

Documents

- 1) Mubarak, A.S., Ameen, Z.S., Hassan, A.S., Ozsahin, D.U.

Enhancing tuberculosis vaccine development: a deconvolution neural network approach for epitope prediction

(2024) *Scientific Reports*, 14 (1), art. no. 10375, .

- 2) Sarvmeili, J., Baghban Kohnehrouz, B., Gholizadeh, A., Shanehbandi, D., Ofoghi, H.

Immunoinformatics design of a structural proteins driven multi-epitope candidate vaccine against SARS-CoV-2 variants based on fynommer

(2024) *Scientific Reports*, 14 (1), art. no. 10297, .

- 3) Silva, M.F., Pereira, G., Mateus, L., da Costa, L.L., Silva, E.

Design of a multi-epitope-based vaccine candidate against Bovine Genital Campylobacter using a vaccinology approach

(2024) *BMC Veterinary Research*, 20 (1), art. no. 144, .

- 4) Ghasemi Nezhad, F., Karmostaji, A., Sarkoohi, P., Shahbazi, B., Gharibi, Z., Negahdari, B., A

Introduction of protein vaccine candidate based on AP65, AP33, and α -actinin proteins of *Trichomonas vaginalis* parasite: an immunoinformatics design

(2024) *Parasites and Vectors*, 17 (1), art. no. 165, .

- 5) Ozsahin, D.U., Ameen, Z.S., Hassan, A.S., Mubarak, A.S.

Enhancing explainable SARS-CoV-2 vaccine development leveraging bee colony optimization models and bioinformatic analysis

(2024) *Scientific Reports*, 14 (1), art. no. 6737, .

- 6) Nguyen, T.L., Kim, H.

Immunoinformatics and computational approaches driven designing a novel vaccine candidate against SARS-CoV-2

virus

(2024) *Scientific Reports*, 14 (1), art. no. 5999, .

- 7) Chao, P., Zhang, X., Zhang, L., Yang, A., Wang, Y., Chen, X.

Proteomics-based vaccine targets annotation and design of multi-epitope vaccine against *Streptococcus gallolyticus*

(2024) *Scientific Reports*, 14 (1), art. no. 4836, .

- 8) Salahlou, R., Farajnia, S., Bargahi, N., Bakhtiyari, N., Elmi, F., Shahgolzari, M., Fiering, S., Ve

Development of a novel multi-epitope vaccine against the pathogenic human polyoma virus: implications for vaccinology

(2024) *BMC Infectious Diseases*, 24 (1), art. no. 177, .

- 9) Elshafei, S.O., Mahmoud, N.A., Almofti, Y.A.

Immunoinformatics, molecular docking and dynamics simulation approaches unveil a peptide vaccine candidate against avian leukosis virus

(2024) *Scientific Reports*, 14 (1), art. no. 2870, .

- 10) Choudhury, A., Kumar, P., Nafidi, H.-A., Almaary, K.S., Wondmie, G.F., Kumar, A., Bourhia, I

Immunoinformatics approaches in developing a novel multi-epitope chimeric vaccine against *Saprolegnia parasitica*

(2024) *Scientific Reports*, 14 (1), art. no. 2260, .

- 11) Aarthy, M., Pandiyan, G.N., Paramasivan, R., Kumar, A., Gupta, B.

Identification and prioritisation of potential vaccine candidates using subtractive proteomics for a multi-epitope vaccine against *Wuchereria bancrofti*

(2024) *Scientific Reports*, 14 (1), art. no. 1970, .

- 12) Simbulan, A.M., Banico, E.C., Sira, E.M.J.S., Odchimar, N.M.O., Orosco, F.L.

Immunoinformatics-guided approach for designing a pan-proteome multi-epitope subunit vaccine against swine fever virus

(2024) *Scientific Reports*, 14 (1), art. no. 1354, .

- 13) Naveed, M., Ali, U., Aziz, T., Jabeen, K., Arif, M.H., Alharbi, M., Alasmari, A.F., Albekairi, T.H.

Development and immunological evaluation of an mRNA-based vaccine targeting Naegle treatment of primary amoebic meningoencephalitis
(2024) *Scientific Reports*, 14 (1), art. no. 767, .

14) Nguyen, T.L., Kim, H.

Integrating immunoinformatics and computational epitope prediction for a vaccine ca syncytial virus
(2024) *Infectious Disease Modelling*, 9 (3), pp. 763-774.

15) Nguyen, T.L., Kim, H.

Discovering peptides and computational investigations of a multiepitope vaccine targ tuberculosis
(2024) *Synthetic and Systems Biotechnology*, 9 (3), pp. 391-405.

16) Ghafouri, E., Fadaie, M., Amirkhani, Z., Esmaeilifallah, M., Rahimmanesh, I., Hosseini, N., F

Evaluation of humoral and cellular immune responses against *Vibrio cholerae* using c epitope-phage-based vaccine
(2024) *International Immunopharmacology*, 134, art. no. 112160, .

17) Bhalerao, P., Singh, S., Prajapati, V.K., Bhatt, T.K.

Exploring malaria parasite surface proteins to devise highly immunogenic multi-epit Plasmodium falciparum
(2024) *Journal of Genetic Engineering and Biotechnology*, 22 (2), art. no. 100377, .

18) Das, N.C., Gorai, S., Gupta, P.S.S., Panda, S.K., Rana, M.K., Mukherjee, S.

Immune targeting of filarial glutaredoxin through a multi-epitope peptide-based vacci approach
(2024) *International Immunopharmacology*, 133, art. no. 112120, .

19) Sarfraz, A., Qurrat-UI-Ain Fatima, S., Shehroz, M., Ahmad, I., Zaman, A., Nishan, U., Tayyat Ullah, R., Ali, E.A., Shah, M.

Decrypting the multi-genome data for chimeric vaccine designing against the antibiot
(2024) *International Immunopharmacology*, 132, art. no. 111952, .

20)

Guo, Z., Ren, H., Chang, Q., Liu, R., Zhou, X., Xue, K., Sun, T., Luo, J., Wang, F., Ge, J.

Lactobacilli-derived adjuvants combined with immunoinformatics-driven multi-epitope ar protects against *Clostridium perfringens* in a mouse model

(2024) *International Journal of Biological Macromolecules*, 267, art. no. 131475, .

21) Chaudhuri, D., Datta, J., Majumder, S., Giri, K.

Peptide based vaccine designing against endemic causing mammarenavirus using re

(2024) *Archives of Microbiology*, 206 (5), art. no. 217, .

22) Ahmad, S., Demneh, F.M., Rehman, B., Almana, T.N., Akhtar, N., Pazoki-Toroudi, H., Shoj Sanami, S.

In silico design of a novel multi-epitope vaccine against HCV infection through immu

(2024) *International Journal of Biological Macromolecules*, 267, art. no. 131517, .

23) da Silva, M.K., de Aquino, J.G.F., de Oliveira, C.B.S., Rodrigues-Neto, J.F., Rahman, M., Ak Y.A., Ibenmoussa, S., Oliveira, J.I.N.

Computational antigenic insights into the novel NADC-34-like Porcine Reproductive a Virus (PRRSV) isolate YC-2020

(2024) *Veterinary Immunology and Immunopathology*, 271, art. no. 110754, .

24) Salauddin, M., Kayesh, M.E.H., Ahammed, M.S., Saha, S., Hossain, M.G.

Development of membrane protein-based vaccine against lumpy skin disease virus (l immunoinformatic tools

(2024) *Veterinary Medicine and Science*, 10 (3), art. no. e1438, .

25) Akter, A., Ananna, N.F., Ullah, H., Islam, S., Al Amin, M., Kibria, K.M.K., Mahmud, S.

Computational approach for identifying immunogenic epitopes and optimizing peptid cloning against *Mycoplasma genitalium*

(2024) *Heliyon*, 10 (7), art. no. e28223, .

26) de Araújo, L.P., de Melo Santos, N.C., Corsetti, P.P., de Almeida, L.A.

Immunoinformatic Approach for Rational Identification of Immunogenic Peptides Aga Mpox Proteins and Potential Multiepitope Vaccine Construction

(2024) *Journal of Infectious Diseases*, 229, pp. S285-S292.

- 27) Köseoğlu, A.E., Özgül, F., Işıksal, E.N., Şeflekçi, Y., Tülümen, D., Özgültekin, B., Deniz Köse M., Ekenoğlu Merdan, Y.

In silico discovery of diagnostic/vaccine candidate antigenic epitopes and a multi-epi design for the brain-eating amoeba *Naegleria fowleri* causing human meningitis
(2024) *Gene*, 902, art. no. 148192, .

- 28) Rizarullah, N., Aditama, R., Giri-Rachman, E.A., Hertadi, R.

Designing a Novel Multiepitope Vaccine from the Human Papilloma Virus E1 and E2 P Immunoinformatics and Molecular Dynamics Approaches
(2024) *ACS Omega*, 9 (14), pp. 16547-16562.

- 29) Samudrala, M., Dhaveji, S., Savsani, K., Dakshanamurthy, S.

AutoEpiCollect, a Novel Machine Learning-Based GUI Software for Vaccine Design: A Vaccine Design Targeting PIK3CA Neoantigens
(2024) *Bioengineering*, 11 (4), art. no. 322, .

- 30) Bautista, E., Jung, Y.H., Jaramillo, M., Ganesh, H., Varma, A., Savsani, K., Dakshanamurthy

AutoPepVax, a Novel Machine-Learning-Based Program for Vaccine Design: Application Targeting EGFR Missense Mutations
(2024) *Pharmaceuticals*, 17 (4), art. no. 419, .

- 31) Saha, O., Razzak, A., Sarker, N., Rahman, N., Zahid, A.B., Sultana, A., Shishir, T.A., Bahadur Hossen, F., Amin, M.R., Akter, M.S.

In silico design and evaluation of multi-epitope dengue virus vaccines: a promising approach to reduce dengue burden
(2024) *Discover Applied Sciences*, 6 (4), art. no. 210, .

- 32) Trujillo, E., Villegas-Zagal, R., Ramos-Vega, A., Bañuelos-Hernández, B., Angulo, C., Monreal

Genetic-engineered *Schizochytrium* sp. expressing a multiepitopic protein based on viral toxins triggers immune responses in mice
(2024) *Algal Research*, 79, art. no. 103440, .

- 33) Suleman, M., Khan, T.A., Ejaz, H., Maroof, S., Alshammari, A., Albekairi, N.A., Khan, H., Waheed, S., Crovella, S.

Structural vaccinology, molecular simulation and immune simulation approaches to vaccine design

against John Cunningham virus

(2024) *Microbial Pathogenesis*, 189, art. no. 106572, .

34) Nora, L., Khadidja, B.

New potent vaccine against brucellosis based on multi-epitope prediction method of
(2024) *Vacunas*, 25 (2), pp. 161-173.

35) Alsaiani, A.A., Hakami, M.A., Alotaibi, B.S., Alkhalil, S.S., Hazazi, A., Alkhorayef, N., Jalal, K.

Rational design of multi-epitope-based vaccine by exploring all dengue virus serotype immunoinformatic approach
(2024) *Immunologic Research*, 72 (2), pp. 242-259.

36) Ali, Z., Cardoza, J.V., Basak, S., Narsaria, U., Bhattacharjee, S., G, U.M., Isaac, S.P., Francis George, S.S.

A Multi-epitope Vaccine Candidate Against Bolivian Hemorrhagic fever Caused by Marburg Virus
(2024) *Applied Biochemistry and Biotechnology*, 196 (4), pp. 2137-2160.

37) Rad, P.M., Rahbarnia, L., Safary, A., ShadiDizaji, A., Maani, Z.

The Synthetic Antimicrobial Peptide Derived From Melittin Displays Low Toxicity and High Antimicrobial Activity
(2024) *Probiotics and Antimicrobial Proteins*, 16 (2), pp. 490-500.

38) Naha, A., Ramaiah, S.

Novel Antimicrobial Peptide SAAP Mutant as a Better Adjuvant to Sulbactam-Based Tetracycline Strains of XDR Acinetobacter baumannii
(2024) *Probiotics and Antimicrobial Proteins*, 16 (2), pp. 459-473.

39) Yazdani, Z., Rafiei, A., Ghoreyshi, M., Abediankenari, S.

In Silico Analysis of a Candidate Multi-epitope Peptide Vaccine Against Human Brucella
(2024) *Molecular Biotechnology*, 66 (4), pp. 769-783.

40) Wadapurkar, R., Singh, S., Singh, A.

Leveraging the immunoinformatics approach for designing the SARS-CoV-2 omicron-mRNA vaccine
(2024) *Vaccine*, 42 (7), pp. 1630-1647.

- 41) Favaro, M.T.P., Alamo, P., Roher, N., Chillon, M., Lascorz, J., Márquez, M., Corchero, J.L., Ferrer-Miralles, N., Ferreira, L.C.S., Mangues, R., Vázquez, E., Parladé, E., Villaverde, A.

Zinc-Assisted Microscale Granules Made of the SARS-CoV-2 Spike Protein Trigger Ne Responses

(2024) *ACS Materials Letters*, 6 (3), pp. 954-962.

- 42) Sefid, F., Payandeh, Z., Khalili, S., Hashemi, Z.S., Zakeri, A., Alagheband Bahrami, A., Kalai Pourzardosht, N.

In Silico Characterization of Epitopes for Vaccine Design against Escherichia coli bas Protein

(2024) *Journal of Applied Biotechnology Reports*, 11 (1), pp. 1207-1219.

- 43) Doneva, N., Dimitrov, I.

Viral Immunogenicity Prediction by Machine Learning Methods

(2024) *International Journal of Molecular Sciences*, 25 (5), art. no. 2949, .

- 44) Kumar, R., Kim, J.-M.

Veterinary systems biology for bridging the phenotype–genotype gap via computational epidemiology and animal welfare

(2024) *Briefings in Bioinformatics*, 25 (2), art. no. bbae025, .

- 45) Dehghani, A., Mamizadeh, M., Karimi, A., Hosseini, S.A., Siamian, D., Shams, M., Ghiabi, S

Multi-epitope vaccine design against leishmaniasis using IFN- γ inducing epitopes from g63 proteins

(2024) *Journal of Genetic Engineering and Biotechnology*, 22 (1), art. no. 100355, .

- 46) Khalid, S., Guo, J., Muhammad, S.A., Bai, B.

Designing, cloning and simulation studies of cancer/testis antigens based multi-epitope against cutaneous melanoma: An immunoinformatics approach

(2024) *Biochemistry and Biophysics Reports*, 37, art. no. 101651, .

- 47) Naveed, M., Ali, U., Aziz, T., Naveed, R., Mahmood, S., Khan, M.M., Alharbi, M., Albekairi, T

An Aedes–Anopheles Vaccine Candidate Supplemented with BCG Epitopes Against the

Genera to Overcome Hypersensitivity to Mosquito Bites

(2024) *Acta Parasitologica*, 69 (1), pp. 483-504.

- 48) Zeng, Q., Sun, Y., Lai, P., Huang, M., Peng, X., Huang, J., Chen, Q., Chen, Y., Wang, H.

Identification of a potential antigen stimulating immune response against *Vibrio paratyphi* hybrid tilapia (*Oreochromis aureus*♂ × *Oreochromis niloticus*♀)

(2024) *Journal of Fish Diseases*, 47 (3), art. no. e13904, .

- 49) Kizhakedathil, M.P.J., Jain, M., Govindaraj, S., Sundararaju, A., Vijayakumar, K., Karuppusa

Design of a Chimeric Vaccine Targeting OPA Protein of *Neisseria gonorrhoeae* – An In

(2024) *Biointerface Research in Applied Chemistry*, 14 (1), art. no. 25, .

- 50) Lee, J.-J., Abdullah, M., Liu, J., Carvalho, I.A., Junior, A.S., Moreira, M.A.S., Mohammed, H. S.P., Chang, Y.-F.

Proteomic profiling of membrane vesicles from *Mycobacterium avium* subsp. *paratuberculosis* and an in silico design of a multi-epitope vaccine targeting membrane vesicle proteins

(2024) *Journal of Proteomics*, 292, art. no. 105058, .

- 51) Martinez, G.S., Dutt, M., Kelvin, D.J., Kumar, A.

PoxiPred: An Artificial-Intelligence-Based Method for the Prediction of Potential Antigens to Accelerate Vaccine Development Efforts against Poxviruses

(2024) *Biology*, 13 (2), art. no. 125, .

- 52) Maulana, F.K., Handijatno, D.

Computational Evaluation of the B-Cell Epitope of 37-kDa Outer Membrane Protein H from *Nusa Tenggara Timur*, Indonesia

(2024) *Iranian Journal of Veterinary Science and Technology*, 16 (1), pp. 19-26.

- 53) Habib, A., Liang, Y., Xu, X., Zhu, N., Xie, J.

Immunoinformatic Identification of Multiple Epitopes of gp120 Protein of HIV-1 to Enhance against HIV-1 Infection

(2024) *International Journal of Molecular Sciences*, 25 (4), art. no. 2432, .

- 54) Liang, S., Zhang, S., Bao, Y., Zhang, Y., Liu, X., Yao, H., Liu, G.

**Combined Immunoinformatics to Design and Evaluate a Multi-Epitope Vaccine Candidate
suis Infection**

(2024) *Vaccines*, 12 (2), art. no. 137, .

- 55) Chavda, V.P., Ghali, E.N.H.K., Balar, P.C., Chauhan, S.C., Tiwari, N., Shukla, S., Athalye, M V., Yallapu, M.M.

Protein subunit vaccines: Promising frontiers against COVID-19

(2024) *Journal of Controlled Release*, 366, pp. 761-782.

- 56) Köseoğlu, A.E., Can, H., Güvendi, M., Erkunt Alak, S., Değirmenci Döşkaya, A., Karakavuk,

**Molecular characterization of Anaplasma ovis Msp4 protein in strains isolated from ti
synthetic vaccine antigen design against Anaplasma ovis using immunoinformatic to**

(2024) *Biologicals*, 85, art. no. 101749, .

- 57) Asadollahi, P., Kalani, B.S.

Novel toxin-based mRNA vaccine against Clostridium perfringens using in silico app

(2024) *Toxicon*, 238, art. no. 107584, .

- 58) Bahadori, Z., Shafaghi, M., Sabzevari, J., Madanchi, H., Ranjbar, M.M., Mousavi, S.F., Shab

**Design, development, and assessment of a novel multi-peptide vaccine targeting Psp
Streptococcus pneumoniae**

(2024) *International Journal of Biological Macromolecules*, 258, art. no. 128924, .

- 59) Dhanushkumar, T., Selvam, P.K., M E, S., Vasudevan, K., C, G.P.D., Zayed, H., Kamaraj, B.

Rational design of a multivalent vaccine targeting arthropod-borne viruses using reve

(2024) *International Journal of Biological Macromolecules*, 258, art. no. 128753, .

- 60) Khan, A., Khanzada, M.H., Khan, K., Jalal, K., Uddin, R.

**Integrating core subtractive proteomics and reverse vaccinology for multi-epitope va
Rickettsia prowazekii endemic typhus**

(2024) *Immunologic Research*, 72 (1), pp. 82-95.

- 61) Wang, Y., Wu, A., Xu, Z., Zhang, H., Li, H., Fu, S., Liu, Y., Cui, L., Miao, Y., Wang, Y., Zhuma
Chen, C.

A multi-epitope subunit vaccine based on CU/ZN-SOD, OMP31 and BP26 against Brucella BALB/C mice

(2024) *International Immunopharmacology*, 127, art. no. 111351, .

- 62) Rabienia, M., Mortazavidehkordi, N., Roudbari, Z., Daneshi, R., Abdollahi, A., Langeroudi, M.

Designing of a new multi-epitope vaccine against Leishmania major using Leish-F1 epitopes

(2024) *PLoS ONE*, 19 (1 January), art. no. e0295495, .

- 63) Roja, B., Chellapandi, P.

Design and characterization of a multi-epitope vaccine against Clostridium botulinum in humans

(2024) *Gene*, 892, art. no. 147865, .

- 64) Dolley, A., Goswami, H.B., Dowerah, D., Dey, U., Kumar, A., Hmuaka, V., Mukhopadhyay, R., Doley, R., Chandra Deka, R., Namsa, N.D.

Reverse vaccinology and immunoinformatics approach to design a chimeric epitope vaccine against tsutsugamushi

(2024) *Heliyon*, 10 (1), art. no. e23616, .

- 65) Nguyen, T.L., Kim, H.

Designing a Multiepitope Vaccine against Eastern Equine Encephalitis Virus: Immunological and Computational Approaches

(2024) *ACS Omega*, 9 (1), pp. 1092-1105.

- 66) Feng, Y., Yi, J., Yang, L., Wang, Y., Wen, J., Zhao, W., Kim, P., Zhou, X.

COV2Var, a function annotation database of SARS-CoV-2 genetic variation

(2024) *Nucleic Acids Research*, 52 (D1), pp. D701-D713.

- 67) Margaroni, M., Tsanaktsidou, E., Agallou, M., Kiparissides, C., Kammona, O., Karagouni, E.

Development of a novel squalene/ α -tocopherol-based self-emulsified nanoemulsion in combination with peptides for induction of antigen-specific immune responses

(2024) *International Journal of Pharmaceutics*, 649, art. no. 123621, .

- 68) Agarwal, S., Harsukhbhai Chandpa, H., Naskar, S., Lal Meena, C., Kumar Panda, A., Meena, S.

Dominant B cell-T cell epitopes instigated robust immune response in-silico against Scrub typhus
(2024) *Vaccine*, .

69) Asadi, M., Soltani-Fard, E., Vosough, P., Hajighahramani, N., Savardashtaki, A., Nezafat, N.

Designing a Self-Assembled Peptide Nano-vaccine Against Staphylococcus aureus: A Novel Approach
(2024) *BioNanoScience*, .

70) Ghaffar, S.A., Tahir, H., Muhammad, S., Shahid, M., Naqqash, T., Faisal, M., Albekairi, T.H., Manzoor, I.

Designing of a multi-epitopes based vaccine against Haemophilus parainfluenzae an integrated computational approaches
(2024) *Frontiers in Immunology*, 15, art. no. 1380732, .

71) Dastidar, D.G., Roy, K., Bhattacharya, D., Das, A.

Modern Computational Tools for Vaccine Engineering
(2024) *Exploring Medical Biotechnology - In Vivo, In Vitro, In Silico: Biotechnology from Lab. to Clinical*, pp. 66-78.

72) Mortazavi, B., Molaei, A., Fard, N.A.

Multi-epitope vaccines, from design to expression; an in silico approach
(2024) *Human Immunology*, art. no. 110804, .

73) Naskar, S., Harsukhbhai Chandpa, H., Agarwal, S., Meena, J.

Super epitope dengue vaccine instigated serotype independent immune protection in mice
(2024) *Vaccine*, .

74) Lu, Q., Wu, H., Meng, J., Wang, J., Wu, J., Liu, S., Tong, J., Nie, J., Huang, W.

Multi-epitope vaccine design for hepatitis E virus based on protein ORF2 and ORF3
(2024) *Frontiers in Microbiology*, 15, art. no. 1372069, .

75) Oladipo, E.K., Obisanya, O.I., Owoeye, V.O., Shittu, O.G., Adamitonde, M.G., Ikwuka, E.C., Adedokun, F.A., Adedokun, A.A., Oyedepo, T.A., Onyeaka, H.

Immunoinformatics assisted design of a multi-epitope kit for detecting Cronobacter

formula

(2024) *Food Quality and Safety*, 8, art. no. fyae005, .

- 76) He, Z., Wang, C., Guo, X., Sun, H., Bi, Y., Pitt, M.E., Li, C., Song, J., Coin, L.J.M., Li, F.

MERITS: a web-based integrated Mycobacterial PE/PPE protein database

(2024) *Bioinformatics Advances*, 4 (1), art. no. vbae035, .

- 77) Zarei, M., Abedini, B., Dehshahri, A., Negahdaripour, M.

Peptide Engineering Approach to Introduce an Improved Calcitonin Mutant

(2024) *Molecular Biology*, .

- 78) Devarakonda, Y., Rajratna, A.D., Ray, A., Syal, K.

Novel edible multi-epitope vaccine construct against *Enterococcus faecalis*

(2024) *Nucleus (India)*, .

- 79) Alawam, A.S., Alwethaynani, M.S.

Construction of an aerolysin-based multi-epitope vaccine against *Aeromonas hydrophila* using machine learning and artificial intelligence-supported approach

(2024) *Frontiers in Immunology*, 15, art. no. 1369890, .

- 80) Tan, C., Zhou, J., Wu, A., Li, C.

In silico development of a novel anti-mutation, multi-epitope mRNA vaccine against *Mycobacterium tuberculosis* H37Rv lineage and sub-lineages by using immunoinformatics approaches

(2024) *Journal of Biomolecular Structure and Dynamics*, .

- 81) Kumari, K., Dey, J., Mahapatra, S.R., Ma, Y., Sharma, P.K., Misra, N., Singh, R.P.

Protein profiling and immunoinformatic analysis of the secretome of a metal-resistant *Pseudomonas aeruginosa* S-8

(2024) *Folia Microbiologica*, .

- 82) Fatima, I., Alshabirmi, F.M., Aziz, T., Alamri, A.S., Alhomrani, M., Alghamdi, S., Alghuraybi, R., Bamagous, G.A., Alhindi, Z., Dabool, A.S., Alhhazmi, A.A., Alruways, M.W.

Revolutionizing and identifying novel drug targets in *Citrobacter koseri* via subtractive proteomics

development of a multi-epitope vaccine using reverse vaccinology and immuno-informat
(2024) *Journal of Biomolecular Structure and Dynamics*, .

83) Ahmad, S., Verli, H.

In silico Identification of Drug Targets and Vaccine Candidates against Bartonella qui
Proteomics Approach

(2024) *Memorias do Instituto Oswaldo Cruz*, 119, .

84) Prakoso, I., Iryanto, A.P., Rahayu, T., Rahma, A., Rizqi, M.N.A.A., Kharisma, V.D., Ansori, A. Derkho, M., Natalia, B., Anna, R., Jakhmola, V., Zainul, R.

Multi-epitopes Vaccine Design against Klebsiella pneumoniae based on Outer Membr
Immunoinformatics Approaches

(2024) *Research Journal of Pharmacy and Technology*, 17 (1), pp. 11-18.

85) Malekzadeh, P., Hosseini, S.H., Shahbakhsh, M., Shayan, P., Zibaei, M., Jamshidi, S., Rism Akrami, M., Jalousian, F.

Preliminary study of Toxocara canis Recombinant C-type Lectin as a suitable antigen
toxocariasis

(2024) *Journal of Zoonotic Diseases*, 8 (1), pp. 422-435.

86) Musundi, S.D., Gitaka, J., Kanoi, B.N.

Identification of conserved cross-species B-cell linear epitopes in human malaria: a s
immuno-informatics approach targeting merozoite stage proteins

(2024) *Frontiers in Immunology*, 15, art. no. 1352618, .

87) Munna, M.M.R., Islam, M.A., Shanta, S.S., Monty, M.A.

Structural, functional, molecular docking analysis of a hypothetical protein from Talai
molecular dynamic simulation: an in-silico approach

(2024) *Journal of Biomolecular Structure and Dynamics*, .

88) Aiman, S., Farooq, Q.U.A., Han, Z., Aslam, M., Zhang, J., Khan, A., Ahmad, A., Li, C., Ali, Y.

Core-genome-mediated promising alternative drug and multi-epitope vaccine targets
infectious Clostridium difficile

(2024) *PLoS ONE*, 19 (1 January), art. no. e0293731, .

- 89) Safari, N., Khodaei Ardakan, A., Hamed, E., Kalantarzadeh, F., Kaveh, P., Rahmanian, P., C Siamian, D., Gorgipour, M., Zandieh, M.A.

An in silico approach to decipher immunogenic epitopes in *Toxoplasma gondii* GRA1
(2024) *Informatics in Medicine Unlocked*, 44, art. no. 101435, .

- 90) Sakib, M.S., Ullah, H., Khanam, R., Sharfaraz, A., Al Ashik, S.A., Tripura, S., Kibria, K.M.K.,

Exploring dengue genome to design effective multi epitope-based peptide vaccine by against all serotypes of dengue virus
(2024) *Informatics in Medicine Unlocked*, 44, art. no. 101437, .

- 91) Aziz, T., Naveed, M., Shabbir, M.A., Jabeen, K., Tzora, A.S., Bonos, E., Skoufos, I., Alharbi, A.

Revolutionizing the virulent protein Internalin a in *Listeria monocytogenes* and design vaccine via immunoinformatic approaches
(2024) *CYTA - Journal of Food*, 22 (1), pp. 1-11.

- 92) Alshiekheid, M.A., Dou, A.M., Algahtani, M., Al-Megrin, W.A.I., Alhawday, Y.A., Alradhi, A.E., Algefary, A.N., Alhunayhani, B.A., Allemailem, K.S.

Bioinformatics and immunoinformatics assisted multiepitope vaccine construct again
(2024) *Saudi Pharmaceutical Journal*, 32 (1), art. no. 101917, .

- 93) Masum, M.H.U., Ferdous, J., Lokman, S., Siddiki, A.Z.

Designing of a multiepitope-based chimeric vaccine against dengue virus serotype 3 generation reverse vaccinology approaches
(2024) *Informatics in Medicine Unlocked*, 44, art. no. 101422, .

- 94) Beltrán, J.F., Belén, L.H., Farias, J.G., Zamorano, M., Lefin, N., Miranda, J., Parraguez-Contr

VirusHound-I: prediction of viral proteins involved in the evasion of host adaptive imm
random forest algorithm and generative adversarial network for data augmentation
(2024) *Briefings in Bioinformatics*, 25 (1), art. no. bbad434, .

- 95) Zakaria, M.N.Z., Aththar, A.F., Fai, M., Hamami, S.M.A., Kharisma, V.D., Murtadlo, A.A.A., Al Zainul, R.

A Novel Multi-Epitope Vaccine Design Targeting E1/E2 Envelope Glycoprotein of Chik Immunoinformatics Approach
(2024) *Journal of Medicinal and Chemical Sciences*, 7 (2), pp. 336-351.

96) Mohammadi, S., Pour, S.K., Jalili, S., Barazesh, M.

Designing of a Novel Candidate Multi-epitope Vaccine to boost Immune Responses at Immunoinformatics and Machine Learning based Approach
(2024) *Letters in Drug Design and Discovery*, 21 (2), pp. 356-375.

97) Zamani, M., Nezafat, N., Mokarram, P., Kadkhodaei, B.

Application of Cell Penetrating Peptides for Intracellular Delivery of Endostatin: A Computational Approach
(2024) *Current Computer-Aided Drug Design*, 20 (3), pp. 208-233.

98) Yuan, L., Li, X., Li, M., Bi, R., Li, Y., Song, J., Li, W., Yan, M., Luo, H., Sun, C., Shu, Y.

In silico design of a broad-spectrum multiepitope vaccine against influenza virus
(2024) *International Journal of Biological Macromolecules*, 254, art. no. 128071, .

99) Kootery, K.P., Sarojini, S.

In silico analysis of NHP2 membrane protein, a novel vaccine candidate present in the Mycobacterium tuberculosis
(2024) *Biologia*, 79 (1), pp. 355-372.

100) Farhani, I., Yamchi, A., Madanchi, H., Khazaei, V., Behrouzikhah, M., Abbasi, H., Salehi, M.

Designing a Multi-epitope Vaccine against the SARS-CoV-2 Variant based on an Immune Response
(2024) *Current Computer-Aided Drug Design*, 20 (3), pp. 274-290.

101) Dey, S., Pratibha, M., Singh Dagur, H., Rajakumara, E.

Characterization of host receptor interaction with envelop protein of Kyasanur forest virus and identification of suitable epitopes for vaccine candidate
(2024) *Journal of Biomolecular Structure and Dynamics*, 42 (8), pp. 4110-4120.

102) Ghafoor, D., Zeb, A., Ali, S.S., Ali, M., Akbar, F., Ud Din, Z., Ur Rehman, S., Suleman, M., Khan, M.

Immunoinformatic based designing of potential immunogenic novel mRNA and peptide vaccines against H5N1 and H7N9 avian influenza viruses
(2024) *Journal of Biomolecular Structure and Dynamics*, 42 (7), pp. 3641-3658.

103) Ganji, M., Bakhshi, S., Ahmadi, K., Shoari, A., Moeini, S., Ghaemi, A.

Rational design of B-cell and T-cell multi epitope-based vaccine against Zika virus, a
(2024) *Journal of Biomolecular Structure and Dynamics*, 42 (7), pp. 3426-3440.

104) Ullah, A., ul Haq, M., Iqbal, M., Irfan, M., Khan, S., Muhammad, R., Ullah, A., Khurram, M., Ahmad, S.

A computational quest for identifying potential vaccine candidates against Moraxella
approach
(2024) *Journal of Biomolecular Structure and Dynamics*, 42 (6), pp. 2976-2989.

105) Lahimchi, M.R., Madanchi, H., Ahmadi, K., Shahbazi, B., Yousefi, B.

In silico designing a novel TLR4-mediating multiepitope vaccine against monkeypox
immunoinformatics and bioinformatics approaches
(2024) *Journal of Biomolecular Structure and Dynamics*, 42 (4), pp. 2094-2110.

106) Dikhit, M.R., Sen, A.

Elucidation of conserved multi-epitope vaccine against Leishmania donovani using
(2024) *Journal of Biomolecular Structure and Dynamics*, 42 (3), pp. 1293-1306.

107) Kumar, P., Kumar, P., Shrivastava, A., Dar, M.A., Lokhande, K.B., Singh, N., Singh, A., Velazquez

Immunoinformatics-based multi-epitope containing fused polypeptide vaccine design
leishmaniasis with high immunogenicity and TLR binding
(2023) *International Journal of Biological Macromolecules*, 253, art. no. 127567, .

108) Shahab, M., Aiman, S., Alshammari, A., Alasmari, A.F., Alharbi, M., Khan, A., Wei, D.-Q., Zia

Immunoinformatics-based potential multi-peptide vaccine designing against Jamestown
capable of eliciting cellular and humoral immune responses
(2023) *International Journal of Biological Macromolecules*, 253, art. no. 126678, .

109) Zhang, G., Han, L., Zhao, Y., Li, Q., Wang, S., Shi, H.

Development and evaluation of a multi-epitope subunit vaccine against Mycoplasma
(2023) *International Journal of Biological Macromolecules*, 253, art. no. 126685, .

- 110) Kolesnikov, I.A., Timofeev, V.I., Ermakov, A.V., Ivanovsky, A.S., Dyakova, Y.A., Pisarevsky,
Search for Potential Epitopes in the Envelope Protein of the African Swine Fever Virus
(2023) *Crystallography Reports*, 68 (6), pp. 967-974.
- 111) Kolesnikov, I.A., Timofeev, V.I., Nikolenko, M.V., Ermakov, A.V., Ivanovsky, A.S., Dyakova, Y.
M.V.
Search for New Potential T-Cell and B-Cell Epitopes in the Spike Protein of SARS-CoV-2
(2023) *Crystallography Reports*, 68 (6), pp. 955-966.
- 112) Almalki, S.S.R., Mir, S.S., Sindi, A.A.A., Alzahrani, M.O., Akhter, N., Alharbi, R.A.
In Silico Prediction of Human Parechovirus Epitope-Based Vaccine Candidates
(2023) *Bahrain Medical Bulletin*, 45 (4), pp. 1734-1747.
- 113) Kupani, M., Pandey, R.K., Vashisht, S., Singh, S., Prajapati, V.K., Mehrotra, S.
Prediction of an immunogenic peptide ensemble and multi-subunit vaccine for Visceral leishmaniasis using bioinformatics approaches
(2023) *Heliyon*, 9 (12), art. no. e22121, .
- 114) Anwar, T., Ismail, S., Parvaiz, F., Abbasi, S.W., Al-Abbasi, F.A., Alghamdi, A.M., Al-Regaiey, Bashir, S., Waheed, Y.
Computational design of experimentally validated multi-epitopes vaccine against hepatitis B virus using an immunological approach
(2023) *PLoS ONE*, 18 (12 December), art. no. e0294663, .
- 115) Sulfianti, A., Karimah, N., Nurhasanah, A.
In silico analysis of HLA-1 and HLA-2 recognition of a designed recombinant human protein on L1 protein HPV subtype 45
(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 167, .
- 116) Nahian, M., Shahab, M., Mazumder, L., Oliveira, J.I.N., Banu, T.A., Sarkar, M.H., Goswami S.
In silico design of an epitope-based vaccine against PspC in Streptococcus pneumoniae
(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 166, .

117) Hossen, M.S., Hasan, M.N., Haque, M., Al Arian, T., Halder, S.K., Uddin, M.J., Abdullah-Al-

Immunoinformatics-aided rational design of multiepitope-based peptide vaccine (ME parainfluenza virus 3 (HPIV-3) stable proteins

(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 162, .

118) Mao, Y., Xiao, X., Zhang, J., Mou, X., Zhao, W.

Designing a multi-epitope vaccine against *Peptostreptococcus anaerobius* based on approach

(2023) *Synthetic and Systems Biotechnology*, 8 (4), pp. 757-770.

119) Hashemzadeh, P., nezhad, S.A., Khoshkhabar, H.

Immunoinformatics analysis of *Brucella melitensis* to approach a suitable vaccine a

(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 152, .

120) Elalouf, A., Kedarya, T., Elalouf, H., Rosenfeld, A.

Computational design and evaluation of mRNA- and protein-based conjugate vaccin CoV-2 viruses

(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 120, .

121) Shahbazi, S., Habibi, M., Badmasti, F., Sabzi, S., Farokhi, M., Asadi Karam, M.R.

Design and fabrication of a vaccine candidate based on rOmpA from *Klebsiella pneu* fibroin-sodium alginate nanoparticles against pneumonia infection

(2023) *International Immunopharmacology*, 125, art. no. 111171, .

122) Jazi, M.A., Chirani, A.S., Hajikhani, B., Ebrahimipour, G., Goudarzi, M.

Unraveling the immunopotential of *P. aeruginosa* PAPI-1 encoded pilin: From imm active immunization

(2023) *International Immunopharmacology*, 125, art. no. 111197, .

123) Muhammad, A.M., Salum, G.M., Meguid, M.A.E., Fotouh, B.E., Dawood, R.M.

Bioinformatics analysis of multi-epitope peptide vaccines against Hepatitis C virus:

(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 117, .

124)

Mahnoor, I., Shabbir, H., Nawaz, S., Aziz, K., Aziz, U., Khalid, K., Irum, S., Andleeb, S.

Characterization of exclusively non-commensal *Neisseria gonorrhoeae* pangenome to pr and thermodynamically stable vaccine candidates using immune-molecular dynamic sim
(2023) *Microbial Pathogenesis*, 185, art. no. 106439, .

125) Basmenj, E.R., Arastonejad, M., Mamizadeh, M., Alem, M., KhalatbariLimaki, M., Ghiabi, S Shams, M., Irannejad, H.

Engineering and design of promising T-cell-based multi-epitope vaccine candidates
(2023) *Scientific Reports*, 13 (1), art. no. 19421, .

126) Albutti, A.

An integrated multi-pronged reverse vaccinology and biophysical approaches for id candidates against Nipah virus
(2023) *Saudi Pharmaceutical Journal*, 31 (12), art. no. 101826, .

127) Elalouf, A., Yaniv-Rosenfeld, A.

Immunoinformatic-guided designing and evaluating protein and mRNA-based vaccir neoformans for immunocompromised patients
(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 108, .

128) Mashhadi Abolghasem Shirazi, M., Sadat, S.M., Haghighat, S., Roohvand, F., Arashkia, A.

Alum and a TLR7 agonist combined with built-in TLR4 and 5 agonists synergistically against HPV RG1 epitope
(2023) *Scientific Reports*, 13 (1), art. no. 16801, .

129) Velusamy, S., Abuthakir Mohamed Husain, S., Masood Khan, J., Ahmad, A., Muthusamy, J

Vaccine candidates for cellulitis from *Staphylococcus aureus* and *Streptococcus py*
(2023) *Journal of King Saud University - Science*, 35 (9), art. no. 102917, .

130) Kumar, C., Shrivastava, K., Singh, A., Chauhan, V., Giri, A., Gupta, S., Sharma, N.K., Bose

Expression of mammalian cell entry genes in clinical isolates of *M. tuberculosis* and immunological reactivity of the Rv0590A protein
(2023) *Medical Microbiology and Immunology*, 212 (6), pp. 407-419.

131) Guo, X., Pan, X., Sun, Q., Hu, Y., Shi, J.

Design of a novel multiepitope vaccine against *Chlamydia pneumoniae* using the ex
(2023) *Scientific Reports*, 13 (1), art. no. 15070, .

132) Pritam, M.

Exploring the whole proteome of monkeypox virus to design B cell epitope-based or immunoinformatics approaches
(2023) *International Journal of Biological Macromolecules*, 252, art. no. 126498, .

133) Ramprasad, S.V., Rajakumar, S., Srinivasan, S., Susha, D., Sharma, S., Chourasiya, R.

Computer-Aided Multi-Epitope Based Vaccine Design Against Monkeypox Virus Sur Immunoinformatics Approach
(2023) *Protein Journal*, 42 (6), pp. 645-663.

134) Alam, R., Samad, A., Ahammad, F., Nur, S.M., Alsaieri, A.A., Imon, R.R., Talukder, M.E.K., Mohammad, F., Karpiński, T.M.

In silico formulation of a next-generation multiepitope vaccine for use as a prophyl Congo hemorrhagic fever
(2023) *BMC Medicine*, 21 (1), art. no. 36, .

135) Priyamvada, P., Ramaiah, S.

Pan-genome and reverse vaccinology approaches to design multi-epitope vaccine associated with colorectal cancer
(2023) *Immunologic Research*, 71 (6), pp. 887-908.

136) Heidarinia, H., Tajbakhsh, E., Rostamian, M., Momtaz, H.

Two peptides derivate from *Acinetobacter baumannii* outer membrane protein K as v comprehensive in silico study
(2023) *BMC Research Notes*, 16 (1), art. no. 128, .

137) Moin, A.T., Ullah, M.A., Patil, R.B., Faruqui, N.A., Araf, Y., Das, S., Uddin, K.M.K., Hossain, Chowdhury, D.U.S., Islam, S.

A computational approach to design a polyvalent vaccine against human respiratory
(2023) *Scientific Reports*, 13 (1), art. no. 9702, .

138) Sher, H., Sharif, H., Zaheer, T., Khan, S.A., Ali, A., Javed, H., Javed, A.

**Employing computational tools to design a multi-epitope vaccine targeting human ir
1)**

(2023) *BMC Genomics*, 24 (1), art. no. 276, .

139) Firdaus, M.E.R., Mustopa, A.Z., Ekawati, N., Chairunnisa, S., Arifah, R.K., Hertati, A., Irawa
Kusumawati, A., Nurfatwa, M.

**Optimization, characterization, comparison of self-assembly VLP of capsid protein L
vaccinology design against human papillomavirus type 52**

(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 68, .

140) Mazumder, L., Shahab, M., Islam, S., Begum, M., Oliveira, J.I.N., Begum, S., Akter, S.

An immunoinformatics approach to epitope-based vaccine design against PspA in S

(2023) *Journal of Genetic Engineering and Biotechnology*, 21 (1), art. no. 57, .

141) Rafi, M.O., Al-Khafaji, K., Mandal, S.M., Meghla, N.S., Biswas, P.K., Rahman, M.S.

A subunit vaccine against pneumonia: targeting *Streptococcus pneumoniae* and Kle

(2023) *Network Modeling Analysis in Health Informatics and Bioinformatics*, 12 (1), art. no.

142) Sahu, L.K., Singh, K.

**Cross-variant proof predictive vaccine design based on SARS-CoV-2 spike protein u
approach**

(2023) *Beni-Suef University Journal of Basic and Applied Sciences*, 12 (1), art. no. 5, .

143) Evangelista, F.M.D., van Vliet, A.H.M., Lawton, S.P., Betson, M.

In silico design of a polypeptide as a vaccine candidate against ascariasis

(2023) *Scientific Reports*, 13 (1), art. no. 3504, .

144) Motamedi, H., Ari, M.M., Shahlaei, M., Moradi, S., Farhadikia, P., Alvandi, A., Abiri, R.

**Designing multi-epitope vaccine against important colorectal cancer (CRC) associat
immunoinformatics approach**

(2023) *BMC Bioinformatics*, 24 (1), art. no. 65, .

145) Shafaghi, M., Bahadori, Z., Madanchi, H., Ranjbar, M.M., Shabani, A.A., Mousavi, S.F.

Immunoinformatics-aided design of a new multi-epitope vaccine adjuvanted with do Streptococcus pneumoniae strains

(2023) *BMC Bioinformatics*, 24 (1), art. no. 67, .

146) Beikzadeh, B.

Immunoinformatics design of multi-epitope vaccine using OmpA, OmpD and enterot salmonellosis

(2023) *BMC Bioinformatics*, 24 (1), art. no. 63, .

147) Afshari, E., Cohan, R.A., Sotoodehnejadmatalahi, F., Mousavi, S.F.

In-silico design and evaluation of an epitope-based serotype-independent promising cross-reactive regions of pneumococcal surface protein A

(2023) *Journal of Translational Medicine*, 21 (1), art. no. 13, .

148) Das, K.C., Konhar, R., Biswal, D.K.

Fasciola gigantica vaccine construct: an in silico approach towards identification an subunit vaccine using calcium binding EF-hand proteins

(2023) *BMC Immunology*, 24 (1), art. no. 1, .

149) AlChalabi, R., Al-Rahim, A., Omer, D., Suleiman, A.A.J.

Immunoinformatics design of multi-epitope peptide-based vaccine against Haemoph cell division protein

(2023) *Network Modeling Analysis in Health Informatics and Bioinformatics*, 12 (1), art. no.

150) Panda, M., Kalita, E., Singh, S., Kumar, K., Prajapati, V.K.

Nanobody-peptide-conjugate (NPC) for passive immunotherapy against SARS-CoV-2 prospective pan-coronavirus therapeutics

(2023) *Molecular Diversity*, 27 (6), pp. 2577-2603.

151) Shah, M., Jaan, S., Shehroz, M., Sarfraz, A., Asad, K., Wara, T.U., Zaman, A., Ullah, R., Ali

Deciphering the Immunogenicity of Monkeypox Proteins for Designing the Potential

(2023) *ACS Omega*, 8 (45), pp. 43341-43355.

152) Ishwarlall, T.Z., Adeleke, V.T., Maharaj, L., Okpeku, M., Adeniyi, A.A., Adeleke, M.A.

Multi-epitope vaccine candidates based on mycobacterial membrane protein large (MMP) of *Mycobacterium ulcerans*

(2023) *Open Biology*, 13 (11), art. no. 230330, .

153) Mizaeva, T., Alieva, K., Zulkarneev, E., Kurpe, S., Isakova, K., Matrosova, S., Borvinskaya, S.

Antibacterial Activity of Rainbow Trout Plasma: In Vitro Assays and Proteomic Analysis

(2023) *Animals*, 13 (22), art. no. 3565, .

154) Aiman, S., Ahmad, A., Khan, A., Ali, Y., Malik, A., Alkholief, M., Akhtar, S., Khan, R.S., Li, C.

Vaccinomics-aided next-generation novel multi-epitope-based vaccine engineering against *Shigella Sonnei*: Immunoinformatics and chemoinformatics approaches

(2023) *PLoS ONE*, 18 (11 November), art. no. e0289773, .

155) Arfat, Y., Zafar, I., Sehgal, S.A., Ayaz, M., Sajid, M., Khan, J.M., Ahsan, M., Rather, M.A., Khan, S., Nepovimova, E., Kuca, K., Sharma, R.

In silico designing of multiepitope-based-peptide (MBP) vaccine against MAPK protein in Zebrafish

(2023) *Heliyon*, 9 (11), art. no. e22204, .

156) Chaudhuri, D., Majumder, S., Datta, J., Giri, K.

In silico designing of an epitope-based peptide vaccine cocktail against Nipah virus: An epidemiological study

(2023) *Archives of Microbiology*, 205 (12), art. no. 380, .

157) Koçkaya, E.S., Can, H., Yaman, Y., Ün, C.

In silico discovery of epitopes of gag and env proteins for the development of a multiepitope vaccine against Maedi Visna Virus using reverse vaccinology approach

(2023) *Biologicals*, 84, art. no. 101715, .

158) Luciani, M., Krasteva, I., Di Febo, T., Perletta, F., D'Onofrio, F., De Massis, F., D'Alterio, N.,

Proteomics and bioinformatics investigations to improve serological diagnosis of COVID-19

(2023) *Proteomics - Clinical Applications*, 17 (6), art. no. 2200116, .

159) Carnero-Morán, A., Oleaga, A., Cano-Argüelles, A.L., Pérez-Sánchez, R.

Function-guided selection of salivary antigens from *Ornithodoros erraticus* argasid tick and its protective efficacy in rabbits

(2023) *Ticks and Tick-borne Diseases*, 14 (6), art. no. 102218, .

160) Zhang, J., Sun, B., Shen, W., Wang, Z., Liu, Y., Sun, Y., Zhang, J., Liu, R., Wang, Y., Bai, T., Zhang, X., Yang, S., Sun, Y., Jiang, D., Yang, K.

In Silico Analyses, Experimental Verification and Application in DNA Vaccines of Ebola Virus GP II-Restricted Epitopes

(2023) *Vaccines*, 11 (10), art. no. 1620, .

161) da Silva, M.K., Campos, D.M.D.O., Akash, S., Akter, S., Yee, L.C., Fulco, U.L., Oliveira, J.I.

Advances of Reverse Vaccinology for mRNA Vaccine Design against SARS-CoV-2: A Review

(2023) *Viruses*, 15 (10), art. no. 2130, .

162) Khalaj-Hedayati, A., Moosavi, S., Manta, O., Helal, M.H., Ibrahim, M.M., El-Bahy, Z.M., Suq

Identification and In Silico Characterization of a Conserved Peptide on Influenza Hemagglutinin as a Potential Antigen for Universal Influenza Vaccine Development

(2023) *Nanomaterials*, 13 (20), art. no. 2796, .

163) Rakitina, T.V., Smirnova, E.V., Podshivalov, D.D., Timofeev, V.I., Komolov, A.S., Vlaskina, A., Dyakova, Y.A., Kovalchuk, M.V.

An Algorithm for the Development of a Recombinant Antiherpetic Subunit Vaccine C: A Comparative Analysis, AlphaFold2-Based Modeling, and Immunoinformatics

(2023) *Crystals*, 13 (10), art. no. 1416, .

164) Ranganathan, D.D., Ramanathan, K.

Novel multi-epitope vaccine design against *Mycobacterium tuberculosis*: An Immunoinformatics Approach

(2023) *Research Journal of Biotechnology*, 18 (10), pp. 60-68.

165) Abdollahi, S., Raoufi, Z.

A novel vaccine candidate against *A. baumannii* based on a new OmpW family protein characterization, antigenicity and epitope investigation, and in-vivo analysis

(2023) *Microbial Pathogenesis*, 183, art. no. 106317, .

166) Tan, J.H., Ding, H.X., Fong, M.Y., Lau, Y.L.

Genetic diversity and in silico analysis of Plasmodium knowlesi Serine Repeat Antigen in Malaysia

(2023) *Infection, Genetics and Evolution*, 114, art. no. 105490, .

167) Kaur, R., Arora, N., Rawat, S.S., Keshri, A.K., Singh, G., Kumar, R., Prasad, A.

Recognition of immune reactive proteins as a potential multi-epitope vaccine candidate through proteomic approach

(2023) *Journal of Cellular Biochemistry*, 124 (10), pp. 1587-1602.

168) Farzan, M., Farzan, M., Mirzaei, Y., Aiman, S., Azadegan-Dehkordi, F., Bagheri, N.

Immunoinformatics-based multi-epitope vaccine design for the re-emerging monkeypox virus

(2023) *International Immunopharmacology*, 123, art. no. 110725, .

169) Lan, S., Li, Z., Hao, H., Liu, S., Huang, Z., Bai, Y., Li, Y., Yan, X., Gao, P., Chen, S., Chu, Y.

A genome-wide transposon mutagenesis screening identifies LppB as a key factor for *Escherichia coli* bovis colonization and invasion into host cells

(2023) *FASEB Journal*, 37 (10), art. no. e23176, .

170) Değirmenci Döşkaya, A., Can, H., Gül, A., Karakavuk, T., Güvendi, M., Karakavuk, M., Gül, Gürüz, A.Y., Döşkaya, M.

A preliminary study to develop a lateral flow assay using recombinant GRA1 protein for the diagnosis of toxoplasmosis in stray cats

(2023) *Comparative Immunology, Microbiology and Infectious Diseases*, 101, art. no. 1020, .

171) Ramalingam, P.S., Arumugam, S.

Reverse vaccinology and immunoinformatics approaches to design multi-epitope vaccine against KRAS

(2023) *Medical Oncology*, 40 (10), art. no. 283, .

172) Sarkar, A., Santra, D., Sundar Panja, A., Maiti, S.

Immunoinformatics and MD-simulation data suggest that Omicron spike epitopes are better MHC recognition than Delta variant

(2023) *International Immunopharmacology*, 123, art. no. 110636, .

- 173) Oladipo, E.K., Oluwasegun, J.A., Oladunni, T.D., Owoeye, V.O., Obisanya, O.I., Olasinde, **Immunoinformatics aided design of a peptide-based kit for detecting Escherichia coli** (2023) *Journal of Food Safety*, 43 (5), art. no. e13073, .
- 174) Abdul Azeeze, M.S.T., Arivuselvar, R. **Immuno-informatics design of a multimeric epitope peptide-based vaccine against dengue** **inmunoinformático de una vacuna basada en péptidos epítomos multiméricos contra dengue** (2023) *Vacunas*, 24 (4), pp. 380-393.
- 175) Aqsha, Z.M., Dharmawan, M.A., Kharisma, V.D., Ansori, A.N.M., Sumantri, N.I. **Reverse Vaccinology Analysis of B-cell Epitope against Nipah Virus using Fusion Protein** (2023) *Jordan Journal of Pharmaceutical Sciences*, 16 (3), pp. 499-507.
- 176) Srivastava, S., Kolbe, M. **Novel “GaEI Antigenic Patches” Identified by a “Reverse Epitomics” Approach to Design a Vaccine against NIPAH Infection, a Silent Threat to Global Human Health** (2023) *ACS Omega*, 8 (35), pp. 31698-31713.
- 177) da Costa, H.H.M., Bielavsky, M., Orts, D.J.B., Araujo, S., Adriani, P.P., Nogueira, J.S., Astruc, M., Cunha-Junior, J.P., Prudencio, C.R. **Production of Recombinant Zika Virus Envelope Protein by Airlift Bioreactor as a New Strategy** (2023) *International Journal of Molecular Sciences*, 24 (18), art. no. 13955, .
- 178) Alshamrani, S., Mashraqi, M.M., Alzamami, A., Alturki, N.A., Almasoudi, H.H., Alshahrani, M. **Mining Autoimmune-Disorder-Linked Molecular-Mimicry Candidates in Clostridioides difficile** **Mimic-Based Vaccine Design: An In Silico Approach** (2023) *Microorganisms*, 11 (9), art. no. 2300, .
- 179) Mwangi, K., Gachogo, R., Masila, E., Ogali, I., Langat, N., Onywera, R., Malonza, V., West, E. **Draft genome sequences of two strains of Staphylococcus aureus isolated from mangoes** **County, Kenya** (2023) *Microbiology Resource Announcements*, 12 (9), .

180) Moin, A.T., Rani, N.A., Ullah, M.A., Patil, R.B., Robin, T.B., Nawal, N., Zubair, T., Mahamud Khaleque, M.A., Absar, N., Shohael, A.M.

An immunoinformatics and extended molecular dynamics approach for designing a multiple strains of Human T-lymphotropic virus (HTLV)
(2023) *PLoS ONE*, 18 (9 September), art. no. e0287416, .

181) Zaroon, yousaf, N., Aslam, S., Qureshi, S., Bashir, H.

In silico investigation of a novel anti-EGFR scFv-IL-24 fusion protein induces apopto
(2023) *Journal of Molecular Modeling*, 29 (9), art. no. 282, .

182) Rodrigues Rodrigues, R., Freitas Motta, J., Alves Ferreira, M.R., Moreira Júnior, C., Ferreir Andrade Bilhalva, M., Amaral Donassolo, R., Cancela Galvão, C., Silva Martins, F.M., Mas Conceição, F.

Immunization of sheep with a recombinant vaccine containing immunogenic nontox perfringens alpha and beta toxins
(2023) *Microbial Pathogenesis*, 182, art. no. 106269, .

183) Mishra, S.K., Priya, P., Rai, G.P., Haque, R., Shanker, A.

Coevolution based immunoinformatics approach considering variability of epitopes case study using spike protein of SARS-CoV-2
(2023) *Computers in Biology and Medicine*, 163, art. no. 107233, .

184) Matos, A.S., Invenção, M.D.C.V., Moura, I.A.D., Freitas, A.C.D., Batista, M.V.D.A.

Immunoinformatics applications in the development of therapeutic vaccines against infections and cervical cancer
(2023) *Reviews in Medical Virology*, 33 (5), art. no. e2463, .

185) Rezvanirad, A., Habibi, M., Farokhi, M., Asadi Karam, M.R.

Immunogenic Potential and Therapeutic Efficacy of Multi-Epitope Encapsulated Silk Pseudomonas aeruginosa-Mediated Urinary Tract Infections
(2023) *Macromolecular Bioscience*, 23 (9), art. no. 2300074, .

186) Devi, S.B., Kumar, S.

Designing a multi-epitope chimeric protein from different potential targets: A potential vaccine against Plasmodium

(2023) *Molecular and Biochemical Parasitology*, 255, art. no. 111560, .

187) Guarra, F., Colombo, G.

Computational Methods in Immunology and Vaccinology: Design and Development of a Novel Vaccine

(2023) *Journal of Chemical Theory and Computation*, 19 (16), pp. 5315-5333.

188) Shukla, N., Srivastava, N., Gupta, R., Srivastava, P., Narayan, J.

COVID Variants, Villain and Victory: A Bioinformatics Perspective

(2023) *Microorganisms*, 11 (8), art. no. 2039, .

189) Paul, B., Alam, J., Hossain, M.M.K., Hoque, S.F., Bappy, M.N.I., Akter, H., Ahmed, N., Akter, M.M., Parvej, M.S., Sarkar, S., Ghosh, H., Hasan, M., Ashour, H.M., Rahman, M.M.

Immunoinformatics for Novel Multi-Epitope Vaccine Development in Canine Parvovirus

(2023) *Biomedicines*, 11 (8), art. no. 2180, .

190) Fereshteh, S., Jouriani, F.H., Goodarzi, N.N., Torkamaneh, M., Khasheii, B., Badmasti, F.

Defeating a superbug: A breakthrough in vaccine design against multidrug-resistant tuberculosis using reverse vaccinology

(2023) *PLoS ONE*, 18 (8 August), art. no. e0289609, .

191) Liu, L., Yu, W., Cai, K., Ma, S., Wang, Y., Ma, Y., Zhao, H.

Identification of vaccine candidates against *Rhodococcus equi* by combining pangenome and reverse vaccinology approach

(2023) *Heliyon*, 9 (8), art. no. e18623, .

192) Heng, W.T., Lim, H.X., Tan, K.O., Poh, C.L.

Validation of Multi-epitope Peptides Encapsulated in PLGA Nanoparticles Against Influenza Virus

(2023) *Pharmaceutical Research*, 40 (8), pp. 1999-2025.

193) Mukherjee, A., Dandapat, P., Haque, M.Z., Mandal, S., Jana, P.S., Samanta, S., Pal, S., Dey, B., Bandyopadhyay, S., Guha, C.

Computational analysis of hypothetical proteins from *Mycobacterium orygis* identified by transcriptome analysis

and diagnostic potentials

(2023) *Animal Gene*, 29, art. no. 200154, .

- 194) Noori Goodarzi, N., Ajdary, S., Yekaninejad, M.S., Fereshteh, S., Pourmand, M.R., Badma

Reverse vaccinology approaches to introduce promising immunogenic and drug tar resistant *Neisseria gonorrhoeae*: Thinking outside the box in current prevention and

(2023) *Infection, Genetics and Evolution*, 112, art. no. 105449, .

- 195) Dey, J., Mahapatra, S.R., Singh, P.K., Prabhuswamimath, S.C., Misra, N., Suar, M.

Designing of multi-epitope peptide vaccine against *Acinetobacter baumannii* through immunoinformatics and protein interaction-based approaches

(2023) *Immunologic Research*, 71 (4), pp. 639-662.

- 196) Rajendran Krishnamoorthy, H.N., Karuppasamy, R.

Designing a novel SOX9 based multi-epitope vaccine to combat metastatic triple-negative breast cancer: An immunoinformatics approach

(2023) *Molecular Diversity*, 27 (4), pp. 1829-1842.

- 197) Shahrear, S., Islam, A.B.M.M.K.

Modeling of MT. P495, an mRNA-based vaccine against the phosphate-binding protein in *Mycobacterium tuberculosis*

(2023) *Molecular Diversity*, 27 (4), pp. 1613-1632.

- 198) Suleman, M., Khan, S.H., Rashid, F., Khan, A., Hussain, Z., Zaman, N., Rehman, S.U., Zh

Designing a multi-epitopes subunit vaccine against human herpes virus 6A based on immunoinformatics and immune stimulation

(2023) *International Journal of Biological Macromolecules*, 244, art. no. 125068, .

- 199) Li, L., Zhao, Z., Yang, X., Su, Z., Li, W., Chen, S., Wang, L., Sun, T., Du, C., Li, Z., Yang, Z. Y., Wang, H., Zhang, J.

A Newly Identified Spike Protein Targeted Linear B-Cell Epitope Based Dissolvable Nanoparticle Eliciting Neutralizing Activities against SARS-CoV-2 Wild-Type Strain in Mice

(2023) *Advanced Science*, 10 (20), art. no. 2207474, .

- 200)

Mashraqi, M.M., Alzamami, A., Alturki, N.A., Alshamrani, S., Alshahrani, M.M., Almasoudi, H.H.,

Molecular Mimicry Mapping in *Streptococcus pneumoniae*: Cues for Autoimmune Disorders and Immune Defense Activation
(2023) *Pathogens*, 12 (7), art. no. 857, .

ELSEVIER

Copyright © 2024 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.