

# AYESHA SIDDIQUA

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## **PROFESSIONAL SUMMARY**

As an ambitious researcher with a deep passion for clinical research, I am determined to make a difference in the field. With an MSc in Biochemistry and currently pursuing an MPhil in Biological and Biomedical Science, I am committed to expanding my expertise and pushing the boundaries of knowledge. While my background may be in its early stages, my drive and dedication fuel my ambition to excel.

## **EDUCATION**

- **M.PHIL IN BIOLOGICAL AND BIO-MEDICAL SCIENCES** (Pharmacology, Bioinformatics, Neuroscience)  
AGA KHAN UNIVERSITY, KARACHI
- 2023-2024  
**MSC IN BIOCHEMISTRY** (Neuropharmacology, Nutrition and Molecular Biochemistry)  
UNIVERSITY OF KARACHI  
2019-2020
- **B.Sc. (H) IN BIOCHEMISTRY** (Physiology, Chemistry)  
UNIVERSITY OF KARACHI  
2016-2019

## **EXPERIENCE**

**HUMAN NEUROBEHAVIORAL/NEUROSCIENCE INTERN, UNIVERSIDADE CATÓLICA PORTUGUESA. (JUN 2023) (Remote)**

- Engaged in two captivating projects:
  - Studied neural links between consumer behavior and sustainability, utilizing neuroscience techniques to analyze how sustainability messages influence consumer decisions.
  - Explored interpersonal emotional regulation, examining neurophysiological synchrony in dyadic interactions.
- Gained practical experience in:
  - Data collection methods within a neuroscience context.
  - Analyzing collected data to draw meaningful conclusions.
  - Collaborating with experts from various disciplines to enhance project perspectives.
  - Demonstrated strong English fluency, enabling clear comprehension and effective communication of project objectives and outcomes.

**RESEARCH OFFICER, PCMD, ICCBS, UNIVERSITY OF KARACHI. (JAN 2022 – NOV 2022)**

- Lab Experience: Protein Expression and Analysis
  - Skillfully transformed, expressed, and purified proteins in E. coli BL21 cells, achieving an impressive yield of 10 mg/mL.
  - Conducted <sup>1</sup>H Nuclear Magnetic Resonance (NMR) spectroscopy to study and dissect protein structures, contributing to a comprehensive understanding of their characteristics.
- Structural Modeling and Analysis.
  - Developed a Homology model, utilizing advanced techniques to simulate and visualize

- protein structures.
  - Employed predictive methods to generate Ramachandran plots, revealing a protein structure featuring a combination of alpha and beta sheets.
- Collaboration and Assistance
  - Supported M. Phil and PhD students in their ongoing research, actively contributing to the lab's productivity.
  - Assisted with various aspects of day-to-day research, showcasing teamwork and commitment to advancing scientific knowledge.

#### **RESEARCH OFFICER, CENTRE FOR NON-COMMUNICABLE DISEASES, KARACHI.(JULY 2021- NOV 2021)**

- Proficient in applying clinical research regulatory requirements, such as Good Clinical Practice (GCP) and International Conference on Harmonization (ICH) guidelines.
- Experienced in on-site monitoring or possesses an equivalent combination of education, training, and practical experience.
- Conduct outbound calls to follow up with patients.
- Utilized Google Suite, clinical databases, and other relevant software tools proficiently to streamline data management processes, improving productivity and data accuracy.
- Respond promptly to patient communications via email, phone, and texting platforms.
- Maintain and schedule patient appointments.
- Ensure all patient information is being entered accurately.
- Gather patient health history.
- Gather the history of each patient's family member and enroll them in their research.
- Verify the eligibility of patients and enroll participants.
- Performed accurate and efficient data entry for a variety of clinical research-trial projects, ensuring the integrity and confidentiality of sensitive medical information.

#### **RESEARCH INTERN, PCSIR LABORATORIES COMPLEX, KARACHI. (SEP2019-OCT 2019)**

- Completed intensive internship at Pharmaceutical Research Centre, PCSIR Laboratories Complex, Karachi.
- Gained expertise in analytical techniques: HPLC, GC, TLC, and spectrophotometry.
- Learned in-vitro pharmaceutical bioavailability techniques and blood biochemistry.
- Acquired skills in small laboratory animal handling.

#### **Data Collection Expertise:**

- Gathered data through questionnaires and pedigrees.
- Conducted tests like ankle-brachial index, Tanita, and PFTS.

#### **Software Proficiency:**

- Microsoft Office (Word, Excel, Outlook, PowerPoint).
- Sound knowledge related to biostatistics software like STATA, data science, and R.
- Google Drive (Docs, Sheets, Slides, Forms).
- Excel and Google Sheets for spreadsheets.
- Email management including mail mergers, filters, folders, and rules.

#### **CERTIFICATIONS**

- “Human Somatic Cell Reprogramming hiPSCs Derivatives and Culture”  
AKU Centre for Regenerative Medicine and Stem Cell, Issued Jul 2023, Credential ID CRMSR-1011229
- Molecular biology technique  
COMSTECH – ICCBS