

# GAZI AMENA NOOR SHAMITA

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## EDUCATION

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Doctor of Philosophy in Clinical Translational Science	07/2023- Present
<b>School of Medicine, Case Western Reserve University</b> , Cleveland, Ohio	
Master of Science in Regenerative Medicine and Entrepreneurship	08/2021-01/2023
<b>School of Medicine, Case Western Reserve University</b> , Cleveland, OH	
Bachelor of Science in Microbiology and Biotechnology	01/2017- 12/2020
<b>College of Natural and Applied Sciences, Missouri State University</b> , Springfield, MO	
<ul style="list-style-type: none"><li>• Minor in Chemistry -Emphasis on Analytical Chemistry and Biochemistry</li><li>• Dean's list Spring 2018, Fall 2021</li></ul>	

## RELEVANT SKILLS & COMPETENCIES

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### Area of Expertise

- 2 years of biochemical and synthetic chemical drug development
- Comprehensive understanding of drug development from pre-clinical studies to regulatory approval
- Solid knowledge of GMP operations, environmental monitoring, CAPA and contract research/manufacturing

### Laboratory Skills

- Proficient in: Media preparation, isolating bacteria, gram staining, acid-fast staining, wet mounts preparation, preparing dilutions, red blood cell lysis (T cells, B cells, Myeloid cells)
- Experienced in the administration of drugs by injection (gavage, IP, IV, sub-cutaneous), animal handling.
- Molecular and Cell-based methodologies: SDS Page, Immunostaining Bradford Assay, Affinity Chromatography Western & Southern blotting, Sanger sequencing, and analyzing data on Spectrophotometer, Nanodrop-spectrophotometry, magnetic bead separation, CBC cellularity count, fluorescent microscopy, tissue staining, Clonogenic Tissue Culture

### Quantitative Analysis

- Trained to perform aseptic technique, general bacterial identification tests such as oxidative, gram staining, acid-fast staining, and catalase tests.
- Titration, Gravimetric analysis, Instrumental: molecular and atomic spectroscopy, Gas chromatography, Chromatography, Electroplating, Flow cytometry, Nanodrop Spectrophotometry, Mass Spectrometry, Titration, Galvanization, HPLC, HPLC, FTIR, US/VIS, Gas Chromatography, Ion Chromatography,

### Data Analysis

- Formulate statistical and graphical information using Minitab Software, FlowJo, PRISM8, Microsoft Excel
- Sequence DNA, RNA, and Protein in BLAST
- Proficient in primer design for q-PCR using ThermoFisher Scientific -Gene Map and PrimerBlast
- Language: Python
- Database: SQL

### Coursework

- Case Western Reserve University: Foundations in Regenerative Medicine - Stem Cell Biology, Innovative Biotechnology Development and Commercialization SBIR I/II Grant writing- Management, Commercialization and Intellectual Property Management, Nanomedicine, Cell-Molecular Biology-Foundations in disease- FDA regulations- Environmental monitoring, Regulatory affairs
- Missouri State University: Human Genetics, Analytical Chemistry, Organic Chemistry, Cancer biology, Development biology, Pathologic Microbiology, Biochemistry, Immunology, Biostatistics

## PROFESSIONAL EXPERIENCE

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Research Technician II

04/2023-07/2023

McGrail Lab | Center for Immunotherapy and Immuno-Oncology | Lerner Research Institute-Cleveland Clinic | Cleveland, Ohio

- Develop novel immunotherapies and optimize patient stratification for immune checkpoint blockade to improve patient outcomes.
- Analyze large-scale clinical data and experimental models to identify biomarkers and new therapeutic targets to enhance clinical outcomes.
- Proficient in utilizing basic laboratory techniques and equipment operation to perform experiments under supervision, as well as fulfilling general laboratory duties, including maintaining lab supplies, ensuring safety protocols, and keeping meticulous records of experimental data.
- Contribute to translational research for a comprehensive understanding of cancer biology and other complex diseases, with a focus on developing novel therapeutic strategies to improve patient outcomes.

Internship

02/2023-04/2023

Bonfield Lab | National Center for Regenerative Medicine | Case Western Reserve University | Cleveland, Ohio

- Conduct research on the use of mesenchymal stem cells in immunotherapy, with a focus on novel applications for chronic lung inflammation e.g., Cystic Fibrosis, Asthma, bronchopulmonary disease and allergy/anaphylaxis.
- Performed in vitro assays to evaluate mesenchymal stem cell-mediated effects on immune cell function, including T cell activation and cytokine production.

Graduate Research Assistant

03/2022- 08/2022

Desai lab | Case Comprehensive Cancer Center | Case Western Reserve University | Cleveland, Ohio

- Led research on the use of 15- Hydroxy-prostaglandin dehydrogenase inhibition on hematopoietic stem cell (HSC) aging at Desai lab, resulting in the award of ENGAGE scholar award from National Center of Regenerative Medicine securing funding for the project.
- Contributed to the development of novel therapeutic approach for HSC aging using hematopoietic based therapy and presented findings at Case Comprehensive Cancer center and Cleveland Clinic for Regenerative medicine conference.
- Gained expertise in sample preparation and analyzing in-vitro tissues for molecular cell-based methodologies by HSC culture and manipulation, Flow cytometry, Quantitative Polymerase Chain Reaction (qPCR), organ harvest of 60-week-old mice models

Undergraduate Research Assistant

04/2019 – 05/2021

Udan lab | Missouri State University, Springfield, MO

- Assisted with the maintenance and culture of cell lines and primary cells used in cardiovascular development research.
- Assisted with animal surgeries and post-operative care and obtained tissue samples for downstream analysis.
- Record and maintain accurate research documentation and perform initial analyses to identify non-conforming data points and/or interpret outcomes.
  - Data analysis software: Microsoft Excel, LabTracks, Minitab

## LEADERSHIP ROLES

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Vice President

10/2023 – Present

Steiner House Cooperative, Cleveland, OH

- Facilitate communication and collaboration among Steiner House members: organizing monthly meetings, facilitating discussions, and promoting a sense of shared ownership among community members.
- Representing the Steiner House to external groups: by serving as a liaison between the community and other campus organizations, or communicating the community's concerns and priorities to board members and managing social media (Instagram, Facebook, Campus Student group organization)
- Providing support and resources to Steiner House members: offering training or assistance to help community members develop new skills or connecting them with resources and services that can help them achieve their goals.