

Munnaza Jabeen
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Research Interests

Plant Systematics, Biofuel Production, Plant Taxonomy and Biodiversity, Plant Entomology, Biosynthesis of Nanoparticles, Plant Physiology, Molecular Plant Biology, Ethnobotany

Professional Experience

- **Entomologist Assistant in the Department of Plant Protection, Karachi, Pakistan (2021-Present)**
Currently working as an assistant entomologist on various projects aimed at protecting crops from pests and diseases. Responsibilities include conducting field surveys, identifying pest species, and assisting in the development of integrated pest management strategies. The role involves collaborating with farmers and researchers to implement effective pest control measures, contributing to the sustainability of agricultural practices in the region.
- **Research Assistant at GBIF-BIFA USA (2018 - 2019)**
Worked as a researcher on the project titled "**Geo-referencing and Mobilization of Plant Occurrence Data from Pakistan,**" funded by GBIF-BIFA USA. The project aimed to enhance the accessibility and accuracy of plant biodiversity data in Pakistan. Responsibilities included collecting and analyzing plant occurrence data, geo-referencing locations, managing data sets, and improving the data availability for plant research and conservation.
- **Collaboration as a Research Intern with Ph.D. Scholar at Quaid-i-Azam University, Islamabad Pakistan (2017-2018)**
Worked as a researcher in the Agriculture Linkage Project funded by the Pakistan Agricultural Research Council (PARC), which was entitled "**Plant Growth Promotion and Disease through Multi-stress Tolerant Bacteria.**"

Certificates and Scholarships

- Certificate of acknowledgment in recognition of valuable contribution as a keynote speaker to the International Innovation Summit for Microelectronics and Artificial Intelligence 2021.
- One year of research experience in the Agriculture Linkage Project funded by the International Foundation for Sciences.
- Participant of International Soil Day 2018, Quaid-I-Azam University Islamabad.
- Merit fellowship holder in M.Sc. and M.Phil. in all semesters from Quaid-I-Azam University Islamabad, Pakistan.
- Second Position in DNA Model Competition 2016, Quaid-I-Azam University Islamabad, Pakistan.
- Position holder in Pakistan Day Quiz Competition 2014, Govt. College Haripur.

Academic Record

Institution	Field of Study	Degree	Div./CGPA	Year
Quaid-i-Azam University Pakistan	M.Phil. Thesis title: "Biodiesel Synthesis and Characterization using <i>Ailanthus altissima</i> (MILL.) Swingle Seed Oil".	M.Phil.	4.2/5.0	2017-19
Quaid-i-Azam University Pakistan	Plant Sciences	M.Sc.	4/5.0	2015-17
University of Haripur Pakistan	Botany, Zoology, Chemistry	B.Sc.	1 st Div.	2012-14

Conferences/symposiums/ Seminars

- 3 Days International Conference on “Emerging Issues of Environmental Degradation, Natural Hazards, and Water Security” Pakistan Academy of Science, Chinese Academy of Science
- 2 Days Training workshop on “Bioinformatics for Life Sciences and Drug Designing” Allama Iqbal Open University, Islamabad
- 2nd China-Pakistan Joint Wheat Molecular Breeding Conference, 6 March 2024, Quaid-i-Azam University, Islamabad
- Symposium on "Genomic Selection for Productivity Enhancement of Crops (Rice, Sugarcane, Wheat and Cotton)" National Agricultural Research Centre Pakistan
- Seminar on Genomic application of PCR, qPCR and RT-PCR
- Conference on "Building Innovative Pakistan Through Science, Technology and Innovation Policy"
- Organizer, International Student Convention 2018 Islamabad, Pakistan
- Organizer, participant, International Conference on Emerging Trends in Plant Proteomics 2017, Quaid-i-Azam University Islamabad, Pakistan

Publications

- **Jabeen, M.**, Munir, M., Abbas, M. M., Ahmad, M., Waseem, A., Saeed, M., ... & Chaudhry, B. (2022). Sustainable production of biodiesel from novel and non-edible *ailanthus altissima* (Mill.) seed oil from green and recyclable potassium hydroxide activated ailanthus cake and cadmium sulfide catalyst. *Sustainability*, 14(17), 10962.
- Majeed, S., Zafar, M., Ahmad, M., Kilic, O., Sultana, S., Raza, J., ... & **Jabeen, M.** (2020). Pollen morphological investigations of family Cactaceae and its taxonomic implication by light microscopy and scanning electron microscopy. *Microscopy research and technique*, 83(7), 767-777.
- Mir, S., Ahmad, M., Khan, M. A., Zafar, M., Jahan, S., Sultana, S., **Jabeen, M.** & Majeed, S. (2019). Palyno-morphological investigations of subtropical endangered flora of Capparidaceae through light and scanning electron microscopy. *Microscopy Research and Technique*, 82(9), 1401-1409.

- **Munazza Jabeen** (3rd author) in “Mechanistic Elucidation of Morpho-Biochemical and Molecular Alterations in *Cicer arietinum* L. Under Salt Stress by Inoculation with a Consortium of *Pseudomonas* and *Bacillus* sp.” (submitted: **Plant Growth Regulation: Manuscript ID: GROW-D-24-00577**)

Skills and Expertise

- Skills in Writing Scientific Reports and Papers, Synopsis, and Scientific Papers
- Trained in Palyno-morphological and anatomical investigations
- Data Analysis of Experiments through Excel Stat, Sigma, Origin, PCA Analysis, Graph Pad Prism
- Skilled in light microscopy and scanning electron microscopy, HPLC, GCMS, FT-IR techniques
- Trained in the biosynthesis of Nanoparticles
- Trained in Molecular biology lab techniques, Gel Electrophoresis, Microbial Isolation and Screening
- Field work for plant collection and Herbarium, Botanical Garden maintenance
- Trained in histological material preparation (anatomy, palynology, etc.)
- Experience with GIS (Geographic Information Systems) for spatial analysis is a plus.
- Skilled in Microsoft Office programs

References

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