




## Faculty Details proforma for DU College Web-site



Title	Dr.	First Name	Manoj Kumar	Last Name	Singh	Photograph
Designation	Assistant Professor					
Address	Department of Botany Acharya Narendra Dev College University of Delhi Govindpuri, Kalkaji New Delhi-110019					
Phone No Office	011-26294540					
Residence						
Mobile	+91 9711474428					
Email/ Web-Page	manojkumarsingh@andc.du.ac.in, manecbhu@gmail.com					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Jawaharlal Nehru University				2015	
PG	Banaras Hindu University(M.Sc. Botany)				2009	
UG	Allahabad University(B.Sc. BZC)				2003	
Career Profile						
<b>Organisation/Institution</b>		<b>Designation</b>		<b>Duration</b>		<b>Role</b>
Acharya Narendra Dev College University of Delhi		Assistant Professor		August 2015-Till Date		Teaching, Research, other academic and official works
Administrative Assignments						
Areas of Interest / Specialization						
Industrial and Environmental Microbiology Molecular Biology Enzymology Proteomics						
Subjects Taught						
Molecular Biology Cell Biology Analytical Techniques in Plant Sciences Industrial and Environmental Microbiology Plant Biotechnology Plant Physiology						

## Research Guidance

Supervised 5 undergraduate students in 03 different Summer Research Projects under ELITE programme.

## Publications Profile

### Research Articles

- **Singh, M. K.**, Kumar, M., & Thakur, I. S. (2017). Proteomic characterization and schizophyllan production by *Schizophyllum commune* ISTL04 cultured on *Leucaenaleucocephala* wood under submerged fermentation. *Bioresource technology*, 236, 29-36.
- **Singh, M. K.**, Singh, J., Kumar, M., & Thakur, I. S. (2014). Novel lipase from basidiomycetes *Schizophyllum commune* ISTL04, produced by solid state fermentation of *Leucaenaleucocephala* seeds. *Journal of Molecular Catalysis B: Enzymatic*, 110, 92-99.
- Singh, J., **Singh, M. K.**, Kumar, M., & Thakur, I. S. (2015). Immobilized lipase from *Schizophyllum commune* ISTL04 for the production of fatty acids methyl esters from cyanobacterial oil. *Bioresource technology*, 188, 214-218.
- Kumar, M., Singh, J., **Singh, M. K.**, Singhal, A., & Thakur, I. S. (2015). Investigating the degradation process of kraft lignin by  $\beta$ -proteobacterium, *Pandoraea* sp. ISTKB. *Environmental Science and Pollution Research*, 22(20), 15690-15702.
- Das, M. T., **Singh, M. K.**, & Thakur, I. S. (2014). Differential toxicological endpoints of di (2-ethylhexyl) phthalate (DEHP) exposure in MCF-7 and MDA-MB-231 cell lines: Possible estrogen receptor  $\alpha$  (ER $\alpha$ ) independent modulations.
- Maurya, I. K., Thota, C. K., Sharma, J., Tupe, S. G., Chaudhary, P., **Singh, M. K.**, ... & Chauhan, V. S. (2013). Mechanism of action of novel synthetic dodecapeptides against *Candida albicans*. *Biochimica et Biophysica Acta (BBA)-General Subjects*, 1830(11), 5193-5203.

### Book chapters

- **Singh, M. K.**, Maurya, A., & Kumar, S. (2020). Bioaugmentation for the treatment of waterborne pathogen contamination water. In *Waterborne Pathogens* (pp. 189-203). Butterworth-Heinemann.
- Kumar, S., Gupta, A. K., Maurya, A., & **Singh, M. K.** (2020). Chemical treatment for removal of waterborne pathogens. In *Waterborne Pathogens* (pp. 205-218). Butterworth-Heinemann.
- Maurya, A., **Singh, M. K.**, & Kumar, S. (2020). Biofiltration technique for removal of waterborne pathogens. In *Waterborne Pathogens* (pp. 123-141). Butterworth-Heinemann.

## Conference / Presentations / Workshops

### Workshop/Trainings Attended

- Volunteered in organizing a workshop on "Hands-on to Computational Biology for (meta) genomic analysis" jointly organized by Department of Zoology and Botany, Acharya Narendra Dev College, University of Delhi under the aegis of DBT Star College Scheme from April 4-5, 2019.
- Volunteered in organizing an International Conference on emerging trends in biotechnology (ICETB) organized by The Biotech Research Society, India and Jawaharlal Nehru University New Delhi, India in 2014.
- Presented the research finding as poster in International Conference on emerging trends in biotechnology (ICETB) organized by The Biotech Research Society, India and Jawaharlal Nehru

University New Delhi, India in 2014.

- Presented the research finding as poster in “International Humboldt Kolleg on Management of Water, Energy and Bioresources in Changing Climate Regime: Emerging Issues and Environmental Challenges, Jawaharlal Nehru University, New Delhi, India” in 2013.
- Presented the research finding as poster in “Environmental HEALTH 2013 Science and Policy to protect future generation, Boston, USA” in 2013.
- Presented the research finding as poster in International Conferences on Advances in Biotechnology and Bioinformatics (ICABB) organized by The Biotech Research Society, India and Dr. D.Y. Patil Vidyapeeth, Pune, India in 2013.
- Participated in the workshop on “Applications of Mass Spectrometry for Proteomics” conducted by Advanced Instrumentation Research Facility, Jawaharlal Nehru University, New Delhi, India, 30<sup>th</sup> April- 2<sup>nd</sup> May 2012.
- Participated in “International Conference on Microorganisms in Environmental Management and Biotechnology ( ICMEMB 2011)” organized by Department of Biotechnology & Bioinformatics centre, Barkatullah University, Bhopal-462026, M.P., India in 2011.
- Participated in “BIOEPOCH 2011 3<sup>rd</sup> Annual Conference” organized by School of Biotechnology, Jawaharlal Nehru University, New Delhi-110067, India.
- Participated in symposium on “Environmental and Occupational Health: Issues and Challenges” organized by Asian Institute of Public Health, Bhubaneswar, Indian Public Health Association-Delhi State Branch & University of Nebraska Medical Centre, USA In collaboration with WHO and DGHS, MOHFW, GOI .

#### **Invited Lectures**

- Resource Person in 3 days workshop Learning Science: The “Do It Yourself” Way organized in collaboration with National Bal Bhavan, under the aegis of DBT Star College Scheme. July 17-19, 2019.
- Resource Person in RBPT based workshop “*Microbial Techniques*- an Interdisciplinary Workshop for the students of Acharya Narendra Dev College” organized by Tarumitra, Botanical Society of Acharya Narendra Dev College on 10<sup>th</sup> -11<sup>th</sup> January 2018.
- Invited as a Resource Person in National Symposium on “Contemporary Environmental Concerns 2018” organized by Acharya Narendra Dev College, University of Delhi on March 15-17, 2018.

#### **Research Projects (Major Grants/Research Collaboration)**

#### **Awards and Distinctions**

2010: Qualified **CSIR-UGC JRF** in Life Sciences  
2008: Qualified **GATE** in Life Sciences with score **96.48**

#### Association With Professional Bodies

Life Member of the Biotech Research Society of India (LM 1546)

#### Other Activities

- Member of the Society of The National Service Scheme (2015-18)
- Member of College Cultural Society (Since 2018)
- Member of College Admission Committee (Since 2018)
- Member, Garden Committee of College (Since 2019)
- Organized the visits of undergraduate students to Delhi Jal Board Sewage treatment plant, Sulabh Toilet Complex and Museum and Central Pollution Control Board (CPCB).
- Organized the visits for students to various National Institutes as part of their curriculum
- Appointed as Convener/Member of the committee for question paper setting of BSc (H) Botany students by University of Delhi.
- Appointed as External examiner to conduct practical examination in different colleges by University of Delhi.

Signature of Faculty Member