA Alleles with Preexisting Medical Conditions. BioMed Research International, 2021, 2021, 1-12.	0.9	5
35	Immunoinformatics based prediction of recombinant multi-epitope vaccine for the control and prevention of SARS-CoV-2. AEJ - Alexandria Engineering Journal, 2021, 60, 3087-3097.	3.4	9
36	<scp>HLA</scp> genetic polymorphism in patients with Coronavirus Disease 2019 in Midwestern United States. Hla, 2021, 98, 370-379.	0.4	16
37	COMPUTER SIMULATION IN THE DEVELOPMENT OF VACCINES AGAINST COVID-19 BASED ON HLA-SYSTEM ANTIGENS. Journal of Clinical Practice, 0, , .	0.2	0

#	ARTICLE	IF	CITATIONS
38	Antigen presentation in SARS-CoV-2 infection: the role of class I HLA and ERAP polymorphisms. Human Immunology, 2021, 82, 551-560.	1.2	23
39	Frequency of HLA alleles among COVID-19 infected patients: Preliminary data from Saudi Arabia. Virology, 2021, 560, 1-7.	1.1	18
40	SARS-CoV-2 Transgressing LncRNAs Uncovers the Known Unknowns. Physiological Genomics, 2021, 53, 433-440.	1.0	4
41	Immunoinformatics and molecular modeling approach to design universal multi-epitope vaccine for SARS-CoV-2. Informatics in Medicine Unlocked, 2021, 24, 100578.	1.9	41
42	The SARS-Coronavirus Infection Cycle: A Survey of Viral Membrane Proteins, Their Functional Interactions and Pathogenesis. International Journal of Molecular Sciences, 2021, 22, 1308.	1.8	83
43	How do we share data in COVID-19 research? A systematic review of COVID-19 datasets in PubMed Central Articles. Briefings in Bioinformatics, 2021, 22, 800-811.	3.2	22
47	Role of artificial intelligence in peptide vaccine design against RNA viruses. Informatics in Medicine Unlocked, 2021, 26, 100768.	1.9	10
52	A novel ensemble fuzzy classification model in SARS-CoV-2 B-cell epitope identification for development of protein-based vaccine. Applied Soft Computing Journal, 2022, 116, 108280.	4.1	3
53	Understanding the immunogenetics of human viral diseases. , 2022, , 131-163.		0
54	Peptides for Vaccine Development. ACS Applied Bio Materials, 2022, 5, 905-944.	2.3	26
55	HLA variation and antigen presentation in COVID-19 and SARS-CoV-2 infection. Current Opinion in Immunology, 2022, 76, 102178.	2.4	40
56	A global survey in the developmental landscape of possible vaccination strategies for COVID-19. Clinical Immunology, 2022, 237, 108958.	1.4	11
63	Probing the Immune System Dynamics of the COVID-19 Disease for Vaccine Designing and Drug Repurposing Using Bioinformatics Tools. Immuno, 2022, 2, 344-371.	0.6	2
64	Computational design of immunogenic peptide constructs comprising multiple human leukocyte antigen restricted dengue virus envelope epitopes. Journal of Molecular Recognition, 2022, 35, e2961.	1.1	5
65	T Cell Epitope Discovery in the Context of Distinct and Unique Indigenous HLA Profiles. Frontiers in Immunology, 2022, 13, .	2.2	4
66	Reverse vaccinology-based prediction of a multi-epitope SARS-CoV-2 vaccine and its tailoring to new coronavirus variants. Journal of Biomolecular Structure and Dynamics, 2022, , 1-22.	2.0	4
67	SARS-Arena: Sequence and Structure-Guided Selection of Conserved Peptides from SARS-related Coronaviruses for Novel Vaccine Development. Frontiers in Immunology, 0, 13, .	2.2	1
68	Immunology to Immunotherapeutics of SARS-CoV-2: Identification of Immunogenic Epitopes for Vaccine Development. Current Microbiology, 2022, 79, .	1.0	3

#	Article	IF	Citations
69	The immunogenetics of COVID-19. Immunogenetics, 2023, 75, 309-320.	1.2	8
70	Functional studies of HLA and its role in SARS-CoV-2: Stimulating T cell response and vaccine development. Life Sciences, 2023, 315, 121374.	2.0	3