

AATKA TUL HAKEEM AZHAR

+92 332-159-7649

aatkaazhar786@gmail.com

SPECIALIZATION

Phytochemistry and Natural Products

EDUCATION

MS Phytochemistry and Natural Products (2022-2024) National University of Medical Sciences
Rawalpindi, Pakistan

Bachelor of Education (B.Ed), (2022-2024), Allama Iqbal Open University, Islamabad, Pakistan

Bachelor of Science in Botany (BS Botany) (2017-2021) Viqar-un-Nisa Post Graduate College for
Women, Rawalpindi

EXPERIENCES

School Teacher (Feb. 2023 – Apr. 2023) Iqra Model Secondary School for Girls and Boys, Kallar
Syedan Rawalpindi, Pakistan

School Teacher (Nov. 2021 – Mar. 2022) International Islamic University Islamabad School Chowk
Pindori Campus Kallar Syedan Rawalpindi, Pakistan

Academy Tutor (Apr. 2021 – June 2021) Quaid-e-Azam Academy Kallar Syedan
Rawalpindi, Pakistan

LABORATORY SKILLS

Molecular Biology techniques: Microscopy, Gel Electrophoresis, DNA Extraction, Media
Preparation, Polymerase Chain Reaction, Plant Tissue Culturing

Phytochemistry techniques: Natural product isolation, chromatography and spectroscopy

TRAININGS

- Bioinformatics Short Course (13 Oct. 2024) Genomic Institute Inc. | USA
- Anti-Corruption Society Leader and Participant (4 March 2023) National University of Medical Sciences Rawalpindi, Pakistan
- Herbarium Preparation (May 2021 – Aug 2021) Government Viqar-un-Nisa Post Graduate College for Women Rawalpindi, Pakistan
- First Aid Hands on Training (11-13 Apr 2014) Johannite International German Christian Organization
- Co-organized Awareness on Diabetes through Posters and Video on

RESEARCH INTERESTS

- In-vitro enzyme inhibition assays; alpha amylase and alpha glucosidase inhibitory activity assess antidiabetic activity of plants
- Evaluating antioxidant potential of phytoconstituents of plant species by DPPH, TAC and FRAP assays
- Metallic and bimetallic nanoparticles synthesis by eco-friendly approach (Copper, Zinc)
- Phytochemical analysis of medicinal plant species by TPC and TFC methods
- Antibacterial activities of plant species against different gram positive and gram-negative bacteria and antifungal activities by disc diffusion method

CONFERENCES

- Clinical Trails Summit of Pakistan (16– 17 Feb 2025), Agha Khan University Karachi
- Bridging Biosafety and Biosecurity Gaps 24 Sep. 2024 PMAS Arid Agricultural University, Rawalpindi Pakistan
- Climate Change and Health and Development Consequences In Pakistan; Challenges And Opportunities 1-2 Sep 2024 Institute of Global Health and Development Agha Khan University

- Understanding And Mitigating the Threat Of Emerging Pathogens; Opportunities And Challenges (21– 22 Dec. 2024) Pakistan Academy of Sciences Allied International Organizations For Belt And Road Regions Islamabad Pakistan
- Recent Research And Development In Zoonotic Diseases and DNA Vaccines; Bridging Health And Innovation (26 Feb. 2024) Islamabad Pakistan OIC Ministerial Standing Committee on Scientific and Technological Cooperation (COMSTECH)
- Disruption Of Glymphatic Circulation In Neurotrauma And Environmental Risk Factors (22 Feb. 2024) Pakistan Academy of Sciences, Islamabad, Pakistan
- 26th Psh Annual Haematology Conference (1– 4 Feb 2023) Islamabad Pakistan
- Pandemic Preparedness, One Health; Lesson Learnt (4 May 2021) Pakistan Academy of Sciences, Islamabad, Pakistan
- Agricultural Waste Management and Biogas Technology Webinar (23 Apr. 2021) Central Bicol State University of Agriculture

OTHER ACHIEVEMENTS

- Tehsil Topper Award in Matric
- Certificate of Appreciation in Comparing
- Best Presenter Award
- Oral Presenter at international level