



MARIA HABIB

Gender: Female

Date of birth: 08.05.1994

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Marital Status: Single

OBJECTIVES

Seeking a challenging position where my education, abilities and research potential can be effectively utilized along with learning and globally growth opportunities. I can work at my full potential. I am continuously developing my skills, taking on new challenges and pursue opportunities for advancements.

EDUCATION

Masters in Science (Botany)

Allama Iqbal Open University, Islamabad

(2017 - 2020)

1st Division (16 years Education)

<https://www.aiou.edu.pk>

Final Project and Thesis:

Green synthesis of Nano-Particles of Iron (Fe), Molybdenum (Mo) their composite, characterization and application on Tomato (*Solanum lycopersicum*) plants for their growth.

Semester Projects:

Autoclaving, Media Preparation, Culturing of Bacteria, Streaking and spreading method, Preparation of soil sample, DNA extraction, PCR, Tissue culture, Spectrophotometry, Quadrant Sampling, Chromatography, Slide preparations of some plant tissues, Preservation and identification of plants through Herbarium.

Bachelor in Education (Specialization in Bio,Chem)

Allama Iqbal Open University, Islamabad (2016 - 2017)

1st Division (1 Year)

<http://www.aiou.edu.pk>

Projects:

Lesson planning, Time management, Presentational skills, Assessments Design, Evaluations, Av Aids Usage/Preparation.

Bachelor of Science (Botany, Zoology, Chemistry)**Punjab University, Lahore****(2013 - 2015)****2nd Division (14 Years Education)****(www.pu.edu.pk)****Lab Projects:**

Qualitative Salt Analysis, Acid Base Titrations, Redox Titrations, Media Preparation, Bio Chemical Analysis of different food items, Staining Techniques, Preparation of slides (Animals and Plants Tissues).

PUBLICATIONS

Green Synthesis and characterization of nano particles of Iron (Fe), Molybdenum (Mo) and their application on Tomato plants (*Solanum lycopersicum*) for their growth.(Open Chemistry-D-23-0273R1) Link: <https://www.degruyter.com/document/doi/10.1515/chem-2023-0196/html>

DOMAINS OF INTEREST

Nano-biotechnology, Pathology, Crop Genomics, Molecular Biology, Tissue Culture, Stem Cell & Regenerative Medicine, Targeted drug Delivery, Genetic Engineering, Nano-medicine, Bio Feed, Bio Fuel.

RELEVANT RESEARCH SKILLS

- Staining techniques
- DNA Isolation
- Polymerase Chain Reaction (PCR)
- Gel Electrophoresis

COMPUTATIONAL SKILLS

- MS Word
- Power point
- Excel

SUBJECTS STUDIED

Introductory Biochemistry, Diversity of Vascular Plants, Plant Anatomy, Phycology and Bryology, Bacteriology and Virology, Molecular Biology, Plant Ecology, Plant Physiology, Plant Biochemistry, Mycology and Plant Pathology, Plant Systematic, Genetics, Ethano botany, Environmental Biology, Scientific Research, Introductory Biostatistics.

ADDITIONAL WORK EXPERIENCE

The Educators School, SKANS, Allied Schools, Rawalpindi, Pakistan

Senior Teacher (Biology, Chemistry)

March 2015- June 2024

Responsibilities include:

- Lab Maintenance/ Experimental approach
- Organizing academic and Co-curricular activities
- Lesson planning, Subject coordination meetings
- Assessment marking

Internship

Dr. A.Q Khan College of Science and Technology, Rawalpindi, Pakistan

- Visitor Lecturer (Biology, Chemistry)

Sep 2018-Feb 2019

I used to manage all aspects of entire academic activities including quizzes, exams, lab experiments etc.

ACHIEVEMENTS & SOCIAL ACTIVITIES

- Received **Research publication grant** from Allama Iqbal Open University, Islamabad.
- Received **Merit based Laptop award** from Prime Minister's laptop award scheme.
- Participated in the Poster presentation on "**Health and Environmental Concerns: Pakistan Chapter**". Organized by Department of Biology and Environmental Science, Allama Iqbal University Islamabad.
- Participated in an event (**TECTICS'18**, Category: Stubborn Engineer) at Iqra University Islamabad as a Judge.

VOLNTEER WORK

- Social Activities
- Flood Drive Leader 2022
- Management in Flood Affected Areas 2022

LANGUAGES

- Urdu (Native)
- Pashto (Mother Tongue)
- English (Official):
Listening **B2** Reading **C1** Writing **C1**
Spoken Production **C1** Spoken Interaction **B1**

COMMUNICATION AND INTERPERSONAL SKILLS

- Flexible Approach
- Self Motivated
- Strategic Communication
- Team Player

HOBBIES AND INTERESTS

- Novel Reading
- Cooking/Baking
- Hannah (Mehndi) Artist

REFEREES

Will be provided on demand.