

ZAKIR HUSAIN DELHI COLLEGE (University of Delhi)

Faculty Details

Title	First Name	Last Name
Dr.	Deepika	Sharma
Designation	Assistant Professor	
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Web Page	https://orcid.org/0000-0003-3730-9493 (ORCiD profile)		
	https://scholar.google.com/citations?user=rWq4660AAAAJ&hl=en (Google scholar profile)		
	https://www.researchgate.net/profile/Deepika-Sharma-40 (ResearchGate profile)		

Educational Qualifications

Degree	Institution	Year
Ph.D.	University of Delhi	2014
M.Phil. (Botany)	University of Delhi	2007
M.Sc. (Botany)	University of Delhi	2005
B.Sc. (H) Botany	University of Delhi	2003

Career Profile

Assistant Professor: Department of Botany, Zakir Husain Delhi College (January 2024 – till date)

Assistant Professor (Ad-hoc): Department of Botany, Zakir Husain Delhi College (January – May

2015; January 2016 – December 2023)

Assistant Professor (Guest): Department of Botany, Zakir Husain Delhi College (July -

November 2014; July – November 2015)

Administrative Assignments

- Member, Viksit Bharat Committee, Zakir Husain Delhi College, university of Delhi
- Member, Sports Advisory Board, Zakir Husain Delhi College, university of Delhi
- Vice-president, Botanical society 'Nargis' of Department of Botany, Zakir Husain Delhi College,
 University of Delhi (2021 22)
- Member, Counselling Team for Undergraduate admissions at Zakir Husain Delhi College (2017 – 2022)
- Member, NAAC sub-committee (Criteria 7: Innovations and Best Practices) for preparation of SSR Report (2016)
- Member, Garden and Greening Committee of Zakir Husain Delhi College (2015 2020)
- Coordinator, RIO+22 United Nations Sustainable Energy for All India Program at Zakir Husain
 Delhi College (2015)

Areas of Interest / Specialization

Plant-microbe interactions, Microbial Ecology and Conservation Biology

Subjects Taught

- Bryophytes, Pteridophytes and Gymnosperms
- Plant Systematics
- Ecology and Evolution
- Biofertilizers
- Economic Botany and Biotechnology
- Reproductive Biology of Angiosperms
- Plant Diversity and Systematics
- Economic Botany
- Intellectual Property Rights
- Environmental Studies

Publications Profile

(Cumulative impact factor – 96.3, Citations – 650, h-index – 9, i10index – 7)

Refereed Journal Articles:

- Kothamasi D, Vermeylen S and Deepika S (2023) Are ecological processes that select beneficial traits in agricultural microbes nature's intellectual property rights? Nature Biotechnology 41:1381–1384. (Impact Factor – 46.9)
- Goswami V, Deepika S, Diwakar S and Kothamasi D (2023) Arbuscular mycorrhizas amplify the
 risk of heavy metal transfer to human food chain from fly ash ameliorated agricultural soils.

 Environmental Pollution 329:121733. (Impact factor 8.9)
- Goswami V, Deepika S, Chandra R, Babu CR and Kothamasi D (2023) Arbuscular mycorrhizas accelerate the degradation of colour containing organic pollutants present in distillery spent wash leachates. *Journal of Hazardous Materials* 452:131291. (Impact Factor 13.6)
- Deepika S and Kothamasi D (2021) Plant hosts may influence arbuscular mycorrhizal fungal community composition in mangrove estuaries. *Mycorrhiza* 31:699–711. (Impact Factor 3.9)
- Vashistha G, Deepika S, Dhakate PM, Khudsar FA and Kothamasi D (2020) The effectiveness
 of microsatellite DNA as a genetic tool in crocodilian conservation. *Conservation Genetics*Resources 12:733–744. (Impact Factor 1.1)
- Deepika S, Mittal A and Kothamasi D (2019) HCN-producing Pseudomonas protegens CHA0 affects intraradical viability of Rhizophagus irregularis in Sorghum vulgare roots. Journal of Basic Microbiology 59:1229–1237. (Impact Factor 3.1)
- Deepika S and Kothamasi D (2015) Soil moisture a regulator of arbuscular mycorrhizal fungal community assembly and symbiotic phosphorus uptake. *Mycorrhiza* 25:67–75. (Impact Factor 3.9)
- Devi KK, Deepika S, Bhaduri A and Kothamasi D (2013) Polymorphism in hcnAB gene in Pseudomonas species reveals ecologically distinct hydrogen cyanide producing populations.
 Geomicrobiology Journal 30:131–139. (Impact Factor 2.3)
- Deepika S, Kapoor R and Bhatnagar AK (2009) Differential responses of *Curculigo orchioides* Gaertn. plantlets to AM inocula varying in number and type of fungal species. *European Journal of Soil Biology* 45:328–333. (Impact Factor 4.2)
- Deepika S, Kapoor R and Bhatnagar AK (2008) Arbuscular mycorrhizal (AM) technology for the conservation of *Curculigo orchioides* Gaertn. plantlets an endangered medicinal herb. *World Journal of Microbiology and Biotechnology* 24: 395–400. (Impact Factor 4.1)

Kapoor R, Deepika S and Bhatnagar AK (2008) Arbuscular mycorrhizae in micropropagated systems and their potential applications. Scientia Horticulturae 116:227–239. (Impact Factor – 4.3)

Book Chapter:

 Deepika S, Goswami V and Kothamasi D (2023) Arbuscular mycorrhizal fungi (AMF) and climate smart agriculture – prospects and challenges. In: Ansari W, Singh AK and Tuteja N (Eds) Global Climate Change and Plant Stress Management. John Wiley & Sons Ltd., Chichester, UK, pp 175– 200

Conference poster:

 Kothamasi D, Goswami V and Deepika S (2024) Arbuscular mycorrhizas as remediators of pollutants introduced to agricultural soils through industrial wastes. 12th International Conference on Mycorrhiza (ICOM-12), August 4-9, 2024, Manchester, UK

Other Publications:

 Contributed to preparation of electronic study material (eBooks) of the National Council of Education Research and Training (NCERT), Government of India in Biology for secondary school students (2007)

Conference Organization/ Presentations (in the last five years)

- Organizing Committee Member, Training Program on "Food Safety", October 20, 2023
 organized by the Department of Botany, Zakir Husain Delhi College
- Organizing Committee Member, International Conference cum Workshop on "Proteomics,
 Transcriptomics and Molecular Drug Design: An Integrated Omics Approach", May 25 27,
 2022 organized by the Department of Botany, Zakir Husain Delhi College
- Organizing Committee Member, "Digital Upskilling Workshop for lab staff", February 15 –
 17, 2022 organized by the Department of Botany, Zakir Husain Delhi College
- Organizing Committee Member, Refresher Course on "Lab Techniques for lab staff",
 February 7 11, 2022 organized by the Department of Botany, Zakir Husain Delhi College
- Organizing Committee Member, National Workshop on "Statistical Analysis of Biological Data", January 17 – February 21, 2022 organized by the Department of Botany, Zakir Husain Delhi College
- Organizing Committee Member, National Workshop on "Bioinformatics Resources, Tools and its Applications (for undergraduate students)", July 19 – 27, 2021 organized by the Department of Botany, Zakir Husain Delhi College

- Coordinator, Webinar on "Intellectual Property Rights: An Overview" on October 7, 2020 organized by the Department of Botany, Zakir Husain Delhi College
- Organizing Committee Member, Workshop on "Plant Tissue Culture", March 8 9, 2019
 organized by the Department of Botany, Zakir Husain Delhi
- Organizing Committee Member, Workshop on "Analytical Instrumentation Techniques",
 October 6 7, 2018 organized by the Department of Botany, Zakir Husain Delhi College
- Organizing Committee Member, National Conference on "Genetics Environment Interface:
 Science and Spirituality", January 25, 2018 organized in memory of Late Dr. Virendra Kumar by the Department of Botany, Zakir Husain Delhi College
- Organizing Committee Member, National Conference on "Challenges and Strategies to Improve Crop Productivity in Changing Environment: An Integrated Approach", January 12, 2018 organized by the Department of Botany, Zakir Husain Delhi College

Awards and Distinctions

- University of Delhi, Institution of Eminence (IoE) Research award for paper published in a
 Q1 Journal (2023)
- Senior Research Fellowship (SRF), Council of Scientific and Industrial Research (CSIR; March,
 2012 April, 2014)
- CSIR NET (National Eligibility Test) for Lectureship (2008)
- **First position** in M.Phil. course in Botany at the Department of Botany, University of Delhi (2006)
- **Second position** in B.Sc. honours course in Botany at Zakir Husain College, University of Delhi (2003)
- Awarded Certificate of merit by Zakir Husain College, University of Delhi (2003)