





Zaryab Shafi

Village and Post Chitara-Mahmoodpur , Martinganj, Azamgarh ,
Uttar Pradesh - 223224

7355677932, 8738816535 | shaikhzaryabshafi@gmail.com

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user=pwU8se8AAAAAJ&hl=en](https://scholar.google.com/citations?user=pwU8se8AAAAAJ&hl=en)

 Zaryab Shafi  Sheikh Zaryab Shafi  @Zaryabshafi

Objective

Experienced microbiologist seeking knowledge by performing accurate research while complying with laboratory safety protocols and standard.

Experience

- **ICAR - National Bureau of Agriculturally Important Microorganisms, Kushmaur, Maunath Bhanjan, Uttar Pradesh, India**
Young Professional -II
May 2022- June 2023
Worked on:
 - Bacterial endophytes with reference to biotic and abiotic stress management
 - Consortium of microorganisms and bioformulation
 - Biological Control
 - Plant-Microbe Interaction Rhizosphere Biology
- **St Xavier's Senior Secondary School Bahrapur, Ambedkar Nagar**
P.G.T (Biology)
01/04/2021 to 30/04/2022
 - Preparing and delivering engaging biology lessons to students from different backgrounds, who all have different interests and abilities.
 - Monitoring student performance, and adjusting teaching strategies and techniques for improved content delivery.
 - Establishing classroom, laboratory, and field trip rules and ensuring all students understand and accept them.
 - Setting up exams, assessments, and experiments in accordance with curriculum requirements and standards of the state and district.
 - Communicating any student issues to parents, counselors, and other relevant staff members.
 - Attending school events and staff meetings as required.
 - Representing the school at conferences, workshops, and other networking events.
 - Coming up with suggestions to improve the Biology Department and general school operations.
 - Building rapport with students so that they feel comfortable and safe discussing sensitive topics in class.
 - Encouraging students to participate in science fairs, competitions, and expos, and preparing them for these events.
- **Laboratory of Molecular Microbiology, Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh, India** -
M.Sc Dissertation
January 2020 - June 2020
Dissertation title "Role and Application of Curcumin as an Antimicrobial Agent"
The general objectives of this research is to observe the effect of Curcumin (*Curcuma longa*) on *E.coli* and *Mycobacterium smegmatis*
 - (1) Extraction of curcumin from turmeric by Microwave assisted method.
 - (2) Determination of MIC (Minimal Inhibitory Concentration).
 - (3) Effects of Curcumin on growth of *E.coli* and *Mycobacterium smegmatis*.
(physical Appearance on body of the bacterium)
- **Dr. Ram Manohar Lohia Institute of Medical and Research, Lucknow, Uttar Pradesh, India** -
Intern
June 2019- July 2019
Worked in various laboratories such as Bacteriology, Virology, Parasitology, mycology, Media Preparation etc.

Education

- **Babasaheb Bhimrao Ambedkar University (a Central University) Lucknow, Uttar Pradesh, India** 2020
Master of Science (Environmental Microbiology)
66%
- **Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh, India** 2018
Bachelor of Science (Zoology and Botany)
68%
- **Kendriya Vidyalaya Azamgarh, Uttar Pradesh, India** 2015
Intermediate
71%
- **Kendriya Vidyalaya Azamgarh, Uttar Pradesh, India** 2013
High School
7.4 CGPA

Computer Proficiency

- Certificate in “**Course on Computer Concepts**”
- One Year Diploma in “**Computer Applications, Business Accounting and Multilingual D.T.P.**”
- **Computer Skills-** M.S. Office, M.S. Excel, M.S. PowerPoint

Skills

- Experience in screening of Microbes
- Microbial Technique - Microscopy, Growth curve, Coliform test, Staining techniques, microbial analysis of samples, sterilization methods, Cultivation of pure cultures and Antibiotic sensitivity assay.
- Biochemical techniques - Estimation of Protein, Qualitative test for Carbohydrates, Lipid and Amino Acids , Preparation of buffers and Enzyme Estimation.
- Biophysical Techniques - Centrifugation and Titrations
- Immunology techniques- ELISA, Immuno- electrophoresis, Southern blotting
- Instrumentation Handling - UV- VIS spectrophotometer, Centrifuge, Gel Electrophoresis, Beat beater, PCR, Hot Air Oven, Incubator etc.

Publications

- Shafi, Z., Ilyas, T., Shahid, M., Vishwakarma, S.K., Malviya, D., Yadav, B., Sahu, P.K., Singh, U.B., Rai, J.P., Singh, H.B. and Singh, H.V., 2023. Microbial Management of Fusarium Wilt in Banana: A Comprehensive Overview. Detection, Diagnosis and Management of Soil-borne Phytopathogens, pp.413-435.
- Vishwakarma, S.K., Ilyas, T., Malviya, D., Shafi, Z., Shahid, M., Yadav, B., Singh, U.B., Rai, J.P., Singh, H.B. and Singh, H.V., 2022. Arbuscular Mycorrhizal Fungi (AMF) as Potential Biocontrol Agents. In Rhizosphere Microbes: Biotic Stress Management (pp. 197-222). Singapore: Springer Nature Singapore.
- Malviya D, Ilyas T, Chaurasia R, Singh UB, Shahid M, Vishwakarma SK, Shafi Z, Yadav B, Sharma SK, Singh HV. Engineering the Plant Microbiome for Biotic Stress Tolerance: Biotechnological Advances. In Rhizosphere Microbes: Biotic Stress Management 2022 Oct 8 (pp. 133-151). Singapore: Springer Nature Singapore.
- Singh A, Shafi Z, Mahto SK, Yadav S, Sankhwar R (2020) Role and Application of Curcumin as an Alternative Therapeutic Agent. Adv Microb Res 4: 014. (DOI:10.24966/AMR-694X/100014)
- Shahid, M., Singh, U.B., Ilyas, T., Malviya, D., Vishwakarma, S.K., Shafi, Z., Yadav, B. and Singh, H.V., 2022. Bacterial Inoculants for Control of Fungal Diseases in Solanum lycopersicum L.(Tomatoes): A Comprehensive Overview. Rhizosphere Microbes: Biotic Stress Management, pp.311-339.
- Ilyas, T., Malviya, D., Shafi, Z., Shahid, M., Vishwakarma, S.K., Yadav, B., Singh, U.B., Rai, J.P., Singh, H.B. and Singh, H.V., 2023. Biochar-Mediated Suppression of Soil-Borne Pathogens in Agronomically Important Crops: An Outlook. In Detection, Diagnosis and Management of Soil-borne Phytopathogens (pp. 383-400). Singapore: Springer Nature Singapore.

- Yadav, B., Singh, U.B., Malviya, D., Vishwakarma, S.K., Ilyas, T., Shafi, Z., Shahid, M. and Singh, H.V., 2023. Nematophagous Fungi: Biology, Ecology and Potential Application. In Detection, Diagnosis and Management of Soil-borne Phytopathogens (pp. 309-328). Singapore: Springer Nature Singapore.
- Singh Harsh V., Singh Udai B., Kumar A., Singh Jyoti P. Malviya D. Mohd. S. Vishwakarma Shailesh K., Ilyas T. and Shafi Z (2023) Distinct Microbe-Based Approaches for Plant Stress Amelioration- A Training Manual. Published by Director, ICAR-National Bureau of Agriculturally Important Microorganisms, Kushmaur, Maunath Bhanjan, Uttar Pradesh (India). pp. 1-180.
- Shafi Z, & Nafees F (2020) A Review on Withania Somnifera (Ashwagandha): A Salubrious herb and its dynamic in pharmacology. IRJETS , Volume 2, Issue 8
- Shafi Z, Azmi A, & Nafees F (2020). A Review on Therapeutic Activities of Some Indian Traditional Medicinal Plant: A Nature's Gift with a Promising Future Prospective. IJIRSET , Volume 9 , issue 8. (DOI:10.15680/IJIRSET.2020.0908001)
- Shafi Z (2020). An Overview of Corona Virus Disease - Review. in Science Letter (DOI: 10.46890/SL.2020.v01i05.002)
- Abstract Published on "Curcumin : An age old anti-inflammatory and anti- neoplastic agent" in International Conference on Environmental Sustainability: innovation, Translation Dimensions way forward at Babasaheb Bhimrao Ambedkar University, Lucknow.
- Research Paper on title "Colonization potential of endophytes from halophytic plants growing in the "Runn of Kutch" salt marshes and their contribution to mitigating salt stress in tomato cultivation" is under revision in Frontiers in Microbiology.
- Research Paper on the title "The exogenously applied 24-epibrassinolide (24-EBL) increases the heavy metal resilience in Zea mays (L.) by regulating the growth, and physiological mechanisms under Cd and Pb stress" is under revision in Applied Biochemistry and Biotechnology
- Review paper on the title " Plant-microbe interaction under stressed agriculture: A tool for climate resilient agriculture" under review in Journal of Basic Microbiology"

Achievements & Awards

- Governor Award in Scout and Guide
- Cadet in National Service Scheme (NSS)

Work Shop/ Conferences

- Participated in eight days national training on "Modern techniques for characterization of bacterial endophytes and its application in agriculture" held at ICAR-NBAIM, Mau in 2023.
- Training assist in organization of eight days national training on "Distinct Microbe based approaches for Plant stress amelioration" held at ICAR-NBAIM, Mau in 2023.
- Participated in two days workshop on "Basics of Flow Cytometry and its Applications in Biomedical Sciences" at Department of Biotechnology , in 2020 Babasaheb Bhimrao Ambedkar University, Lucknow.
- Participated in Workshop on "Reducing our water Footprints" in 2020 at Babasaheb Bhimrao Ambedkar University, Lucknow
- Participated in Two days workshop on "Self Management of Excessive Tension Stress" at Babasaheb Bhimrao Ambedkar University ,Lucknow.
- Participated in International Conference on "Global of Green house gases at the sources by physical and chemical technology" in 2019 at Babasaheb Bhimrao Ambedkar University Lucknow.
- Participated in International Conference on "Environmental Sustainability: Innovations, Translation Dimensions Way Forward" at Babasaheb Bhimrao Ambedkar University, Lucknow.
- Participated in Seminar on Environmental Sustainability: Present Scenario and Future Aspects at Babasaheb Bhimrao Ambedkar University Lucknow.
- Participated in Integrated workshop on "Publication Ethics and Patenting" at Babasaheb Bhimrao Ambedkar University, Lucknow
- Participated in workshop on " Genome editing in Agriculture: Science, Potential, and Policies at CSIR- NBRI, Lucknow.

Activities

- Participated in Rangoli competition on the Occasion of 'World Immunology Day'
- Participated in IFS Forensic Science Quiz
- Participated in Quiz on the Occasion of "World Environment Day"
- Participated in Online Course on "Immunology"
- Participated in Online Course on "Microbial Application in Daily Life"
- Participated in "25th District level Rovers/ Rangers Rally and Winners in Youth forum and Kim's game.
- Participated in "26th District Level Rovers / Rangers Rally and Winner in Speech competition"
- Participated in "27th District Level Rovers / Rangers Rally and winners in Kim's Game and Runner up in Night Scouting"
- Participated in "17th Uttar Pradesh State Level Scout And Guide Rally"

Personal Details

- Date of Birth : 18/09/1998
- Marital Status : Single
- Nationality : Indian
- Religion : Islam
- Passport : U9585778
- Gender : Male
- Aadhaar No. : 3908 9103 2219

Personal Attitude

- Learn and implement
- Quick adaptability to any environment
- Energetic and hardworking
- Flexible and Responsible
- Optimistic and sincere
- Convincing and cooperative dealing

Languages

- English
- Hindi
- Urdu

Reference

- **Dr. Pramod Kumar Sahu**
Senior Scientist (Agri. Microbiology)
Plant Microbe Interaction and Rhizosphere Biology Lab
ICAR-National Bureau of Agriculturally Important Microorganisms, kushmaur, Maunath Bhanjan
Email.- pramod.sahu@icar.gov.in
Mobile no.- +91 63860 45054
- **Prof. Iqbal Ahmad**
Professor and Chairman
Department of Agriculture Microbiology
Aligarh Muslim University, Aligarh
Email- iazilli786@gmail.com
Mobile no.- 09897902936

Declaration

- I hereby inform that the above mentioned information furnished by me is true to the best of my knowledge and belief . I bear the responsibility for the correctness of the above mentioned particulars.

Date:
Place: Azamgarh

(Zaryab Shafi)