Dr. Saifullah Khan

Ph.D. Microbiology | Assistant Professor | Pharm.D



Academic researcher and educator with 15+ years of combined experience in higher education, pharmaceutical quality control, and translational microbiology research, with a strong record of peer-reviewed publication and postgraduate mentorship.

Email: saifrph@gmail.com **Email:** saifullahkhan@bkuc.edu.pk **Mobile:** +92 334 9101912 **Mobile:** +92 312 1941912

Location: Peshawar, Khyber Pakhtunkhwa, Pakistan **Nationality:** Pakistani

15+	29	PhD	4
YEARS IN ACADEMIA & INDUSTRY	PEER-REVIEWED PUBLICATIONS	MICROBIOLOGY, 2019	ACADEMIC & GOVERNANCE ROLES

PROFESSIONAL PROFILE

Dedicated and research-driven academic with a Ph.D. in Microbiology and a Doctor of Pharmacy (Pharm.D) background, currently serving as Assistant Professor of Microbiology at Bacha Khan University Charsadda. Combines strong laboratory and analytical expertise with proven teaching, curriculum development, and university governance experience, including service on the Syndicate, Board of Faculty, and ASRB. Author of 29 peer-reviewed articles spanning microbiology, biotechnology, computational vaccine design, and pharmaceutical drug delivery, published in journals including *Frontiers in Pharmacology*, *Vaccines*, and the *Journal of Biomolecular Structure and Dynamics*. Seeking to bring this blend of research maturity, academic leadership, and hands-on scientific rigor to a faculty, research, or scientific leadership role internationally.

CAREER OBJECTIVE

To secure a challenging academic or research position within a globally recognized institution where I can apply more than a decade of teaching, laboratory, and pharmaceutical industry experience toward impactful research, quality mentorship of students, and continuous professional growth — while contributing to the institution's academic excellence and scientific output.

PROFESSIONAL EXPERIENCE

Assistant Professor of Microbiology

26 July 2021 – Present

Bacha Khan University, Charsadda, Pakistan

Deliver undergraduate and postgraduate instruction in microbiology; supervise student research projects. Serve concurrently as a Member of the University Syndicate, the Board of Faculty, and the Academic Staff Recruitment Board (ASRB), contributing to institutional governance, policy, and faculty recruitment decisions.

Assistant Professor

8 February 2016 – 26 July 2021

Abasyn University, Peshawar, Pakistan

Taught core and specialized courses, mentored final-year research students, and contributed to departmental academic planning over more than five years of continuous service.

Lecturer

October 2008 – September 2012

Abasyn University, Peshawar, Pakistan

Delivered lectures and laboratory instruction at the undergraduate level, building the foundation of a long-term academic career while progressing to a Ph.D. in Microbiology.

Assistant Quality Control Manager

September 2006 – October 2008

Medicraft Pharmaceuticals, Peshawar, Pakistan

Oversaw quality control processes for pharmaceutical production, applying Pharm.D training to ensure product compliance with quality and regulatory standards.

EDUCATION

DEGREE	INSTITUTION	YEAR	RESULT
Ph.D. – Microbiology	Centre of Biotechnology & Microbiology (COBAM), University of Peshawar	2019	1st Division
M.Phil. – Biotechnology	Centre of Biotechnology & Microbiology (COBAM), University of Peshawar	2012	1st Division
Pharm.D – Doctor of Pharmacy	Department of Pharmacy, University of Peshawar	2008	1st Division
B.Sc. – Botany, Zoology, Chemistry	Islamia College, Peshawar	2002	1st Division
F.Sc. – Pre-Medical	Islamia College, Peshawar	2000	1st Division
SSC – Science	University Public School, Peshawar	1998	1st Division

RESEARCH INTERESTS

- Microbiology
- Biotechnology
- Vaccinomics
- Computational Vaccine Design
- Nanoparticle Drug Delivery
- Pharmaceutical Quality Control
- Antimicrobial Research
- Bioinformatics

CORE COMPETENCIES

- University teaching & curriculum design
- Postgraduate research supervision
- Academic governance & committee leadership
- Laboratory & pharmaceutical QC management
- Scientific writing & peer-reviewed publishing

SELECTED PEER-REVIEWED PUBLICATIONS

Author / co-author of 29 peer-reviewed research articles in international journals, listed in reverse chronological order.

1. **2023** — Ahmad, S., Almanaa, T.N., Khan, S., et al. “Identification of potential drug molecules against fibroblast growth factor receptor 3 (FGFR3) by multi-stage computational-biophysics correlate.” *Journal of Biomolecular Structure and Dynamics*.
2. **2023** — Bashir, S., Shabbir, K., Din, F.U., Khan, S.U., Ali, Z., Khan, B.A., Kim, D.W., Khan, G.M. “Nitazoxanide and quercetin co-loaded nanotransfersomal gel for topical treatment of cutaneous leishmaniasis with macrophage targeting and enhanced anti-leishmanial effect.” *International Journal of Pharmaceutics / Related Publication*.
3. **2023** — Ullah, A., Rehman, B., Khan, S., Ahmad, S. “In silico design of multi-epitopes vaccine ensemble and characterization against nosocomial Proteus penneri.” *Molecular Biotechnology*.
4. **2023** — Nousheen, K., Din, F.U., Jamshaid, H., Afza, R., Khan, S.U., Malik, M., Ali, Z., et al. “Metformin HCl-loaded transethosomal gel; development, characterization, and antidiabetic potential evaluation in the diabetes-induced rat model.” *Drug Delivery, 30(1), 2251720*.
5. **2023** — Guo, Z., Afza, R., Khan, M.M., Khan, S.U., Khan, M.W., Ali, Z., Batool, S., Din, F.U. “Investigation of the treatment potential of Raloxifene-loaded polymeric nanoparticles in osteoporosis: in-vitro and in-vivo analyses.” *Heliyon*.
6. **2023** — Al-Harbi, A.I., Ullah, A., Almanaa, T.N., Gul, F., Khan, S., Waheed, Y., Haq, M.U., et al. “A chemoinformatic-biophysics based approach to identify novel anti-virulent compounds against Pseudomonas aeruginosa disulfide-bond protein A1.” *Journal of Biomolecular Structure and Dynamics*.
7. **2023** — Almanaa, T.N., Mubarak, A., Sajjad, M., Ullah, A., Hassan, M., Waheed, Y., Irfan, M., Khan, S., Ahmad, S. “Design and validation of a novel multi-epitopes vaccine against hantavirus.” *Journal of Biomolecular Structure and Dynamics*.
8. **2023** — Ullah, A., Haq, M.U., Iqbal, M., Irfan, M., Khan, S., Muhammad, R., Ullah, A., et al. “A computational quest for identifying potential vaccine candidates against Moraxella lacunata: a multi-pronged approach.” *Journal of Biomolecular Structure and Dynamics*.
9. **2023** — Malik, M., Khan, S., Ullah, A., Hassan, M., Haq, M.U., Ahmad, S., Al-Harbi, A.I., et al. “Proteome-wide screening of potential vaccine targets against Brucella melitensis.” *Vaccines, 11(2), 263*.
10. **2022** — Khan, M.M., Zaidi, S.S., Siyal, F.J., Khan, S.U., Ishrat, G., Batool, S., Mustapha, O., Khan, S., Din, F.U. “Statistical optimization of co-loaded rifampicin and pentamidine polymeric nanoparticles for the treatment of cutaneous leishmaniasis.” *Journal of Drug Delivery Science and Technology, 104005*.
11. **2022** — Miandad, K., Ullah, A., Bashir, K., Khan, S., Abideen, S.A., Shaker, B., Alharbi, M., et al. “Virtual screening of Artemisia annua phytochemicals as potential inhibitors of SARS-CoV-2 main protease enzyme.” *Molecules, 27(22), 8103*.
12. **2022** — Maqsood, S., Din, F.U., Khan, S.U., Elahi, E., Ali, Z., Jamshaid, H., Zeb, A., et al. “Levosulpiride-loaded nanostructured lipid carriers for brain delivery with antipsychotic and antidepressant effects.” *Life Sciences, 121198*.
13. **2022** — Jamshaid, H., Din, F.U., Nousheen, K., Khan, S.U., Fatima, A., Khan, S., Choi, H.G., Khan, G.M. “Mannosylated imiquimod-terbinafine co-loaded transethosomes for cutaneous leishmaniasis; assessment of anti-leishmanial potential, in vivo safety, and immune response modulation.” *Biomaterials Advances, 213266*.
14. **2022** — Mushtaq, M., Khan, S., Hassan, M., Al-Harbi, A.I., Hameed, A.R., Khan, K., Ismail, S., Irfan, M., Ahmad, S. “Computational design of a chimeric vaccine against Plesiomonas shigelloides using pan-genome and reverse vaccinology.” *Vaccines, 10(11), 1886*.
15. **2022** — Afzaal, H., Altaf, R., Ilyas, U., Zaman, S.U., Hamdani, S.D.A., Khan, S., Zafar, H., Babar, M.M., Duan, Y. “Virtual screening and drug repositioning of FDA-approved drugs from the ZINC database to identify potential hTERT inhibitors.” *Frontiers in Pharmacology, 13*.
16. **2022** — Irfan, M., Khan, S., Hameed, A.R., Al-Harbi, A.I., Abideen, S.A., Ismail, S., Ullah, A., Abbasi, S.W., Ahmad, S. “Computational-based designing of a multi-epitopes vaccine against Burkholderia mallei.” *Vaccines, 10(10), 1580*.
17. **2022** — Nawaz, M., Ullah, A., Al-Harbi, A.I., Haq, M.U., Hameed, A.R., Ahmad, S., Aziz, A., et al. “Genome-based multi-antigenic epitopes vaccine construct designing against Staphylococcus hominis using reverse vaccinology and biophysical approaches.” *Vaccines, 10(10), 1729*.
18. **2022** — Jadoon, S.S., Ilyas, U., Zafar, H., Paiva-Santos, A.C., Khan, S., Khan, S.A., Abbas, M., et al. “Genomic and epigenomic features of Glioblastoma Multiforme and its biomarkers.” *Journal of Oncology, 2022*.
19. **2022** — Khan, S., Irfan, M., Hameed, A.R., Ullah, A., Abideen, S.A., Ahmad, S., Haq, M.U., et al. “Vaccinomics to design a multi-epitope-based vaccine against monkeypox virus using surface-associated proteins.” *Journal of Biomolecular Structure and Dynamics*.

20. **2022** — Ullah, A., Khan, S.U., Haq, M.U., Ahmad, S., Irfan, M., Asif, M., Muhseen, Z.T., et al. “Computational study to investigate Proteus mirabilis proteomes for multi-epitope vaccine construct design.” *Journal of Biomolecular Structure and Dynamics*.

21. **2022** — Ullah, R., Ali, G., Baseer, A., Khan, S.I., Akram, M., Khan, S., Ahmad, N., et al. “Tannic acid inhibits lipopolysaccharide-induced cognitive impairment in adult mice by targeting multiple pathological features.” *International Immunopharmacology, 110, 108970*. **[IF: 4.91]**

22. **2022** — Batool, A., Miana, G.A., Alam, M., Khan, M.T., Muddassir, M., Zaman, W., Khan, S., et al. “Bioassay-guided fractionation and isolation of Arctigenin from Saussurea heteromalla for in vitro and in silico cytotoxic activity against HeLa cells.” *Physiological and Molecular Plant Pathology, 117, 101749*. **[IF: 2.68]**

23. **2021** — Rahman, Z.U., Al Kury, L.T., Alattar, A., Tan, Z., Alshaman, R., Malik, I., Badshah, H., et al. “Carveol, a naturally-derived potent and emerging Nrf2 activator, protects against acetaminophen-induced hepatotoxicity.” *Frontiers in Pharmacology, 11, 621538*. **[IF: 5.81]**

24. **2021** — Ullah, S., Saeed, M., Ullah, I., Halimi, S.M.A., Khan, K.M., Jahan, S., Mohani, S.N., Khan, S., Khan, A. “Synthesis and characterization of novel piroxicam derivatives and their antiglycation activity.” *Journal of Molecular Structure, 1239, 130470*. **[IF: 3.196]**

25. **2021** — Raza, M., Jiang, Y., Ahmad, B., Rahman, A.U., Raza, S., Khan, A., Tahir, K., Hassan, S., Khan, S., Yuan, Q. “Biophysical investigation of interactions between sorbic acid and human serum albumin through spectroscopic and computational approaches.” *New Journal of Chemistry, 45(17), 7682-7693*. **[IF: 3.591]**

26. **2021** — Gul, F., Ahmad, B., Afzal, S., Ullah, A., Khan, S., Aman, K., Khan, M.T., et al. “Comparative analysis of various sources of selenium on the growth performance and antioxidant status in broilers under heat stress.” *Brazilian Journal of Biology, 83*. **[IF: 1.36]**

27. **2021** — Khan, B., Ullah, A., Khan, M.A., Amin, A., Iqbal, M., Khan, S., Ateeq, M., et al. “Anti-hyperglycemic and anti-hyperlipidemic effects of a methanolic extract of Debregeasia salicifolia in Alloxan-induced diabetic albino mice.” *Brazilian Journal of Biology, 84*. **[IF: 1.36]**

28. **2021** — Hyder, A., Khan, M., Khan, S., Iqbal, M., Jan, S.A., Shah, S.H., Rahman, Z.U., Iqbal, U. “Biodegradation of low-density polyethylene plastics by fungi isolated from a waste disposal site in district Peshawar, Pakistan.” *Pakistan Journal of Biochemistry and Biotechnology, 2(2), 127-133*.

29. **2019** — Khan, S.U., Ahmad, B., Khan, I., Rauf, S., Azam, S., Ullah, I. “Optimization of growth conditions for the maximum production of secondary metabolites from Trichoderma harzianum and their biological activities.” *International Journal of Pharmacology, 15(3), 351-360*. **[IF: 0.81]**

References and complete publication list available upon request.