



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Titl e	Dr.	First Name	Sushma	Last Name	Sharma	Photograph
Designation	Assistant Professor					
Address	5A Panchsheel Colony, Ghaziabad (U.P.) 201001					
Phone No. Office	-					
Residence Mobile	-					
Email	sush.scop28@gmail.com/ssharma@db.du.a c.in					
Web-Page	-					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	University of Delhi				2016	
M.Phil.	University of Delhi				2011	
PG	University of Delhi				2009	
UG	University of Delhi				2007	
Any other qualification	-					
Career Profile						
<p>Guest Lecturer in Acharya Narendra Dev College, University of Delhi from October 2019 to November 2019.</p> <p>Guest Lecturer in Swami Shraddhanand College, University of Delhi from August 2017 – September 2019.</p> <p>Guest Lecturer in Deshbandhu College, University of Delhi from August 2018 – September 2019.</p> <p>Ad-hoc assistant professor in Department of Zoology in Institute of Home Economics, University of Delhi from January, 2017 – May 2017.</p> <p>Guest Lecturer in Department of Zoology in Maitreyi College, University of Delhi from January, 2016 – Nov 2016.</p> <p>Guest Lecturer in Department of Zoology in Sri Venkateswara College, University of Delhi from August, 2015 - November, 2015.</p>						

Guest Lecturer in Department of Zoology in Daulat Ram College, University of Delhi from March, 2015 - April, 2015.

Administrative Assignments

NA

Areas of Interest/Specialization

Real Time PCR, Denaturing gradient gel electrophoresis, Terminal fragment length polymorphism, Polymerase chain reaction, Cloning, DNA, RNA isolation from soil, Bacterial identification and characterization, Genomic & plasmid DNA isolation from Prokaryotes, Gene Cloning and sequencing in prokaryotic system, PCR, Gel Electrophoresis, Restriction digestion of plasmid DNA, Microbiology techniques, Gas Chromatography, HPLC, Thin Layer Chromatography (TLC) SDS-PAGE, ABI Sequence scanner, NCBI, Vec screen, Clustal W, Clustal X, Bioedit, Phylip 3.69, Tree view, Primer 3, Eurofins MWG Operon primer design, Sequence analyzer software for assemble the nucleotide sequence, Clone Manager for sequence analysis Sigmaplot, Sigmastats, Prism, Past3 and MVSP.

Subjects Taught

Non-chordata and Chordata	Reproductive Biology		
Animal Biotechnology	Aquarium Fish culture		
Animal Behaviour	Insect toxicology		
Biochemistry	Insect Vector and Diseases		
Developmental Biology			

Research Guidance

List against each head (If applicable):

1. *Supervision of awarded Doctoral Thesis*
2. *Supervision of Doctoral Thesis, under progress*
3. *Supervision of awarded M.Phil. dissertations*
4. *Supervision of M.Phil. dissertations, under progress*

Publications Profile

1. *Books/Monographs (Authored/Edited)*

Behaviour and response in mammals. Book chapter, Khosla Publication, Page no. 330-356.

2. *Research papers published in Refereed/Peer Reviewed Journals*

Sushma Sharma and Dileep K. Singh (2021) Impact of different Fertilizers on

Community of Diazotrophic Wheat Rhizosphere in The Semi-Arid Region, Jaipur, India. Indian Journal of Ecology 48(1): 30-35

Rahul Jamwal, Amit, Shivani, Sushma Sharma and Dileep K. Singh (2021) Recent trends in the use of FTIR spectroscopy integrated with chemometrics for the detection of edible oil adulteration. Vibrational Spectroscopy 113

Sushma Sharma and Dileep K Singh (2020) Influence of ammonium and moisture on survival and *nifH* transcription in the diazotroph *Pseudomonas mendocina* S10. Notulae Scientia Biologicae.

Sushma Sharma, Neha Mishra and Dileep K Singh Restoration of Wetland ecosystem: A challenge (2018) Proceedings of Fourth National Symposium on Environment: Green technology for Environmental Sustainability.

Sushma Sharma and Dileep K Singh. Temporal variations in diazotroph communities and *nifH* transcripts level across the agricultural and fallow land (2016). Indian Journal of Microbiology.

Sushma Sharma and Dileep K Singh. Microbial community composition in contaminated soil of Yamuna River. (2017). International Journal of Microbiology Research.

Sushma Sharma, Preeti Khandelwal, Khushboo Singh, Neha Mishra, Rahul Jamwal and Dileep K Singh (2017). Molecular investigation of biological nitrogen fixation: a review International Journal of Scientific Research

3. *Workshop Attended/Participated*

Participated as an organizing member in the international conference on natural products and human health (ICNPHH 2020) University of Delhi, Delhi November 4-6, 2022.

Co-convenor of Cancer Biology: Advances and Challenges 2021 organized from 11-13

Participated in Science Fellowship Examination Organised by Vidyarthi Vigyan Manthan held at Deshbandhu College in January 2020.

Participated in DBT sponsored workshop on “The Foldscope” organized by Kalindi College, University of Delhi held at University of Delhi, Delhi on April 10, 2019.

Conference Organization/ Presentations

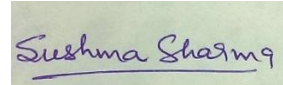
List against each head (If applicable)

1. *Organization of a Conference: None*

2. *Participation as Paper/Poster Presenter*

Molecular characterization and *nifH* gene expression of nitrogen-fixing bacteria in the Rajasthan soil. (2013). Association of Microbiologists of India, Rohtak.

<p>Diversity of nitrogen fixing bacteria in four growth stages of wheat plant. (2012). Association of Microbiologist of India, Odissa.</p> <p>Exploring the diversity of bacteria in the polluted Yamuna river soil. (2011). Association of Microbiologist of India, Chandigarh.</p> <p>Study of microbial diversity of the Yamuna Soil in Delhi, India. (2011) International Conference "Recent trends in developing bioremediation strategies for HCH and other chlorinated contaminants." Delhi.</p>
<p>Research Projects (Major Grants/Research Collaboration)</p>
<p><i>None</i></p>
<p>Awards and Distinctions</p>
<p>ICAR Fellowship IAEA Fellowship</p>
<p>Association With Professional Bodies</p>
<ul style="list-style-type: none"> • <i>Editing</i> • <i>Reviewing</i> • <i>Advisory</i> • <i>Committees and Boards</i> • <i>Memberships</i> • <i>Office Bearer</i>
<p>Other Activities</p>
<p>Member of Department NAAC SSR team</p> <p>Co-convenor of Department Website</p> <p>Member of College Research Innovation Website team</p> <p>Participated as an organizing member in the International Conference on "Human Rights-National and International Issues and Challenges", organized by Shaikshik Foundation in association with Deshbandhu College & Dr. Ambedkar International Centre, New Delhi held at Dr. Ambedkar International Centre, New Delhi from February 22-23, 2020.</p> <p>Participated as an organizing member in the International conference on natural products and human health (ICNPHH 2020) University of Delhi, Delhi. February 27-29, 2020.</p> <p>Participated in the "Fourth National Symposium on Environment: Green Technology for Environmental Sustainability" held at Deshbandhu College, University of Delhi, Delhi on September 25, 2018.</p>

A rectangular box containing a handwritten signature in blue ink that reads "Sushma Sharma".

Signature of Faculty
Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.