

# Saira Asghar

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## **OBJECTIVE:**

To utilize my educational skill and emotional intelligence towards a challenging career in a growth oriented and leading-edge organization that recognizes and values individual contribution and provide opportunities for continuing growth and advancement.

## **PERSONAL INFORMATION:**

Father's Name:	Asgar Ali
N.I.C No:	42201-0447676-4
Nationality:	Pakistani
Domicile:	Karachi – Sindh

## **ACADEMIC QUALIFICATION:**

- Enrolled in **Ph.D. (Pharmaceutical Chemistry)** at the Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi in 2018 under the supervision of Prof. Dr. Nousheen Mushtaq (thesis write up is in completion stage).
- **M.Phil. (Pharmaceutical Chemistry)** from the Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi in 2018 with CGPA 3.975.
- **Doctor of Pharmacy (Pharm-D)** from University of Karachi in 2013 with CGPA 3.585.
- **High School Certificate (Pre-Medical)** in 2007 with Grade A from Govt. Degree College for Boys and Girls, Majeed SRE Stadium Road, Karachi.
- **Secondary School Certificate (Science)** in 2005 with Grade A-one from Little Master's Model School, Asifabad Green Town, Karachi.

## **ACADEMIC EXPERIENCE:**

- Working as Lecturer at the Department of Pharmaceutical Chemistry in Faculty of Pharmacy, **Hamdard University** from June, 2019 till date.

### **Responsibilities include;**

- Conduction of M. Phil theory course (Computational Chemistry and Molecular Modelling)
- Conduction of theory and lab courses (Medicinal chemistry-I theory, Medicinal Chemistry II theory, Medicinal chemistry labs, Pharmaceutical Analysis theory-II, Biochemistry labs).
- Conduction of summer semester theory course (Organic Chemistry-I).
- Designing of lab manual of medicinal chemistry lab.
- Maintenance of medicinal chemistry and organic chemistry as a lab in-charge from 2019 to 2022.
- Editorial head of student's Newsletter "FOP Bulletin" July 2021- 2022.
- Secretary of Departmental Research Committee from Oct 2022 till date.
- Member of faculty Image Building and Seminar Committee.
- Member of faculty Recreational Committee.
- Member of faculty Task Force on University Rankings and Teaching Methodologies.
- Membership of departmental committee (on- invitation member of Board of studies, On- invitation member of Departmental Research Committee).
- Worked as Teaching Assistant in Faculty of Pharmacy, **Hamdard University** from 3<sup>rd</sup> May, 2018 till May 2019.
- As internee pharmacist in **Abbasi Shaheed Hospital** from March, 2012 till Oct, 2012.
- As internee pharmacist in **Indus Pharma** from Dec, 2010 till January, 2011.

## **RESEARCH EXPERIENCE:**

- Three-year experience as M. Phil Research Scholar and four years research experience (2014-2018) as PhD Research Scholar (2019-2023) at the Department of Pharmaceutical Chemistry, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi .
- Working as Principal Investigator on the project entitled as "***In-silico* studies, synthesis, and therapeutic investigation of N-heterocyclic compounds against bacterial infection including Salmonella typhi**" approved by Hamdard University Research Committee (HURC) in 2019.
- 3<sup>rd</sup> runners up on the poster entitled "**Cross-sectional study to evaluate the knowledge and attitudes towards use, self-medication, and resistance of antibiotics in undergraduate students of Karachi**" in the **Undergraduate Research Poster Competition (URPC-2022)** organized by Faculty of Pharmacy, Hamdard University, Karachi on June 1, 2022
- Poster presenter of the paper entitled "**Nutraceutical role of curcumin in the management of Alzheimer's Disease**" in BIOCON-1' 2022 **1st International Conference of Biotechnology** organized by Department of Biotechnology, University of

Karachi on March 16-17, 2022.

- Oral presenter of the paper entitled “**Design and synthesis of the tryptamine analogues as anxiolytics and antidepressants**” in **1st International Conference on Research**

**Perspectives in Pharmaceutical Sciences (ICRPPS)** organized by Faculty of Pharmacy, Hamdard University Karachi on October 23-25, 2019.

- Six research paper are published, 3 are submitted and two research papers are in progress.

## **RESEARCH PUBLICATION:**

- Design, synthesis and therapeutic investigation of tryptamine derivatives as potential antioxidant and amyloid inhibitor/disaggregator. Saira Asghar, Nousheen Mushtaq, Ahsaan Ahmad, Rabya Munawwar, Sumaira Ansari, Syeda Abiha Rizvi. Research Journal of Pharmacy and Technology, Aug 2023, Vol 16, No. 8.
- Comparison of Outcome and Complications of Myocardial Infection with and without Streptokinase Therapy. Shaima Sultana Memon, Amara Ilyas Khan, **Saira Asghar**, Safia Abidi, Ghazala Raza Naqvi, Muneeza Lodhi, Sumreen Mujahid. Tobacco Regulatory Science, Vol 9, No. 1, 2023, 1111-1116
- Tryptamine Analogs as Antidepressant and Anxiolytic Agents: Synthesis and In Vivo Evaluation. **Saira Asghar**, Nousheen Mushtaq, Ammara Khan, Shamim Akhtar, Rabya Munawar, Sumaira Ansari, Zafar Saeed Saify. Pharmaceutical Chemistry Journal, Springer US, Vol.56, No.7, October 2022, 918-924.
- Synthesis, biological screening and docking studies of some indole derivatives as potential antioxidant. Sumaira Ansari, Nousheen Mushtaq, Ahsaan Ahmed, **Saira Asghar**, Rabya Munawar, Zafar Saeed Saify. Pak. J. Pharm. Sci., Vol. 35, No. 4, July, 2022, 1117-1124
- A statistical assessment of awareness on antimicrobial resistance and antibiotics use attitude among the university students in Karachi, Pakistan. Rabia Iqtadar, **Saira Asghar**, Afaq Ahmed Siddiqui. J Public Hlth Dev., Vol.20, No.2, May-August 2022, 87-97.
- Computation-based experimentation: Identification of piperazine containing antidepressants. Saman Usmani, Nousheen Mushtaq, Zaheer Ul-Haq, Laila Anwer, Ahsaan Ahmed, **Saira Asghar** and Rabya Munawar. Pak. J. Pharm. Sci., Vol.34, No.3(Suppl), May 2021, 1089-1096.

## **SEMINARS, WORKSHOPS & CONFERENCES:**

- Workshop on **Hands on Practice on Microbiological Screening Methods by Different Culture Techniques of Herbal Extracts on the occasion of World Pharmacist Day-2022** organized by Jinnah College of Pharmacy, Sohail University
- Workshop on **Hands on Practice on Laboratory Animal Handling and Organ Isolation on the occasion of World Pharmacist Day-2022** organized by Jinnah College of Pharmacy, Sohail University.
- One day Hands on Workshop on **Research Advancements in Pharmaceutical Chemistry (Series 2: Molecular Docking and Analysis)** organized by the Department of

Pharmaceutical Chemistry, Dow College of Pharmacy, Dow University of Health Sciences, Karachi on October 28, 2022.

- Organizer in the **Undergraduate Research Poster Competition (URPC-2022)** organized by Faculty of Pharmacy, Hamdard University, Karachi on June 1, 2022.
- Seminar on **How to File a Patent** by Mr. Muhammad Ali Zaidi, Patent Examiner at IPO organized by the Department of Pharmaceutics, Faculty of Pharmacy, Hamdard University on February 4, 2020.
- Organizer in **1st International Conference Research Perspectives in Pharmaceutical Sciences (ICRPPS)** organized by Faculty of Pharmacy, Hamdard University Karachi on October 23-25, 2019.
- Organizer and attendee in workshop on **Application of SPSS in Pharmaceutical Research** held on 3rd January, 2019 at Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Hamdard University.
- Workshop on **Experiential Learning on SPSS** held on 13<sup>th</sup> December, 2018 at Department of Pharmaceutical Chemistry, Faculty of Pharmacy & Pharmaceutical Sciences, University of Karachi.
- Workshop on **Statistical Data Analysis** held on 6<sup>th</sup> December, 2018 at Faculty of Pharmacy, Hamdard University.
- Workshop on **Exam Paper Setting** held on 26th November, 2018 at Faculty of Pharmacy, Hamdard University.
- Organizer and attendee in workshop on **LaTeX document Preparation System for High Quality Typesetting** held on 4<sup>th</sup> February, 2017 at Department of Pharmaceutical Chemistry, Faculty of Pharmacy & Pharmaceutical Sciences, University of Karachi.
- **14<sup>th</sup> Euroasia Conference on Chemical Sciences (EUAsC<sub>2</sub>S-14)** held on Dec15-18, 2016 at International Center for Chemical and Biological Sciences, University of Karachi.
- Workshop on **Cancer Genetics** held on Dec20-23, 2016 at Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi.
- Workshop on **Scientific writing** held on Dec26-28,2016 at International Center for Chemical and Biological Sciences, University of Karachi
- Seminar on **Total Quality Management** held on April 18, 2016 at Department of Pharmaceutical Chemistry, Faculty of Pharmacy & Pharmaceutical Sciences, University of Karachi.

- NASIC Workshop on **Modern Spectroscopic Techniques and Their Applications in Structure Determination** held on dec1-3, 2014 at International Center for Chemical and Biological Sciences, University of Karachi.
- Poster on **Skin Cancer** in the poster exhibition held on 16<sup>th</sup>feb, 2010 at Faculty of Pharmacy, University of Karachi.
- Seminar on **Breast Cancer Awareness** held on 8<sup>th</sup> Oct, 2009 at Sheikh Zayed Islamic Research Center, University of Karachi.
- Seminar on **Role of Pharmacist in Clinical Pharmacy** held on 14<sup>th</sup> Oct, 2009 at Research Institute of Pharmaceutical Sciences, Faculty of Pharmacy, University of Karachi.

### **TECHNICAL SKILLS:**

- UV-Visible Spectrophotometer
- Spectrofluorometer
- Centrifuge and microcentrifuge Apparatus
- Homogenizer Apparatus
- FT-IR Spectrophotometer
- Dissolution Apparatus
- Conductivity meter
- PH-meter

### **COMPUTER SKILLS:**

- MS- Word, MS- Excel, MS-Power Point
- Net Browsing
- Marvin sketch
- CHEM-DRAW
- PyRx (software for computational chemistry)
- Chimera (software for computational chemistry)
- MOE (molecular Operating Environment) software
- SPSS software
- Graph Pad Prism software

### **REFERENCES:**

1. **Prof. Dr. Nousheen Mushtaq**  
Professor  
Department of Pharmaceutical Chemistry,  
University of Karachi.  
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**2. Ms. Saman Usmani**

Assistant Professor

Institute of pharmaceutical Sciences,

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