



Dr. ALLAH NAWAZ KHAN (Life & Allied Health Sciences)
HEC Ph. D Country Directory No ≠ 32723

OBJECTIVE AND AMBITIONS

My degrees in Allied Health Sciences have given me the ability to conduct research that advances my understanding of the subject, and I hope to pursue academic as well as administrative options at higher educational institutions and other related organizations.

As I pursue my academic and professional goals, I want to guide and mentor students as well as my team members. Holding an advanced degree in allied health sciences, my objectives are to investigate top positions in healthcare organizations and make a positive impact on the advancement of healthcare practices and technologies.

PERSONAL INFORMATION

Name: Dr. Allah Nawaz Khan
S/O: Dr. Zar Wali Khan
Gender: Male
Marital Status: Married
N.I.C No: 11101-5780781-5
Domicile: Bannu (Khyber Pakhtunkhwa, PAKISTAN)
Date of Birth: 15/04/1989
Permanent Address: Village Darya khel daud shah P/O
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Language: Speak English, Urdu, and Pashto.

QUALIFICATION

S.No.	Exam pass	Season	Marks	Division	Institution/board
1.	S.S.C(science)	2005	727/1050	1 st	B.I.S.E Bannu
2.	F.Sc (pre-medical)	2007	855/1100	1 st	B.I.S.E Bannu
3.	BS.(Hons)Biotechnology (M.sc equivalent)	2011	4362/5500	1 st	U.S.T Bannu
4.	MS. Microbiology & Immunology	2015	3.23cgpa	1st	COMSATS University Islamabad
5	PhD Microbiology & Immunology	2023	3.12cgpa	1st	COMSATS University Islamabad

EDUCATIONAL RESEARCH

- **Completed PhD Research** Project on, 'Evaluation of Rhizospheric lactobacillus Species Isolated from Medicinal Plants for the Production of Nutraceuticals/Probiotics'.
- **Completed my MS thesis** on "Exposure risk of toxic metals and *Staphylococcus aureus* via dust: a case study of internally displaced (IDPs Bannu) KPK, Pakistan".
- **Completed my BS thesis** on "Bioethanol production from the wastes of potato and mango through enzymatic hydrolysis and *Saccharomyces cerevisiae*" in Biotechnology Lab at University of Science & Technology, Bannu from September 2011 to February 2012.

PROFESSIONAL EXPERIENCE

- Worked as a **Research associate** in a One-year project "**Bioethanol production from agricultural wastes**" funded by the Directorate of Science and Technology, Khyber Pakhtunkhwa, PAKISTAN (2011-2012).
- Taught **Biology** and **Chemistry** at Hira School to secondary classes (2010-2013).
- Worked as a lecturer and Co-coordinator in Life Science Department, Abasyn University Islamabad Campus from **September 2015 to January 2021**.
 - Was Acting Head of the Department, Life Sciences Abasyn University Islamabad Campus, administering BSMB, MScMB, MPhilMB, BSHND, BSMLT, DPT **from September 2018 to August 2019**.
 - Head of the Exam and Program students advisory Committees of Life Department, Abasyn University
- Worked as Assistant Professor and Head of Allied Health Sciences Department, Iqra University Islamabad Campus Chak Shehzad from **January 2021 till March 2023**.
 - Head and member of various societies at Iqra University Islamabad campus chak Shahzad.
- Worked as Assistant professor and principal of HBS College of Allied Health Sciences, August 2023 till May 2024.
- Recently working as Assistant professor Microbiology at Health Services Academy (HSA), Islamabad as well as Food Scientist at Dhyani Health Foods Pvt Ltd (Deputed by HSA).
- Acting as focal person for my own designed approved programs
 1. Post Graduate Diploma in Laboratory Management (HEC Approved)
 2. Professional Phlebotomy Certificate Course.
 3. MS in Medical Laboratory Sciences and Post Graduate Diploma in Professional Microbial Sciences are under the approval process to be launched soon.

Technical skills

- Preparation of Culture Media and Sterilization.
- Culturing, Isolation, Purification, Staining Techniques and Antibiotics susceptibility analysis
- Techniques for Identification of known & Unknown Microbes.
- DNA extraction, Master mix preparation
- Use of a number of Lab Equipments such as Micropipette, Orbital Shaker, Autoclave,

Spectrophotometer, Distillation, incubation, Chromatography, Oven, PCR & Gel
Electrophoresis , Nano drop, UV illuminator, Gel documentation, Fermentation Techniques

Computer skills

- Windows s8/2000/XP (Installation & Trouble Shoot).
- Microsoft Office (Word, Excel, PowerPoint).
- Software Installation and Management.
- Internet Surfing and Usage.
- Adobe Photoshop Installation and Usage, etc.

Research publications

- Rahmat Ali Khan, Allah Nawaz Khan, Mushtaq Ahmed, Muhammad Rashid Khan, Mir Sadiq Shah, Nasir Azam, Farheen Sadullah, Fazal Dian , Sami Ullah and Nisar Khan. 2011. *Bioethanol sources in Pakistan: A renewable energy resource*. African Journal of Biotechnology Vol. 10(86): 19850-19854
- Rahmat Ali Khan, Allah Nawaz, Mushtaq Ahmed, Muhammad Rashid Khan, Fazal Dian, Nasir Azam, Sami Ullah and Farheen Sadullah, Akhlaq Ahmad, Mir Sadiq Shah and Nisar Khan. 2012. *Production of bioethanol through enzymatic hydrolysis of potato*. African Journal of Biotechnology Vol. 11(25): 6739-6743.
- Allah Nawaz Khan, Amar riaz, Humaira Yasmin, Muhammad Akhlaq Mughal (March 2018). Pattern of Clinical Pathogens Isolated From Pus Samples and Their Antibiotic Susceptibility in Rawalakot Azad Kashmir Region. Journal of International Academic Research for Multidisciplinary, 6(2):16-26.
- Allah Nawaz Khan, Niaz Ahmad , Khalid Latif , Humaira Yasmin , Asad Ali , Muhammad Akhlaq Mughal. Effects of Smoking on Triglyceride Level in Heart Patients in Islamabad Region, Pakistan. Bull. Env. Pharmacol. Life Sci., Vol 7 [5] April 2018 : 82-86
- Manuscript,' Nasal carriage of highly resistant methicillin resistant *Staphylococcus aureus* (MRSA) strains by hospital staff in Hazara region of Pakistan,' has been accepted in Journal of the Pakistan Medical Association (JPMA-2019-01-177).
- AllahNawaz Khan, Humaira Yasmin, Bin Amin, Liaqat Muhammad, Basharat Ullah Khan, Manzoor Ahmed. Microbial cell as bio-factory for bioactive compounds: review on microbial nutraceuticals. Int. J. Biosci. 14(3), 207-220, March 2019.
- Bushra Urooj, Maria Sohail, Allah Nawaz Khan, Muhammad Aqeel, Dur Shehwar, Abdul Manan and Shakira Ghazanfar. Role of Next Generation Sequencing (NGS) in Searching for Promising Lactic Acid Strains Used as Animal Probiotic. ACTA SCIENTIFIC NUTRITIONAL HEALTH. VOL 4, ISSSUE 4, 2020.
- Mahnoor Nadeem, Aimen Saleem, Hamza Ali, Allah Nawaz Khan, and Shakira Ghazanfar. Lactic Acid Bacteria: Promising Role against Coronaviruses. ACTA SCIENTIFIC NUTRITIONAL HEALTH. VOL 4, ISSSUE 7. 2020.

- Sadiq, A., Samad, M., Saddam, N. B., Ali, S., Roohullah, Z. S., Khan, A. N., ... & Khan, J. (2020). Methicillin-Resistant *Staphylococcus aureus* (MRSA) in Slaughter Houses and Meat Shops in Capital Territory of Pakistan During 2018–2019. *Frontiers in Microbiology*, 11.
- Research Article, ‘Prevalence, Risk factors and Antibigram analysis of Nosocomial Infection in Tertiary Care Hospital of Rawalpindi, Pakistan’ is under preprints in research square ARIC-D-20-00577.
- Allah Nawaz Khan., Yasmin, H., Ghazanfar, S., Hassan, M. N., Keyani, R., Khan, I., ... & Ahmad, A. (2021). Antagonistic, anti-oxidant, anti-inflammatory and anti-diabetic probiotic potential of *Lactobacillus agilis* isolated from the rhizosphere of the Medicinal Plants. *Saudi Journal of Biological Sciences*.
- Allah Nawaz Khan, Shakira Ghazanfar, Muhammad Nadeem Hassan, Ajaz Ahmad, Naeem Khan, Humaira Yasmin (2024). "Probiotic potential of *Lactobacillus agilis* against oxidative, inflammatory and diabetic stresses." *Journal of King Saud University-Science* 36.5 (2024): 103144.
- Allah Nawaz Khan, Arslan Rasheed, Qurat-Ul-Ain, Abia Mushtaque, Mehwish Saeed, Tehreem Fatima Tariq. (2024). Investigation of Epidemiology and Assessment of Antimicrobial Resistance of *Clostridioides difficile* in Animal-Based Foods. *Journal of Population Therapeutics and Clinical Pharmacology*, 31(3), 1356–1364.
- Allah Nawaz Khan, Faisal Shehzad, Fakhare Alam, Abdul Basit, Shah Murad Bacha, Samreen Saleem. (2024). Prevalence of *Salmonella enteritidis* and *Salmonella typhimurium* in raw and minced beef of districts Attock and Chakwal regions, Pakistan. *Journal of Population Therapeutics and Clinical Pharmacology*, 31(5), 62–75.
- Allah Nawaz Khan*, Arifa Mughal, Sabahat shamshad, Muhammad Junaid, Fawad Bashir. Antibigram and Identification of the *hlyA* gene in *Listeria Monocytogenes* Isolated from *Labeo Rohita* Samples. *Afr. J. Bio. Sc.* 6(5) (2024). 9461-9471.
- Allah Nawaz Khan, Muhammad Nadeem Hassan, Rumana Keyani, Zaineb Amir, Mohammad Raish, Rattandeep Singh, Humaira Yasmin. "Potential of *Lactobacillus agilis*, *Lactobacillus plantarum*, and *Lactobacillus acidophilus* to enhance wheat growth under drought and heat stress." *Journal of King Saud University-Science* (2024): 103334.

Book Chapters Published

- Chapter, ‘Potential Use of Garlic for Control of Drug-Resistant Bacteria’. 2023. has been published in book entitled, ‘Complementary and Alternative Medicine: One Health Perspective. FAHUMSCI An Academic Publisher. ISBN:978-627-7745-01-1.

Abstracts Published in Conference

- Abstract, ‘Characterization of *S. aureus* from skin and wound infection was published in international conference on infectious diseases and nano medicine at Kathmandu Nepal 15-18th December 2015.
- Abstract, Prevalence and trend of Hepatitis C Virus infection in healthy blood donors, was published in 9th Annual Public Health Conference 2018 “Local To Global” December 4th - 5th, 2018, Health Services Academy, Islamabad, Pakistan
- Abstract, Prevalence of rifampicin resistance with respect to quantitative analysis of *Mycobacterium Tuberculosis* in Pulmonary Samples, was in published in 9th Annual Public

Health Conference 2018 “Local To Global” December 4th -5th, 2018, Health Services Academy, Islamabad, Pakistan.

- Abstract, Occurrence of *Syphilis* in association with HIV patients in Pakistan, was in published in 9th Annual Public Health Conference 2018 “Local To Global” December 4th - 5th, 2018, Health Services Academy, Islamabad, Pakistan.
- Abstract, Assessment of sterilization techniques of surgical equipments in DHQ hospital, Dir Lower, was in published in 9th Annual Public Health Conference 2018 “Local To Global” December 4th -5th, 2018, Health Services Academy, Islamabad, Pakistan.

Poster presented/Workshops/Conference

- Organized and attended seminar on ‘the science of fasting, at Iqra University Islamabad Campus Chak Shahzad with collaboration of NAYS Pakistan, held 27th April, 2022.
- Organized and attended seminar on ‘Gallbladder & Bile Duct cancer awareness’ in Iqra University Islamabad Campus Chak Shahzad with collaboration of NAYS Pakistan, held 27th February, 2021.
- Posters presented in 9th Annual Public Health Conference 2018 “Local To Global” December 4th -5th , 2018, Health Services Academy, Islamabad, Pakistan
- Organized and attended seminar on ‘cancer awareness’ in Abasyn University with collaboration of NAYS Pakistan, held 27 September 2018.
- Organized and attended workshop ‘biosafety for young scientists’ in Abasyn University with collaboration of NTRL, NAYS and Sure Bio Diagnostics, held 5th April 2018.
- Poster presentation in a regional workshop on biosafety and biosecurity in life sciences research, 26 – 28 April 2016.
- Poster presentation in National Centre of Physics (NCP) Islamabad at 13th January, 2016 on “Multidrug resistance bacterial isolates from hospital”.
- Presented poster in a national seminar on ‘Biotechnology for development’ held in USTB, June 2008.
- Presented poster in a national seminar on ‘Genetics, The key to solve health hazard and socioeconomic problems’ held in USTB, November, 2008.

Supervision of students

MPhil Microbiology (Completed)

- Roshan Ali (2023) Screening of Red Cell Concentrates for Bacterial Contamination in tertiary care Hospital, Blood Bank’s Rawalpindi and Islamabad. Abasyn University Islamabad Campus.
- Faisal Shahzad (2023) Molecular Characterization and Antibiotic Resistance Profile of *Salmonella enteritidis* and *Salmonella typhimurium* isolated from Raw Beef in Districts Attock and Chakwal. Abasyn University Islamabad Campus.
- Fakhre Alam (2023) Prevalence of *inVA* Virulence Gene in *Salmonella* spp. Isolated from Raw Mutton and Poultry from District Chakwal. Abasyn University Islamabad Campus.
- Arifa Mughal (2021) Antibigram and identification of *hlyA* gene in *Listeria monocytogenes* isolated from *Labeo rohita* a fish samples. Abasyn University Islamabad Campus.
- Bushra Urooj (2020) Diversity of Gut Related Bacterial Strains of *Bubalus bubalis* and Identification of Probiotic Bacterial Species. Abasyn University Islamabad Campus.

- Farzana Sadiq Abbasi (2020) Antimicrobial Resistance Profile of Lactic Acid Bacteria Isolated from the Milk of Nili Ravi Buffalo of Rawalpindi and Islamabad Regions. Abasyn University Islamabad Campus.

BS. Biotechnology (Completed)

- Mahnoor Rizwan and Amna Zafar (2019) Assessment of Rust Gene in Pakistani Wheat Varieties. Abasyn University Islamabad Campus.
- Syed Wajih ul Hassan and Zeeshan Arfan (2018) Species Isolation of *Pseudomonas*, *Actinomyces* and *Lactobacillus* from Rhizosphere of Garlic and Onion Plants and Evaluating their PGPR Activities. Abasyn University Islamabad Campus.
- Shabab Hussain and Syed Adnan Ali Kazmi (2018) Comparative and Synergistic Anti-oxidative Studies of the Extracts from *Ocimum sanctum* and *Mentha*. Abasyn University Islamabad Campus.

BS. Microbiology (completed)

- Ashraf and Iqra (2020) Isolation of antagonistic bacteria from soil (2019).
- Touseef Ejaz Satti and Tabassum Naz (2019) Susceptibility Profile of Methicillin Resistant *S.aureus* Isolated from Urine and Wounds Samples.
- Muhammad Blawal, Noman Khalid and Haseeb Khalid (2019) Antimicrobial Susceptibility Profile of Methicillin Resistant *S.aureus* at Health Care Settings, Islamabad.
- Basharat Ullah Khan and Liaqat Muhammad (2019) Evaluation of Antimicrobial, Antioxidant and Hemolytic Activities of *Saccharomyces cerevisiae* isolated from Peels and Rhizosphere of Different Plants. Abasyn University Islamabad Campus.

M.Sc. Microbiology (completed)

- Sikander Khan and Kafil ur Rehman (2020) Evaluation of Microbial Contamination from Tools Used in Beauty Salons in Different markets of Islamabad. Abasyn University Islamabad Campus.
- Aiman and Maria Saeed (2020) Biochemical and Molecular Characterization of *Bacillus* Strains from Nili Ravi Buffalo.
- Tehreem zaher and Sadia Tariq (2020) Prevalence of pathogenic bacteria from UTI
- Asifa akber and riffat (2020) Review on Dengue and COVID-19 virus globally.
- Anees and Mehwish (2020) Prevalence and Antibiotic Sensitivity of Methicillin and Oxacillin Resistant *Staphylococcus aureus*.
- Shaista Zahid and Noma (2020) Prevalence of Methicillin Resistant *Staphylococcus aureus* found in Various Samples.
- Muqadas and Anum (2019) Assessment of control system for sterile production of medical, pharmaceutical, cosmetics and food products.
- Saud Rehman and Waqas Ahmad [2019] Assessment of Biosafety Standards in Health Care Center of Islamabad

- Nazeer Iqbal Khan and Noraiz Ali (2019) Extended Spectrum of B-Lactamase (ESBLs) Producing Pathogen in Urinary Tract Infection among the Patients at Holy Family Hospital Rawalpindi.
- Haris Ali (2019) Prevalence of *Helicobacter Pylori* in Rawalpindi & Islamabad Regions. Abasyn University Islamabad Campus.
- Shafiq ur Rahman (2019) Present Scenario of Malarial Parasite in District Shangla, Khyber Pakhtunkhwa. Abasyn University Islamabad Campus.
- Azmat Anwar (2018) Assessment of Sterilization Technique of Surgical Equipments in DHQ Hospital, Dir Lower. Abasyn University Islamabad Campus.
- Sahil Akber (2018) Comparison of Direct vs Concentrated Smear Microbiology in Endobronchial Washing Specimens for Detection of Acid Fast Bacteria. Abasyn University Islamabad Campus.
- Izza Nisar (2018) Prevalence of Hepatitis D Virus in Apparently Healthy Hepatitis B Positive Patients. Abasyn University Islamabad Campus.
- Tariq Amin (2018) Prevalence of Typhoid Fever in the Children of Rawalpindi and Islamabad Regions. Abasyn University Islamabad Campus.
- Roshan Ali (2017) Study of Blood Groups and Prevalence of β -Thalassemia in District Swat. Abasyn University Islamabad Campus.
- Muhammad Ali Hussain (2017) Quantitative analysis of *Mycobacterium tuberculosis* in pulmonary samples. Abasyn University Islamabad Campus.
- Izat Ullah Khan (2017) Epidemiological studies of *Escherichia coli* in urinary tract infections and its antimicrobial pattern in Rawalpindi region. Abasyn University Islamabad Campus.
- Asad Ali Khan (2017) Prevalence of syphilis in HIV patients of Pakistan. Abasyn University Islamabad Campus.
- Niaz Ahmed (2017) Smoking effects on triglyceride level in heart patients. Abasyn University Islamabad Campus.
- Syed Adnan Ali (2017) A study of NS1 antigen test an early diagnostic test in dengue fever: A correlation with CBC parameters. Abasyn University Islamabad Campus.
- Mumtaz Hussain (2016) Prevalence of hepatitis B and hepatitis C in District Jhang. Abasyn University Islamabad Campus.
- Muhammad Sadiq (2016) Susceptibility pattern of coagulase negative *staphylococci* isolated from blood samples. Abasyn University Islamabad Campus.
- Sahid Ali Qazi (2016) Antimicrobial properties of traditional *eruca sativa* seed oil: comparison with aerial and root plant extracts. Abasyn University Islamabad Campus.
- Nazeer Hussain (2015) Prevalence and antimicrobial susceptibility pattern of *methicillin resistant staphylococcus aureus* (MRSA) isolates in Islamabad. Abasyn University Islamabad Campus.
- Amar Riaz (2015) Pattern of clinical pathogens isolated from pus samples and their antibiotics susceptibility in Rawalakot, AJK. Abasyn University Islamabad Campus.

- Majid Raza Khan (2015) Prevalence and antimicrobial susceptibility pattern of bacterial isolates in septicemia suspected patients, Islamabad. Abasyn University Islamabad Campus.
- Akhlaq Wazeer (2015) Spectrum of uropathogens and their antimicrobial susceptibility profile in Mirpur, AJK. Abasyn University Islamabad Campus.

Key skills

- Punctual, Responsible and hard working.
- Can manage critical situations.
- Having good public relation & Interpersonal Skills.

Career interest

- Microbial Research centres.
- Molecular and Health Research Sector.
- Biotechnological Industrial Sector.
- Teaching and administrative

Research Interest

- Zoonotic Diseases, Antibiotic Resistance, Probiotics, Environmental microbiology

References

- Dr. Rahmat Ali Khan, U.S.T Bannu (03145796104)
- Prof. Sana Ullah Khan, G.P.G College Bannu (03329734656)
- Dr. Laila Jaffri, HOD Life Sciences, Abasyn university
(laila.jafri@abasynisb.edu.pk) 03006894673
- Dr. Humaira Yasmin, COMSATS University (humaira.yasmin@yahoo.com)
- Dr. Muhammad Akhlaq Mughal, HOD Pharmacy dept Abasyn University Islamabad Campus
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