



Dr. Waqas Ahmad (Ph.D.)

Date of birth: 14 Sep 1984 | **Nationality:** Pakistani | **Phone:** (+92) 03193703584 (Mobile) | **Email:**

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Address: House 21, steet 15, Y Block, Peoples colony, 52260, Gujranwala, Pakistan (Home)

ABOUT MYSELF

Proactive researcher with continued national and global 10 plus experience, specialized in drug research & development of novel formulations, with the ability to work independently with creativity and enthusiasm as well as could effectively execute a project at all levels from experimentation to data collection and drafting of a manuscript. Great passion for the field of biomedical science in general and nanomedicine in particular. Strategic thinker and self-motivated personality who possess excellent Communication, Analytical, Consultation, Relationship Management, Critical Analysis, and Leadership skills. I always welcome in hearing my researchers and professors, so feel free to contact.

WORK EXPERIENCE

 **THE UNIVERSITY OF LAHORE** – LAHORE, PAKISTAN

ASSISTANT PROFESSOR – 26 SEP 2023 – CURRENT

Academic duties

- Research, teaching, and training of undergraduate and postgraduate students
- Course content designing and monitoring
- Academic planner designing and monitoring
- Prepare and deliver lectures to students and conduct laboratory sessions or discussion groups
- Prepare, administer and grade examinations, laboratory assignments and reports
- Advise students on course and academic matters and career decisions
- Conduct research in field of specialization and publish findings in scholarly journals or books

Administrative duties

- Member Quality control Laboratory
- Member departmental review committee
- Lab in-charge (Microbiology)

 **RASHID LATIF KHAN UNIVERSITY** – LAHORE, PAKISTAN

ASSISTANT PROFESSOR – 12 SEP 2022 – 26 SEP 2023

Head of the Department (Pharmaceutics)

- Academic planner designing and monitoring
- Evaluation & quality monitoring of academic lectures
- Course content designing and monitoring
- Prepare and deliver lectures to students and conduct laboratory sessions or discussion groups
- Prepare, administer and grade examinations, laboratory assignments and reports
- Advise students on course and academic matters and career decisions

Time Table Incharge

Correspondance with Pharmacy council of Pakistan

Admission commnitte In-charge

Drafting official notices and letters

Member of disciplinary committee Rashid Latif college of Pharmacy

Class coordinator of final profession students

Incharge Quality control Laboratory

Advise students on course and academic matters and career decisions

In charge Research cell & committee

Supervision of student's research projects

Supervision of faculty's research projects

Coordinator of industrial research projects

In charge publication committee

Member edidotrial board of the institutional journals (Journal of Rashid Latif Khan university & Journal of Rashid Latif College of Pharmacy)

Member edidotrial board of college magazine 'Hygeia'

Member college event committe

Any other duties as required or assigned which are reasonably within the scope.

 **INSTITUTE OF PHARMACEUTICAL TECHNOLOGY, UNIVERSITY OF BONN** – BONN, GERMANY

Fabrication of polymeric nanoparticles, lipid nanoparticles, nanocapsules, through different techniques
Photon correlation spectroscopy for nanoparticle characterization nanoparticle purification methods
Drop shape analysis for interfacial tension & sessile contact angle measurement
Rotational viscometry for viscosity determination
Surface hydrophobicity quantification of nanoparticles
Cytotoxicity determination onto mammalian cells in culture
Bioconjugation of active pharmaceutical ingredient & pharmacokinetic studies
Fluorometric quantification of cell-nanoparticle interaction
Confocal microscopy for localization of nanoparticles inside cells (cell imaging) (Nikon Eclipse A1)
Invitro anticancer efficacy quantification through anti-proliferative assay, caspase 3/7 assay, cell cycle analysis (flow cytometry)
Invivo anticancer efficacy through tumour allografts murine model
Agarose Gel Electrophoresis and documentation
Chromatographic techniques, especially High-performance liquid chromatography
Direct and Indirect enzyme-linked immunosorbent assay (ELISA)
Spectrophotometry for Biomolecules
Western blotting (Bio-Rad Laboratories)
Chorioallantoic membrane (CAM) assay for angiogenesis studies
Antiviral activity determination
Protein quantification methods
Protein delivery through nanoparticles
Ultracentrifugation, Freeze-drying techniques
in vitro skin permeation assay using Franz cell
Microtome for tissue slicing,
Differential Scanning Calorimetry
Langmuir trough apparatus
Immunohistochemistry of excised tissue
Microtome sectioning
Culturing and transfection of mammalian cells
Scientific report/project writing

 **THE UNIVERSITY OF LAHORE** – LAHORE, PAKISTAN

LECTURER – 30 JUN 2011 – 28 OCT 2012

Planned and prepared appropriately the assigned courses and lectures for undergraduate and postgraduation classes.
Conducted assigned classes at the scheduled times.
Implemented the designated curriculum completely and in due time.
Tried to build students' ability to work collaboratively with others.
Engaged students in creative thinking and integrated or interdisciplinary learning experiences.
Provided opportunities for students to access and use current technology, resources and information to solve problems.
Engaged students in active, hands-on, creative problem-based learning.
Applied appropriate multiple assessment tools and strategies to evaluate and promoted the continuous intellectual development of the students.
Assigned reasonable assignments and homework to students as per university rules.
Evaluated students' performances in an objective, fair and timely manner.
Recorded and reported timely the results of quizzes, assignments, mid- and final semester exams.
Used student assessment data to guide changes in instruction and practice, and to improve student learning.
Complied with policies, standards, rules, regulations and procedures of the university.
Prepared and maintained course files.
Took precautions to protect university records, equipment, materials, and facilities.
Attend and participated in faculty meetings and other assigned meetings and activities according to university policy.
Provided and accepted evaluative feedback in a professional manner.
Carried out any other related duties assigned by the department chairman.
Promoted the safety and wellbeing of students.
Invigilated examinations.

 **HEALTH POINT PHARMCY** – LAHORE, PAKISTAN

PHARMACIST – 1 JUN 2009 – 29 SEP 2009

Advised Physicians of any abnormality in the prescription and/or if the medication prescribed is not available in stock.
Assigned assistant pharmacists and other Pharmacy personnel in the work area and schedules day-to-day work to assure effective manpower utilization and accountability in coordination with Pharmacy manager.
Developed positive business relationships with customers and suppliers at the Pharmacy level to achieve growth.
Ensured exceptional customer service as per standard operating procedures (SOPs) and training manuals.
Dispensed and counselled at a professional level and provide exceptional customer service experience.
Assured pharmacy confidentiality and patient privacy at a high priority.

 **FAZAL DIN PHARMA PLUS** – LAHORE, PAKISTAN

PHARMACY MANAGER & PHARMACIST – 1 OCT 2009 – 31 MAY 2011

Interpreted each prescription before filling to ascertain if strength and dosage prescribed are within patient tolerance.

Reviewed patient profile to check for: Drug vs Drug Interaction; Drug vs Patient Allergies; and Drug vs Patient Diet Restriction and dosage suitability.

Advised Physicians of any abnormality in the prescription and/or if the medication prescribed is not available in stock.

Assigned the assistant pharmacists and other Pharmacy personnel in the work area and schedules day-to-day work to assure effective manpower utilization and accountability in coordination with Pharmacy manager.

Developed positive business relationships with customers and suppliers at the Pharmacy level to achieve growth.

Ensured exceptional customer service as per standard operating procedures (SOPs) and training manuals.

Dispensed and counselled at a professional level and provide exceptional customer service experience.

Assured pharmacy confidentiality and patient privacy at a high priority.

Maintained a healthy stock level and liquidated all near expires to reach to zero expiries of OTC, and chronic medicines.

Rendered safe and effective pharmaceutical service to all clients.

Charged line items through the Computer Operator who is responsible for entry in the computer.

Performed on shift and is expected to be on call for emergencies as required.

Estimated monthly controlled drug requirements and initiated storehouse orders for the area use to be approved by the Branch manager, if assigned as in-charge of narcotics and controlled drugs.

EDUCATION AND TRAINING

31 MAR 2022 Bonn, Germany

DOCTOR OF PHILOSOPHY (PH.D. PHARMACEUTICAL SCIENCES) Die Rheinische Friedrich-Wilhelms-Universität

Cancer therapy, Nanomedicine, Phytochemistry, Design and synthesis of biomaterials, Strategies to overcome multidrug resistance

Field of study Nanomedicine | **Final grade** Magna cum Laude (with great praise) | **Thesis** Saponins-Loaded nanoparticles for cancer therapy

30 AUG 2011 Lahore, Pakistan

MASTER OF PHILOSOPHY (MPHIL, PHARMACOLOGY & TOXICOLOGY) University of veterinary and animal sciences

Antiviral Therapy, Phytomedicine

Field of study Pharmacology & Toxicology | **Final grade** 3.82/4 |

Thesis Evaluation of antiviral and cytotoxic activity of medicinal plants extracts against Infectious Bursal Disease Virus

29 JUN 2009 Lahore, Pakistan

DOCTOR OF PHARMACY (PHARM.D, PHARMACEUTICAL SCIENCES) University of the Punjab

Pharmaceutical Technology, Microbiology, Pharmacology, Pharmaceutical chemistry, Pharmacokinetics, Clinical Pharmacy, Industrial Pharmacy

Field of study Pharmaceutical sciences | **Final grade** First division | **Thesis** -

14 SEP 2009 Lahore, Pakistan

POST GRADUATION TRAINING (ORIENTATION PROGRAM) University of veterinary and Animal sciences, Lahore

Post graduation student Orientation program

Address Out fall road Lahore, 54000, Lahore, Pakistan

PUBLICATIONS

Publications

[2021]

Polymeric matrix hydrophobicity governs saponin packing-density on nanoparticle surface and the subsequent biological interactions. Journal of Colloid and Interface Science 596: 500-513.

[2023]

Development and characterization of letrozole-encapsulated polymeric beads for sustained release. Pakistan Journal of Pharmaceutical Sciences 36.

[2014]

Exploration of the in vitro cytotoxic and antiviral activities of different medicinal plants against infectious bursal disease (IBD) virus. Central European Journal of Biology 9: 531-542.

[2024]

Nanomaterials For Environmental Remediation: Advances In Water, Air, And Soil Pollution Mitigation. Nanotechnology Perceptions 20(5): 762-790.

[2024]

Examining the therapeutic impact of Passiflora Nitida kunth extract on neurodegeneration in an experimental Alzheimer's model. Journal of Population Therapeutics and Clinical Pharmacology 31(2): 2112-2118.

[2024]

Advantages of using liposome-encapsulated antibiotics to fight infections caused by

enterobacteria. Journal of Population Therapeutics and Clinical Pharmacology 31(9): 731 -740.
[2023]
Statistical survey of depression associated with covid-19 related isolation among medical and non-medical population in lahore. Journal of Population Therapeutics and Clinical Pharmacology 30(17): 1611-1618.
[2024]
Neuroprotective Activity of Olea Europaea and Malus Domestica in Stroke Model of Albino Rat. Advances in Pharmacology and Pharmacy 12(1): 34 - 43.
[2024]
Prevalence of undiagnosed diabetes mellitus among patients presenting with acute coronary syndrome (ACS) Biological and Clinical Sciences Research Journal 2024(1): 1-4.
[2023]
Control synthesis of mesoporous silica microparticles: Optimization and in vitro cytotoxicity studies. Pakistan journal of pharmaceutical sciences 36(3): 915-920.
[2023]
RP-HPLC method to assay ethinylestradiol and drospirenone with 3D chromatograph model in fixed dose in rat plasma for pharmacokinetic study analysis. Pakistan Journal of Pharmaceutical Sciences 36(4(Special)):1319-1324.
[2024]
Combating Antimicrobial Resistance With Nanotechnology Developing New Antimicrobial Agents And Coatings. Nanotechnology Perceptions 20(5):734-761.
[2024]
Crispr-Engineered Microbes For Enhanced Biodegradation Of Recalcitrant Pollutants A Genomic Approach To Environmental Remediation. Frontiers in Health Informatics, 13 (3), 8281-8304.
[2024]
A Novel Pyridine Derivative Exhibits Potent Anti-Inflammatory and Analgesic Effects: Insights from In Silico and In Vivo Evaluations. Lat. Am. J. Pharm. 43 (12): 2678-88.
[2024]
Assessment of Adverse Drug Reactions and Risk Factors Associated with First-Line Anti-Tuberculosis Therapy. Science International Sci-Int.(Lahore),36(6),395-399.
[2025]
Punica Granatum's Bark Extract Exhibits Anti-Conversant Effects: In-Silico and In-Vivo Assessments. Lat. Am. J. Pharm. 44 (2): 155-64.

SKILLS

Microsoft Word | Microsoft Excel | Outlook | Microsoft Powerpoint | Microsoft Office | Zoom | Power Point | Google Drive | Google Docs | TURNITIN | Graphpad Prism | ChembioDraw15 | BioRender | Good knowledge of ImageJ software | Endnote reference manager | Ref-N-Write | Writing (Copywriting, Creative writing, Article writing) | SWAN freeware | Editage software

LANGUAGE SKILLS

Mother tongue(s): **URDU, ENGLISH**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B2	B2	C1
GERMAN	B2	B1	B1	B2	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

HONOURS AND AWARDS

First division throughout academic period

5 JAN 2014
HEC Overseas scholarship for doctoral studies in Germany – Higher education commission, Pakistan

13 JUL 2004
Merit scholarship award for undergraduate studies – The university of the Punjab

12 JUL 2000
Good standing award – Deputy commissioner (Education)

Good performance during matriculation board examination

● WORKSHOPS/SEMINARS/TRAINING COURSES

14 FEB 2017

One day workshop on technique in Cancer cell Biology

Institute of Microbiology and Molecular Genetics, The University of Punjab

11 SEP 2015 – 22 SEP 2015

Animal handling for research purposes

Haus für Experimentelle Therapie (HET), Uniklinikum Bonn

7 JUN 2015

How to Write a Scientific Manuscript for High Impact Factor Journal

Institute of Pharmaceutical Technology, University of Bonn, Germany

8 MAR 2011 – 9 MAR 2011

Environmental Toxicology and Health

The University of Veterinary and Animal Sciences, Lahore

8 FEB 2011

Use of Endnote Software for Citation and Referencing in Research

The University of Veterinary and Animal Sciences, Lahore

4 OCT 2010 – 7 OCT 2010

Evaluation of Antiviral and cytotoxic activity of different herbal extracts and commercial Pharmaceuticals in-vitro cell culture

The University of Veterinary and Animal Sciences, Lahore

1 JUN 2010 – 8 JUN 2010

Modern Techniques in Angiogenesis and Toxicology

● NETWORKS & MEMBERSHIPS

15 MAY 2022 – CURRENT France

Euroscience

10 FEB 2021 – CURRENT Berlin

Deutsche Forschungsgemeinschaft (German Research Foundation)

10 SEP 2020 – CURRENT

European science Foundation

2 MAY 2020 – CURRENT Berlin

European Educational Research Association

15 JAN 2013 – CURRENT Bonn

German Academic Exchange Service (DAAD)

1 JAN 2013 – CURRENT

Higher Education commission, Pakistan

● RECOMMENDATIONS

Prof. Dr. Alf Lamprecht Professor

Doctoral dissertation supervisor

Email lamprech@uni-bonn.de | Phone (+49) 228735243

Prof. Dr. Karl Wagner Professor

Ph.D. research co-supervisor

Email karl.wagner@uni-bonn.de | Phone (+49) 228735271

Prof. Dr. Nadeem Irfan Bukhari Dean, College of Pharmacy, PU Lahore

Teacher, mentor,

Email nadeem_irfan@hotmail.com | Phone (+92) 3004259738

● ORGANISATIONAL SKILLS

Organisational skills

Analytical thinking, problem solving and planning help me to make my life well organized.

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Optimal communication skill I have gained through patient counselling in field and research works in a laboratory with colleagues.

Able to work under pressure and meet deadlines as I have completed my research timely and efficiently.

Leadership qualities I have gained through working as a manager/supervisor in the biggest drug store.

I prefer to work in a team.

Good adaptability and tolerance to stressful situations because I am living more than ten years outstations.