

# Dr. Nazam Khan

## Assistant Professor Microbiology

### Contact

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## Highlights

- Works well under tight deadlines
- Exceptional interpersonal research skills
- Master of Microbiological techniques
- Highly responsible and reliable
- competent in spotting search topics

## Education

### **PhD** • September 2015 • **Shoolini University of Biotechnology and Management Sciences, India**

Study of the protective immune response against promiscuous peptides predicted from vaccine candidate antigen genes of *Plasmodium falciparum* for vaccine development

### **MSc** • May 2010 • **Punjabi University Patiala, India**

To check the pollutants and microbial components of Ghaggar River

### **BSc** • March 2008 • **Himachal Pradesh University Shimla India**

Recipient of Maulana Azad National Fellowship (Senior Research Fellow, SRF) of University Grants Commission (**UGC**), **Government of India** Fellowship No. MUS/HIM/15329).

## Experience

- Committee member – Research Committee-CLS department - From 2022 till now.
- Assistant professor – Microbiology – CLS department - 2019 till now
- Committee member – Quality Committee-CLS department - From 2022 till now.
- Committee member – Student Schedule Committee-CLS department - From 2022 till now.

## Personal Skills

- Computer Skills
- Good Reseacher
- Accreditation Skills
- Teaching aids education

## Publications

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1. Balakrishna A, Rohela A, Kumar A, Arya V, **Khan N** (2022), Variations from SARS-CoV-2 to Omicron: A new threat knocking at worlds door. *Journal of Applied Pharmaceutical Sciences*. 12 (04); 2022: 037-043.
2. **Khan N**, Mwena MN, Alruways M, Allehyani N, Alanzi M, Shahzad, Khan A, Sehgal R, Tripathi PK, Farooq U, (2022), Prediction and analysis of promiscuous T cell and B cell-epitopes derived from the vaccine candidate antigens of *Plasmodium vivax* binding to MHC class-II alleles using in silico. *Journal of Vector Born Diseases*.59(2),154-162.
3. Mashael W Alruways and **Nazam Khan** (2022), Antioxidant and antibacterial potential of *Lycium shawii* Roem to combat & Schult (Awsaj) and *Tetraena qatarensis* (Hadidi) Beier & Thulin leaves: A herbal approach drug resistance and oxidative stress. *Research Journal of Pharmacy and Technology*. 15(4):1543-8.
4. Sonam,Kumari A, Kumar V, Guleria I, Sharma M, Kumar A, Alruways M, **Khan N**, Raina R (2021), Antimicrobial Potential and chemical profiling of leaves essential oil of *Mentha* species growing under North-West Himalya conditions, *Journal of Pure and Applied Microbiology*.15(4): 2229-2243.
5. Khatana C, Kumar A, Alruways M, **Khan N**, Thakur P, Kumar D, Kumari A (2021), Antibacterial potential of Zinc OxideNanoparticles Synthesized using *Aloe Vera*(L.) Burm.f.: A Green Approach to combat drug resistance, *Journal of Pure and Applied Microbiology*. 15(4): 1907-1914.
6. Shakti Chauhan, Rajender Kumar, **Nazam Khan**, Swati Verma, Rakesh Sehgal, Parveen Kumar, Umar Farooq (2020), Designing peptide-based vaccine candidates for *Plasmodium falciparum* erythrocyte binding antigen 175.Elsevier: *Biologicals*. 67: 42-48.
7. **Nazam Khan**, Amir Khan, Umar Farooq (2020), *Azadirachta Indica*: Indian Neem, A Natural Killer of Microorganisms. *Universities Journal of Photochemistry and Ayurvedic Heights*.1:28, 5-11.
8. **Nazam Khan**, Farooq U, Chauhan S, Amir Khan, and Azhar Khan (2019), Protein Modelling and Binding Analysis of HLA-DR Promiscuous T cell Epitopes from Pfs-25 Ookinete Surface Antigen. *JSMC Bioinformatics, Genomics and Proteomics*. 4:14.
9. **Khan N**, Kumar R, Chauhan S and Farooq U (2017), An immunoinformatics approach to promiscuous peptides design for *Plasmodium falciparum* erythrocyte membrane protein-1, *Molecular BioSystems*, 13, 2160-2167.
10. **N Khan**, A Kumar, V Sharma and U Farooq (2015), Effect of temperature and distance on Physico-chemical and microbial components on it, *International Journal of Current Microbiology and Applied Sciences*, 4(1): 614-624.
11. **Khan N**, Kumar A, Sharma V, Farooq U and Azhar K (2014), Ghaggar River Impact of Polluting agents and microbial components on River water, *International Journal of Pharmaceutical Sciences Review and Research*, 24(2), 171-175.
12. **Khan N**, Farooq U (2013), Identification of promiscuous peptides from *Pfemp-1*, *Pfs-25* genes in *Plasmodium falciparum* strains prevalent in Northern region of India, *Journal of Proteins and Proteomics*, 4, 58.

## Patent Publication

1. **Khan N**, Farooq U, Chauhan SP, Novel Peptide sequences for developing anti malaria vaccines and therapeutic compositions. Application No. 1465/DEL/2015.
2. **Khan N**, Farooq U, Novel Anti-malarial peptide from *P. falciparum*. Application No. 3887/DEL/2015.
3. **Khan N**, Farooq U, Novel peptide sequences for developing diagnostic agents for malaria detection. Application No. 1228/DEL/2015.

## Webinars Attended

1. **Wbinar on “Challenges to Pharma Sector During COVID-19 Pandemic”**, 25th May 2020. Organized By, Sanjivani Arts and Science College Kopargaon, India.
2. **Wbinar on “Role of Microbiologist during COVID-19”**, 26th May 2020. Organized By, Sanjivani Arts and Science College Kopargaon, India.
3. **International Web- Conference on “Coaxial living with Microbes-II: Impact on Health and Enviornment”**, 30-31<sup>st</sup> May 2020, Organized By: Maharaja Ranjit Singh College of Professional Sciences.
4. **Two Day International Symposium on“COVID-19 : Social Perspectives**, 11<sup>th</sup>- 12<sup>th</sup> June 2020, Organized by Gujranwala Guru Nanak Institute of Management & Technology, India.
5. **Two Day International Symposium on“IMPACT OF COVID-19 on The Business World”**, 19<sup>th</sup> -20<sup>th</sup> June 2020, Organized by Gujranwala Guru Nanak Institute of Management & Technology, India.
6. **Wbinar on “ Herbal Research: Opportunities, Challenges and Beyond”**, 20<sup>th</sup> June 2020. Organized by: Universities Journal of Phytochemistry and Ayurvedic Heights.
7. **Wbinar on “Research Publications and Citations: Perspective of a Highly Cited Researcher”**, 16<sup>th</sup> June 2020. Organized By Department of Physics, Mizoram University, India.
8. **Wbinar on “Gender Implications of COVID-19 Pandemic: A Way Ahead”**. 17<sup>th</sup> June 2020. Organized By Department of Clinical Psychology, Mizoram University, India.
9. **Wbinar on “Managing stress and relationships during covid-19 pandemic”**, 22<sup>nd</sup> June 2022. Organised By Mizoram University, India.

**10. International webinar on “Recent innovations in Applied Microbiology”**, 9<sup>th</sup> July 2020, Organized by Department of Microbiology, Noorul Islam College of Arts & Science, India.

## Conferences Attended at National and International Level

**1. National Seminar on “Global Environmental Change: Challenges & Management Strategies” (21-22 Jan.2011)** Organized by Kanya Maha Vidyalaya, Jalandhar (Pb).

**2. National Conference on “New Horizons In Bioprocessing Of Foods” (25-26 Feb. 2011)** Organised by Sant Longowal Institute Of Engineering and Technology Longowal, Distt. Sangrur (Pb).

**3. “Virus 2012”, 3rd September 2012**, Organized by Department of Virology, Postgraduate Institute of Medical Education and Research, Chandigarh on September.

**4. 24 National congress of Parasitology, 27 –29 April 2013**, Organized by Regional Medical Research Centre for Tribals, Jabalpur.

**5. Research Trends in Future Drug Development: Exploration of Medicinal and Aromatic Flora, 20<sup>th</sup> -21<sup>st</sup> June 2013**, Organized by Shoolini University, Solan (H.P).

**6. National Conference on Recent Trends in Protein Structural Biology, 16 - 18 December 2013**, Organized by Department of Basic Sciences, Jamia Millia Islamia, Jamia Nagar, New Delhi.

**7. Emerging Trends in Pharmacological Education & Research, 3rd May 2014**, Organized by School of Pharmaceutical Sciences, Shoolini University, Solan.

**8. Global Challenges in the Management of Parasitic Diseases, 16<sup>th</sup> -18<sup>th</sup> October 2014**, Organized by The Indian Society for Parasitology & CSIR-Central Laboratory, Lukhnow.

**9. International symposium on Emerging discoveries in Microbiology, 7<sup>th</sup> -10<sup>th</sup> December 2015**, Organized by The association of microbiologist & Jawahar Lal Nehru University, Delhi.

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## Workshops

**1. National Workshop on Genomics and Proteomics, 3rd- 5th March 2014**, Organized by Department of Biochemistry, Maharshi Dayanand University, Rohtak, Haryana.

**2. “Workshop on Microbial Technology & its Applications” (10-11 oct 2009)** Organized by Dolphin (PG) Institute of Biomedical & Natural sciences Dehradun in Collaboration with **Forest Research Institute**, Dehradun, Uttarakhand.

**3. Workshop on Molecular Diagnosis for Parasitic Disease: Conventional & Real Time PCR Techniques, 10 September 2012**, Organized by Department of Parasitology, PGIMER, Chandigarh.