

SAMI ULLAH

PharmD | MPhil Researcher, Pharmacogenomics & Drug Delivery
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PERSONAL STATEMENT

As a dedicated pharmacist and MPhil researcher specializing in pharmacogenomics and advanced drug delivery systems, I have developed a strong interdisciplinary foundation combining pharmaceutical sciences, analytical techniques, and applied research methodologies. My academic training and industry experience in cGMP-regulated environments enable me to design innovative drug delivery systems, evaluate formulation performance, and ensure product quality and regulatory compliance.

I am particularly inspired by research in personalized medicine, oncology therapeutics, and nutraceutical drug development, with a focus on integrating pharmacogenomic insights into formulation design. My long-term goal is to contribute to the development of safe, effective, and patient-centric pharmaceutical products through advanced research and global collaboration.

RESEARCH OBJECTIVE

To develop and optimize advanced pharmaceutical formulations and pharmacogenomic-based therapeutic strategies for improved drug efficacy, safety, and patient compliance. My objective is to integrate drug delivery systems, genetic profiling, and analytical evaluation techniques to contribute to innovative research in oncology, metabolic disorders, and personalized medicine.

RESEARCH INTERESTS

Pharmacogenomics & Personalized Medicine

- Investigating gene–drug interactions (CYP450, DPYD polymorphisms) to optimize individualized therapies

Advanced Drug Delivery Systems

- Designing sustained, controlled, and targeted release formulations for improved therapeutic outcomes

Nutraceutical & Herbal Formulations

- Developing sugar-free and plant-based formulations for metabolic disorders and chronic disease management

Oncology Drug Development

- Enhancing cancer pharmacotherapy through modified-release formulations and reduced toxicity profiles

Biopharmaceutics & Pharmacokinetics

- Studying drug absorption, distribution, metabolism, and release kinetics using modeling approaches

EDUCATION

MPhil in Pharmaceutical Sciences

2024 – Present

Kohat University of Science and Technology (KUST), Pakistan

- CGPA:** 3.54/4.00
- Thesis:** Sustained-Release Capecitabine Tablets for Oncology Applications
- Research Project:** Sugar-Free Nutraceutical Syrup for Hypoglycemic Management
- Relevant Coursework:** Advanced Pharmacology, Drug Design, Pharmacokinetics, Biopharmaceutics

Doctor of Pharmacy (PharmD)

2018 – 2023

Kohat University of Science and Technology (KUST), Pakistan

- CGPA:** 3.16/4.00
- Relevant Coursework:** Pharmaceutics, Clinical Pharmacy, Pharmacognosy, Medicinal Chemistry, Toxicology

MASTER’S RESEARCH PROJECT

Title: Formulation and Evaluation of a Sugar-Free Appetizer Syrup Containing Natural Oral Hypoglycemic Nutraceuticals (Bitter Melon, Fenugreek, Cinnamon, Gymnema sylvestre)

- Objective:**
To develop a patient-friendly, sugar-free nutraceutical syrup incorporating natural hypoglycemic agents to aid glycemic control, particularly for pre-diabetic and diabetic populations, while maintaining taste, stability, and therapeutic efficacy.

ACADEMIC RESEARCH & PROJECTS

Sustained-Release Capecitabine Tablets (MPhil Research) KUST 2024 – Present

- Developed polymer-based sustained-release Capecitabine tablets using HPMC and Ethylcellulose polymers.
- Conducted comprehensive dissolution studies, stability testing, and drug–excipient compatibility analysis.
- Applied pharmacogenomic profiling to evaluate CYP2A6 and DPYD gene polymorphisms effects.
- Performed analytical quantification using UV/Vis spectrophotometry and HPLC instrumentation techniques.

Sugar-Free Hypoglycemic Nutraceutical Syrup 2024 – Present

- Formulated sugar-free herbal syrup using Bitter Melon, Fenugreek, Cinnamon, Gymnema sylvestre.
- Evaluated physicochemical properties, stability, and therapeutic potential of herbal formulations.
- Designed patient-friendly nutraceutical syrup targeting effective glycemic control in diabetic populations.

Sustained-Release Matrix Systems (Research Assistant) KUST 2022 – 2023

- Assisted in developing sustained-release formulations using hydrophilic polymer matrix systems.
- Conducted in vitro dissolution testing and analyzed drug release kinetics accurately.
- Contributed to literature reviews, research reports, and manuscript preparation tasks.

PROFESSIONAL EXPERIENCE

Herbiotics Health Care, Pakistan | Quality Assurance Officer (In-Charge) 2023 – Present

- Ensured compliance with cGMP standards throughout manufacturing, packaging, and distribution processes effectively.
- Reviewed and approved batch records, SOPs, validation reports, and analytical documentation accurately.
- Led CAPA investigations addressing deviations, non-conformances, and audit observations systematically.

Retail Pharmacy Practice | Community Pharmacist 2023 – Present

- Dispensed prescription and OTC medications while providing counselling for safe and proper usage.
- Managed pharmacy inventory, handled drug interaction queries, and ensured regulatory compliance consistently.
- Contributed to healthcare awareness through creating educational content and communication strategies.

CERTIFICATIONS & TRAININGS

- Pharmaceutical Quality Assurance & cGMP Training
- Research Methodology & Scientific Writing Workshops
- Pharmacovigilance & Drug Safety Training

TECHNICAL SKILLS

Pharmaceutical Formulation & Drug Delivery:

- Designing sustained and controlled-release oral solid dosage formulations for oncology applications.
- Developing sugar-free nutraceutical syrups and herbal formulations for metabolic disorder management.
- Optimizing polymer-based matrix systems using HPMC, Ethylcellulose, and hydrophilic polymers.

Analytical & Laboratory Techniques:

- Conducting UV/Vis spectrophotometry and HPLC analyses for drug quantification and stability testing.
- Performing in vitro dissolution testing, accelerated stability studies, and drug–excipient compatibility evaluations.
- Applying ICH guidelines for stability, analytical validation, and regulatory documentation processes.

Pharmacogenomics & Personalized Medicine:

- Profiling CYP2A6 and DPYD gene polymorphisms to evaluate patient-specific drug metabolism.
- Investigating gene–drug interactions to optimize therapeutic outcomes and reduce adverse drug reactions.
- Integrating pharmacogenomic data into formulation development and clinical pharmacotherapy strategies.

Data Analysis & Statistical Skills:

- Utilizing SPSS, GraphPad Prism, and Microsoft Excel for pharmacokinetic and dissolution data analysis.
- Performing statistical analyses including regression, correlation, and hypothesis testing for research interpretation.
- Modeling drug release kinetics and evaluating experimental results for formulation optimization.

Quality Assurance & Regulatory Compliance:

- Ensuring adherence to cGMP, CAPA, SOPs, and regulatory requirements in pharmaceutical production.
- Reviewing batch manufacturing records, performing audits, and maintaining robust quality documentation.
- Leading corrective actions and preventive measures for deviations and product non-conformances.

Scientific Writing & Communication:

- Preparing manuscripts, literature reviews, and research reports for academic and professional publication.
- Presenting research findings at seminars, conferences, and academic discussions effectively.
- Developing educational content and patient-centered communication for healthcare awareness campaigns.

LANGUAGES

- Urdu / Pashto (Native)
- English (Fluent – Academic & Professional)
- Arabic (Basic Reading)

ACADEMIC SERVICE & COMMUNITY ENGAGEMENT

- Assisted peers and junior researchers in formulation studies and academic research activities
- Participated in departmental research discussions, seminars, and academic collaborations
- Contributed to knowledge sharing and mentoring in pharmaceutical sciences
- Engaged in community awareness regarding safe medication practices and healthcare education

EXTRACURRICULAR & VOLUNTEER EXPERIENCE

- Contributed to community healthcare awareness initiatives and patient counselling activities
- Participated in academic and research-based seminars, workshops, and pharmaceutical conferences