



Dr. Iman Khalid Almansour

Assistant Professor

Personal Data

Nationality | Saudi

Department | Epidemic Diseases Research

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Personal Statement

Goal-oriented Assistant Professor of Biomedical Engineering & Biotechnology. Full time researcher who Established Nucleic Acid Vaccine Laboratory (NAVL) at IRMC, IAU in which my role is to develop novel vaccine candidates including pDNA and mRNA against emerging and re-emerging viruses and cancers. Led research grants at national and international levels. Established effective international partnership with top leading CDMOs and CROs in clinical development of vaccines.

Language Proficiency

Language	Read	Write	Speak
Arabic	Native	Native	Native
English	Fluent	Fluent	Fluent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2016	Ph.D. in Biomedical Engineering & Biotechnology	University of Massachusetts	Massachusetts, United States
2008	M.Sc. in Clinical Laboratory Sciences	University of Rhode Island	Rhode Island, United States
2005	B.Sc. in Medical Laboratory Technology	King Faisal. University	Dammam, Saudi Arabia

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Cross Reactivity of Serum Antibody Responses Elicited by DNA Vaccines Encoding HA Antigen of H1N1 Influenza Vaccines in the Past 30 Years- Dissertation
Master	Mutational analysis in Patients with Familial Mediterranean Fever-Project

Professional Record: (Beginning with the most recent)



Job Rank	Place and Address of Work	Date
Academic Member	European Virus Bioinformatic Center (EVBC), Fredrich Shiller University, Germany	June 2020- Present
Assistant Professor	Department of Epidemic Diseases Research, IRMC, Imam Abdulrahman Bin Faisal University, Saudi Arabia	Nov, 2017 - Present
Ph.D. researcher, Dissertation	Laboratory of Nucleic acid vaccine, Department of Medicine, University of Massachusetts Medical School, United States	Jan, 2009-2016
Ph.D. researcher, Capstone project	Bioinformatics department, University of Massachusetts Medical School, United States	2010-2010
M.Sc. student	Clinical Laboratory Sciences Department, University of Rhode Island, United States	2007-2008
Intern	Medical Laboratories at King Fahad University Hospital (Immunology, Microbiology, Hematology, Clinical Chemistry, Histopathology, and Blood Bank)	2005-2006

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Lab Director, Nucleic Acid Vaccine Laboratory	Department of Epidemic Diseases Research, Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	2021-Present
Head, Animal Research Facility Committee for Policies and Procedures	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	2023 - Present
Member, KFP Selection Committee (Medicine Track)	King Faisal Prize, King Faisal Foundations	2022-2023
Member, Safety Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	2022-2023
Member, Risk Assessment	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	2021 - 2023
Head, Safety Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	2020 - 2021
Member, Summer Research Program	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	2019 - 2020
Member Biotechnology Master Program	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	2017 - 2019



Scientific Achievements

Patents and patents applications

#	Patent Title	Inventors	Publication/Issue NO	Patent Office
1	Synthetic pDNA vaccine against COVID-19	Dr. Iman Almansour	Issue No: 11,857,621	USPTO, United States
2	Method for Inducing Cellular Immunity to Infection by SARS-Cov-2	Dr. Iman Almansour	Publication No: 20240165220	USPTO, United States
3	Nucleic acid vaccines encoding S gene encapsulated with nanosilica as vaccine candidate against MERS-CoV	Dr. Iman Almansour and Dr. Rabindran Jermy	File No: 551860US	USPTO, United States

Published Refereed Scientific Research

Publications
Almansour, I., & Jermy, B. R. (2024). Nucleic acid vaccine candidates encapsulated with mesoporous silica nanoparticles against MERS-CoV. <i>Human Vaccines & Immunotherapeutics</i> , 20(1), 2346390
Almansour, I., & Boudellioua, I. (2022). hCoronavirusesDB: an integrated bioinformatics resource for human coronaviruses. <i>Database</i> , 2022
Almansour, I., Macadato, N. C., & Alshammari, T. (2021). Immunogenicity of Multiple Doses of pDNA Vaccines against SARS-CoV-2. <i>Pharmaceuticals</i> , 14(1), 39
Almansour, I. (2020). Mumps Vaccines: Current Challenges and Future Prospects. <i>Frontiers in Microbiology</i> , 11
Khan, F. A., Lammari, N., Muhammad Siar, A. S., Alkhater, K. M., Asiri, S., Akhtar, S., Almansour, I., & Meniai, A. H. (2020). Quantum dots encapsulated with curcumin inhibit the growth of colon cancer, breast cancer and bacterial cells. <i>Nanomedicine</i>
Alomari, M., Almohazey, D., Almofty, S., Alhibshi, A., Almansour, I., Kaewsaneha, C., ... & Elaissari, A. (2019). Magnetic-responsive polysaccharide-inorganic composite materials for cancer therapeutics. In <i>Polysaccharide Carriers for Drug Delivery</i> (pp. 179-216). Woodhead Publishing
Almansour, I., Alhagri, M., Alfares, R., Alshehri, M., Bakhashwain, R., & Maarouf, A. (2019). IRAM: virus capsid database and analysis resource. <i>Database</i> , 2019. Volume 2019, 2019, baz079
Almansour, I., & Alhagri, M. (2019). MMRdb: Measles, mumps, and rubella viruses database and analysis resource. <i>Infection, Genetics and Evolution</i> , 75, 103982
Almansour, I., Alfares R and Aljofi H. Large-scale analysis of B-cell epitopes of envelope: Implications for Zika vaccine and immunotherapeutic development. <i>F1000Research</i> 2019, 7:1624



Almansour, I., Chen, H., Wang, S., & Lu, S. (2013). Cross reactivity of serum antibody responses elicited by DNA vaccines expressing HA antigens from H1N1 subtype influenza vaccines in the past 30 years. *Human vaccines & immunotherapeutics*, 9(10), 2049-2059

Completed Research Projects as PI

#	Research Title	Report Date
1	Epitope discovery/mapping of SARS-CoV-2 and a development of multisystem, data driven bioinformatics resource for the surveillance of human Coronaviruses	2021
2	Development of nucleic acid-based vaccines against SARS-CoV-2	2021
3	Humoral Antibody Responses Elicited by Engineered RNA Vaccine Against Zika	2020
4	RNA Vaccine Delivered by Nano-silica as Novel Vaccine Candidate Against MERS-CoV	2024
5	MMRdb: Measles, mumps, and rubella viruses database	2019
6	IRAM: Virus capsids database and analysis Resource	2019

Current Researches

#	Research Title	Funder
1	Phase-I, Randomized, Observer Blind, Dosage Finding Study, to Evaluate the Safety and Immunogenicity of a Prophylactic pDNA Vaccine	MoE
2	Antibodies responses to SARS-CoV-2 infection in hospitalized patients. Prospective observational study	DSR

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	Human Capability Initiative	Riyadh, Saudi Arabia	Speaker
2	Bioengage KFUPM	Dharan, Saudi Arabia	Speaker
3	Sustainable Partnerships Conferences	Riyadh, Saudi Arabia	Exhibitor
4	Knowledge Series-Biotech Innovation Series-SFDA	Riyadh, Saudi Arabia	Speaker
5	Importance of medical biotechnology research in Saudi universities and its reflection on the knowledge economy	Riyadh, Saudi Arabia	Speaker
6	Research and Innovation in Pharmaceutical Industry	Riyadh, Saudi Arabia	Speaker
7	knowledge integration conference	Riyadh, Saudi Arabia	Exhibitor
8	COVID-19 vaccines: Global challenges and future Prospects	Riyadh, Saudi Arabia	Speaker
9	COVID-19 pandemic workshop	Riyadh, Saudi Arabia	Speaker



10	Capacity Building in Tropical Diseases Implementation Research	Manama, Bahrain	Participant
11	20th DNA Vaccine Conference	San Diego, CA, United States	Poster
12	Sigma Xi 17 Annual Research Exhibition, Dartmouth, MA, United States, 2011	Dartmouth, MA, United States	Poster

Membership of Scientific and Professional Societies and Organizations

#	Membership	Country	Date
1	International Society for Vaccine	United States	2023- Present
2	European Virus Bioinformatics Center	Germany	2020- Present
3	ECA for GMP Compliance	Germany	2022- Present
4	International Society of Global Health (ISoGH)	UK	2020- Present

Teaching Activities

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Immunology	821 MSBE	Lectures
2	Immunology	821 MSBE	Labs

Brief Description of Postgraduate Courses Taught

821 MSBE	The BSME821 Immunology course focuses on providing the fundamentals of the immune system and integrating the clinical aspects of immune-driven diseases with cutting-edge immuno-based technologies and therapeutics to gain the required knowledge and skills for criticizing, evaluating, and solving immunological problems. Students will gain in-depth knowledge in four areas: 1) Immune system components and types of responses, immunogenicity, immune system pathology, and cancer immunology. 2) Immunoassays and immunoinformatic. 3). Modern vaccine technologies and Immunotherapeutic. 4). Principles of GMP manufacturing of vaccines and monoclonal antibodies. In addition, the students will learn how to integrate the learnt course's materials in vaccines development, immuno-informatics, and immunological techniques by formulating a brief, written proposal, to develop modern vaccine candidates and demonstrate immuno-biotechnological solutions for the unmet health needs for immune-mediated diseases.
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Guest/Invited Lectures for Postgraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
1	Bioengage	Bioengineering strategies for pDNA vaccine: from lab scale to GMP manufacturing	Bioengineering Department, KFUPM	2024



2	841 MSBE	Nucleic Acid based vaccine: Current Status and prospects	Biotechnology, IRMC, IAU	2022
3	Postgraduate Academic Half Day activities	"Vaccination: what do you need to know as a clinical Microbiologist	Clinical Microbiology Fellowship Program College of Medicine, IUA	2021
4	841 MSBE	Nucleic Acid based vaccine and their applications	Biotechnology, IRMC, IAU	2021

Awards and recognitions

#	Degree Type	Affiliation	Location
1	Sustainable Partnerships Conference	IAU	Saudi Arabia
2	IAU-Vice Presidency of Female Affair	Testahel- Faculty member, IAU	Saudi Arabia
3	IRMC-IAU Faculty Recognition	Summer research program	Saudi Arabia
4	King Abdullah Bin Abdulaziz Scholarship	Doctorate program	Saudi Arabia
5	Outstanding Academic Achievement	Saudi Arabian Cultural Mission	Washington DC, USA
6	Outstanding Academic Achievement	Saudi Arabian Cultural Mission	Washington DC, USA
7	King Abdullah Bin Abdulaziz Scholarship	Master Program	Saudi Arabia
8	Honor student	King Faisal University	Saudi Arabia

Press/Media

#	Media	Link
1	Saudi Arabia's first COVID-19 vaccine set for clinical trials", Press interview (2021)	https://www.arabnews.com/tags/dr-iman-almansour
2	The first Saudi Vaccine against COVID-19 amongst the Strategic Projects of Research funded by Saudi Ministry of Education, A research published in Q1 Journal, Press release (2021)	https://www.iau.edu.sa/en/news/the-1st-saudi-vaccine-against-covid-19-a-research-published-in-q1-journal
3	First Saudi Vaccine for COVID-19 is Set for Clinical Trial, QS, Press release (2021)	https://qs-gen.com/first-saudi-vaccine-for-covid-19-is-set-for-clinical-trial
4	Dr. Iman Almansour Grants Saudi Arabia its First Covid-19 Vaccine, CGC (2021)	https://cgc.gov.sa/en/node/427
5	Saudi university begins clinical trials to produce first coronavirus vaccine, Saudi Gazette (2021)	https://www.saudigazette.com.sa/article/603364
6	Leading the way how Saudi Arabia is pioneering research among global partners, Nature Portfolio, Press release (2020)	https://www.nature.com/articles/d42473-021-00252-x

Last Update

29/05/2024