

RESUME

Title	Dr.	First Name	Anjana	Last Name	Singh	Photograph
Designation		Assistant Professor				
Address		Tower-6, Flat no.- 601, Civitech Florencia Park Sapphire Apartment, Ramprastha Greens, Sec-7, Vaishali, Ghaziabad, U.P. Pin code – 201010.				
PhoneNo. Residence		0120-3154769				
Mobile		+91-9871157541				
Email		<u>asingh12@db.du.ac.in</u>				
Web-Page		<u>https://sites.google.com/db.du.ac.in/anjana-singh-botany/home</u>				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Department of Botany, Jamia Hamdard University			Submitted Dec. 2025 Ph.D Viva May 2026	
M.Phil.		Department of Botany, University of Delhi.			2007	
PG		Department of Botany, University of Delhi.			2005	
PG		Sikkim Manipal University, Gangtok			2004	
UG		Maitreyi College, University of Delhi			2002	
Any other qualification		◆ Qualified UGC-NET (LS) in Environmental Sciences held in December 2005. ◆ Qualified CSIR-UGC-NET (LS) in Life Sciences held in December 2006. ◆ Qualified Agricultural Scientists Recruitment Board (ICAR) National Eligibility Test for Lectureship held in January 2007.				
Career Profile						
Organisation / Institution		Designation		Duration		Role
Sri Venkateswara College		Assistant Professor		Sept.2005		Teaching (Ad-hoc)
University of Delhi				April 2006		
KiroriMal College		Assistant Professor		July 2008 - Nov. 2012		Teaching (Ad-hoc)
University of Delhi						
Deshbandhu college		Assistant Professor		Jan. 2013- till Present		Teaching (Ad-hoc)
University of Delhi						

Deshbandhu college University of Delhi	Assistant Professor	01 Feb, 2023	Permanent
Administrative Assignments			
Worked in several Committees as a member or convenor in the past years- Examination Committee Admission Committee IQAC Extended Committee Deshbandhu Dramatic Society (Street) Mentor-Mentee student's groups Cultural Committee Prospectus Committee Social Media NAAC Criteria-7 Academic Audit NAAC Committee Discipline Committee Financial Assistance Committee Sports Committee Purchase Committee Canteen Committee			
Areas of Interest/Specialization			
Plant Virology, Molecular Plant Pathology, Plant Disease Diagnostics, Bryophyte Diversity and Ecology, Climate Change Biology, Heavy Metal and Pollutant Bioaccumulation, Environmental Monitoring, Biodiversity Conservation, Pollution Biology, and Sustainable Environmental Management.			
Subjects Taught			
Archegoniatae Ecology Economic Botany Anatomy Environmental Science Biodiversity Plant Pathology Emotional Intelligence Plant Diversity and Evolution Plant Diversity and Systematics Industrial and Environmental Microbiology Environmental Monitoring and Ecosystem Restoration Environmental Biotechnology & Management			
Publications Profile- Research Papers			
1. Santosh Kumar Vats, Anjana Singh, Monika Koul and Prem Lal Uniyal 2010. Study on the Metal Absorption by two Mosses in Delhi Region (India). Journal of American Science. 6(3): 176-181. ISSN: 1545-1003. 2. Anjana Singh, Anjuli Sood, Prabha Sharma and P.L. Uniyal 2017. Assessment of Accumulation of some Heavy Metals in Mosses of Idukki District, Kerala (Western			

- Ghats, India). International Journal of Plant and Environment. 3(1): 15-19. ISSN: 2454-1117.
3. Rekha Tyagi, **Anjana Singh** (Corresponding author), Anjali Sood and P.L. Uniyal 2017. Abiotic Stress Responses in Plants: Potential Targets on Studying Heavy Metal Stress tolerance in Bryophytes. International Journal of Plant and Environment. 3(1): 41-51. ISSN: 2454-1117.
 4. **Anjana Singh** and P. L. Uniyal 2018. Study on the Accumulation of Heavy Metals in Some Epiphytic Mosses of Nainital City, Uttarakhand, India. Cryptogam Biodiversity and Assessment. 3(1): 1-6. e-ISSN: 2456-0251.
 5. Shelly Sinha, **Anjana Singh**, Dwaipayan Sinha and Reshmi Chatterjee. October 2021 A Review on Bryophytes as Key Bio-indicators to Monitor Heavy Metals in the Atmosphere. International Journal of Plant and Environment, Volume 7(1): 49-62. ISSN: 2454-1117 (Print), 2455-202X (Online).
 6. **Anjana Singh**, Shelly Sinha & P.L. Uniyal October 2021. Insights into the cytological diversity within different members of Bryophytes: an overview. Phytotaxonomy- Journal of Association for Plant Taxonomy, Volume 19: 117-122. ISSN: 0972-4206.
 7. **Anjana Singh**, Yasheshwar, Naveen K. Kaushik, Deepak Kala, Rupak Nagraik, Shagun Gupta, Ankur Kaushal, Yashika Walia, Sunny Dhir, Md Salik Noorani. 25 March 2025. Conventional and cutting-edge advances in plant virus detection: emerging trends and techniques, 3 Biotech. 15:100 <https://doi.org/10.1007/s13205-025-04253-1>.
 8. Zahid Khorshid Abbas#, **Anjana Singh**#, Md Salik Noorani, Mirza Sarwar Baig, Sulaiman Ali Alharbi, Yussri Moh'd Y. Mahrous, Naif Abdulrhman Zabin Alnefie, Moawia Mukhtar Hassan, and Zahid Hameed and Zahid Hameed Siddiqui* 17 July 2025. Molecular Characterization and Genetic Diversity of Broad Bean Wilt Virus 2 (BBWV-2) from *Catharanthus roseus*. ACS Omega. <https://doi.org/10.1021/acsomega.5c04600>. # These authors contribute equally
 9. Arushi Dogra, Nandini, Raj Kumar, Shekhar Nagar, Sanjay Kumar, **Anjana Singh**, Nidhi Garg, Simran Jit, Jaya Malhotra, Ajaib Singh and Kiran Bala December 2025. Nutraceuticals: A futuristic approach in the field of biotechnology and nanotechnology. Indian Journal of Natural Products and Resources Vol. 16(4), pp 568-583 DOI: 10.56042/ijnpr.v16i4.16352.
 10. MD SALIK NOORANI, Zahid Hameed Siddiqui, Zahid Khorshid Abbas, Anjana Singh, Mirza Sarwa Baig, Sulaiman Ali Alharbi, Yussri Mohd Y. Mahrous, Naif Abdulrahman Zabin Alnefieia, Moawia Mukhtar Hassan, M. Nasir Khan (March 2026). Detection and characterization of an isolate of cucumber mosaic virus infecting *Catharanthus roseus* using deep sequencing” accepted in Phyton-International Journal of Experimental Botany. ISSN:1851-5657.

Publications Profile- BOOK CHAPTERS

1. Dwaipayan Sinha, **Anjana Singh** and Pawan Kumar June 2021. Chapter 1- Introduction to Bioentrepreneurship. Book titled “Bioentrepreneurship and Transferring Technology Into Product Development” Chapter in a volume in the Advances in Business Strategy and Competitive Advantage (ABSCA) Book Series Published in the United States of America by IGI Global Business Science Reference (an imprint of IGI Global) 701 E. Chocolate Avenue Hershey PA, USA 17033: 1-21. ISSN: 2327-3429; eISSN: 2327-3437.
2. **Anjana Singh** and Shelly Sinha July 2021. Chapter 15- Ethnobotanical and Medicinal Importance of Bryophytes. Book titled “Hand Book of Agriculture & Plant Sciences”. Published by ABS Books, B-21, Ved and Shiv Colony, Budh Vihar Phase-2, Delhi -

110086. India Pg no. 309-333. ISBN: 978-93-91002-25-1 3. Soumi Datta, Dwaipayan Sinha, Vidhi Chaudhary, Somnath Kar and Anjana Singh December 2021. Chapter 3- Water Pollution of Wetlands: A Global Threat to Inland, Wetland, and Aquatic Phytodiversity. Published in the United States of America by IGI Global Business Science Reference (an imprint of IGI Global) 701 E. Chocolate Avenue Hershey PA, USA: 27-50. ISSN No. 2330-3271. 4. Anjana Singh, Priyanka De and Dwaipayan Sinha. April, 2022. Chapter 3- COVID-19 and Vaccine Management: An Overview Pathos of Pandemic: COVID-19. Published by New Delhi Publishers. Pg no. 25-41 ISBN: 978-93-93878-007. 5. Anjana Singh, Samira Chugh, Dwaipayan Sinha and Arpita De, August, 2022. Chapter-2 "Role of Nanotechnology in Fortifying Nutraceuticals". Published by Wiley Scrivener. "Handbook on Nanotechnology in functional Foods". Pg no. 25–60 ISBN: 9781119904823. 6. Dwaipayan Sinha, Satarupa Dey and Anjana Singh August, 2022. Chapter-14 "Role of Rhizobacteria in Phytoremediation of Metal-Impacted Sites". Published by Springer Nature, Switzerland in the book entitled "Microbial and Biotechnological Interventions in Bioremediation and Phytoremediation. Pg no. 297–336, ISBN: 978-3-031-08829-2, ISBN: 978-3-031-08830-8 (eBook). 7. Bala K., Verma S., Dogra A., Kumar R., Singh A. and Lata P. (May 2024) "Advanced bioprocessing methods: Enhancing production, processing, and isolation of microbial products". Published in: IIP Series, e-ISBN: 978-93-6252-751-6, IIP Series, Volume 3, Book 4, Part 1, Chapter 9, Pg no.-140-166. https://www.doi.org/10.58532/V3BJBT4P1CH9. 8. Bala K., Dogra A., Lata P., Singh A. and Nagar S. (May 2024) "Bioreactors: Vessel for biochemical production and beyond". Published in: IIP Series, e-ISBN: 978-93-6252-751-6, IIP Series, Volume 3, Book 4, Part 1, Chapter 1, Pg no.-1-18 https://www.doi.org/10.58532/V3BJBT4P1CH1. 9. Shelly Sinha#, Anjana Singh#, Princi, Mumtaz and Md. Salik Noorani (May 2024). Bioremediation: Harnessing nature's cleanup crew with a sustainable approach. Published in: IIP Series: Futuristic Trends in Biotechnology e-ISBN: 978-93-6252-751-6 IIP Series, Volume 3, Book 4, Part 1, Chapter 8, Pg no.-112-139. # These authors contribute equally 10. Princi, Mumtaz, Anjana Singh, Md. Salik Noorani and Shahid Umar (May 2024). Herbal medicine in india: contemporary status and molecular marker integration in herbal drug technology. Published in: IIP Series: Futuristic Trends in Biotechnology e-ISBN: 978-93-6252-391-4 IIP Series, Volume 3, Book 19, Part 4, Chapter 7, Pg no.-127-143. 11. Somnath Kar, Arpan Dey, Murad Muhammad, Moumita Chatterjee, Anjana Singh, Asha Kadam, Atithi Debnath, Dwaipayan Sinha, Muhammad Ibrahim. (February 2025). Chapter 17 Invasive plants. Forest Sciences. PEACE International Publishers, Pakistan. 229-249.	Research Projects (Major Grants/Research Collaboration)
1. Floristic study of Deshbandhu College, with special reference to indigenous plants of medicinal importance.	Awards and Distinctions
Qualified UGC-NET (LS) in Environmental Sciences held in December 2005.	
Qualified CSIR-UGC-NET (LS) in Life Sciences held in December 2006.	
Qualified Agricultural Scientists Recruitment Board (ICAR) National Eligibility Test for Lectureship held in January 2007.	

Awarded with GREEN EDUCATION AND EMPLOYMENT (GEE) AWARD for outstanding work done in the areas of green education and awareness on the 11th World Environment Congress- 2002 at the India International Centre, New Delhi, India, held on December 5-7, 2002.

Awarded the 2003 WED ENVIRONMENTAL PROTECTION AWARD for outstanding work done in the areas of environmental education and awareness on World Environment Day- 2003, at India International Centre, New Delhi, India, held on 5th June 2003.

Awarded with PROMISING SCHOLAR AWARD for outstanding performance in the area of eco-education on World Higher Education and Development Day at India International Centre, New Delhi, India, held on April 15, 2004.

Awarded with ECO-LEARNING AWARD in Tertiary Education and Knowledge Summit with the theme "Tertiary Education in the Third Millennium: Need for Global Partnership" at India International Centre, New Delhi, held on December 30-31, 2004.

Secured IInd Best Poster Presentation Award in the International Conference cum Workshop on Proteomics, Transcriptomics, and Molecular Drug Design: An Integrated Omics Approach, organised by the Department of Botany, Zakir Husain Delhi College, in collaboration with the Plant Molecular Genetics Laboratory, Department of Botany, University of Delhi, during May 25-27, 2022.

Secured Best Paper Presentation Award in a National Conference on Ashwagandha-A Health Promoter- 2025. Presented a Paper titled "Molecular Insights into Viral Infections in *Catharanthus roseus*: A Key Medicinal Plant", organised by the Department of Zoology, Deshbandhu College, University of Delhi, supported by the National Medicinal Plants Board (NMPB), Ministry of Ayush, Govt. of India, on March 4-5, 2025.

Invited Lectures

1. Delivered lecture on the topic '**Introduction to soil types, characterization of soil and understanding soil degradation**' for 2 hours from 2:30 pm till 4:30 pm at Gandhi Peace Foundation, 221-23, Deen Dayal Upadhyaya Marg, Pragati Maidan, New Delhi **under the Green Skill Development Programme (GSDP) Course on "Valuation of Ecosystem Services and Green GDP"** in line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate Change (MoEF&CC) organized by the School of Planning and Architecture, ENVIS Resource Partner on Human Settlements and their Impact on Environment on **January 24, 2020**.
2. Delivered lecture on the topic '**Soil Conservation & Management Techniques**' for 2 hours from 02:30 pm till 04:30 pm at Gandhi Peace Foundation, 221-23, Deen Dayal Upadhyaya Marg, Pragati Maidan, New Delhi **under the Green Skill Development Programme (GSDP) Course on "Valuation of Ecosystem Services and Green GDP"** in line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate Change (MoEF&CC) organized by the School of Planning and Architecture, ENVIS Resource Partner on Human Settlements and their Impact on Environment on February 10, 2020.
3. Delivered lecture on the topic '**Plants as air pollution indicators and mitigators & 'Sensitive and Tolerant plant species for different air pollutant'** for 2 hours from 10:30 am till 12:30 pm at Gandhi Peace Foundation, 221-23, Deen Dayal Upadhyaya Marg, Pragati Maidan, New Delhi **under the Green Skill Development Programme (GSDP) Course on "Green Belt Development for Industries"** in line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate

Change (MoEF&CC) organized by the School of Planning and Architecture, ENVIS Resource Partner on Human Settlements and their Impact on Environment on February 19, 2020.

4. Delivered lecture on the topic '**Sources of noise pollution from industrial and urban areas, noise control and abatement measures using plants**' for 2 hours from 11:00 pm till 01:00 pm at Gandhi Peace Foundation, 221-23, Deen Dayal Upadhyaya Marg, Pragati Maidan, New Delhi **under the Green Skill Development Programme (GSDP) Course on "Green Belt Development for Industries"** in line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate Change (MoEF&CC) organized by the School of Planning and Architecture, ENVIS Resource Partner on Human Settlements and their Impact on Environment on March 7, 2020.
5. Delivered a lecture on the topic "THERAPEUTICS & ETHNOMEDICINAL IMPORTANCE OF BRYOPHYTES" organised by the Department of Botany and Zoology of Maharani Kishori Memorial Kanya Mahavidyalaya, Hodal, Distt.Palwal Haryana (Affiliated to M.D.U, Rohtak, Approved by NCTE & AICTE) on February 6, 2022.
6. Delivered lecture on the topic '**Introduction to soil types, characterization of soil and understanding soil degradation**' for 2 hours from 2:30 pm till 4:30 pm at Gandhi Peace Foundation, 221-23, Deen Dayal Upadhyaya Marg, Pragati Maidan, New Delhi **under the Green Skill Development Programme (GSDP) Course on "Valuation of Ecosystem Services and Green GDP"** in line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate Change (MoEF&CC) organized by the School of Planning and Architecture, ENVIS Resource Partner on Human Settlements and their Impact on Environment on **March 11, 2022**.
7. Delivered lecture on the topic '**Soil Conservation & Management Techniques**' for 2 hours from 02:30 pm till 04:30 pm at Gandhi Peace Foundation, 221-23, Deen Dayal Upadhyaya Marg, Pragati Maidan, New Delhi **under the Green Skill Development Programme (GSDP) Course on "Valuation of Ecosystem Services and Green GDP"** in line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate Change (MoEF&CC) organized by the School of Planning and Architecture, ENVIS Resource Partner on Human Settlements and their Impact on Environment on **March 14, 2022**.
8. Delivered lecture on the topic '**Plants as air pollution indicators and mitigators**' & '**Sensitive and Tolerant plant species for different air pollutant**' for 2 hours from 10:30 am till 12:30 pm at Gandhi Peace Foundation, 221-23, Deen Dayal Upadhyaya Marg, Pragati Maidan, New Delhi **under the Green Skill Development Programme (GSDP) Course on "Green Belt Development for Industries"** in line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate Change (MoEF&CC) organized by the School of Planning and Architecture, ENVIS Resource Partner on Human Settlements and their Impact on Environment on **March 26, 2022**.
9. Delivered lecture on the topic '**Sources of noise pollution from industrial and urban areas, noise control and abatement measures using plants**' for 2 hours from 11:00 pm till 01:00 pm at Gandhi Peace Foundation, 221-23, Deen Dayal Upadhyaya Marg, Pragati Maidan, New Delhi **under the Green Skill Development Programme (GSDP) Course on "Green Belt Development for Industries"** in line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate Change (MoEF&CC) organized by the School of Planning and Architecture, ENVIS Resource Partner on Human Settlements and their Impact on Environment on **March 26, 2022**.

10. Resource person for three technical sessions in National Workshop-cum-Training for Capacity Building and Empowering Laboratory Skills organised by Deshbandhu College in collaboration with USIC, University of Delhi, from 14th to 19th July 2025.

Poster / Oral Presentation

1. Presented a poster on 'Prospects of Nanotechnology in Insect-Pest Management' in the National Conference on "Insect-Plant Biology in 21st Century" organised by the Department of Zoology, Deshbandhu College, University of Delhi, Delhi, held on November 4-5, 2019.
2. Participated in an oral presentation titled "Sustainable Ocean Economy In Breaking The Plastic Wave - A Review" in the International Interdisciplinary e-Conference on "*Sustainable Future for Humanity: The New Learning Curve*" organised by Maitreyi College, University of Delhi, on February 24, 2021.
3. Presented a Paper titled "Digital Education and e- Pedagogical Tools in NEP through IPR Perspective" in the National Conference on "National Education Policy: Implementation, Challenges, Opportunities and Probable Outcomes" organized by Deshbandhu College, University of Delhi on May 14, 2022.
4. Presented a Poster titled "Detection of known and novel plant viruses using next-generation sequencing" and secured **IInd Best Poster Presentation Award** in the International Conference cum Workshop on Proteomics, Transcriptomics, and Molecular Drug Design: An Integrated Omics Approach organised by Department of Botany, Zakir Husain Delhi College in collaboration with Plant Molecular Genetics Laboratory, Department of Botany, University of Delhi during May 25-27, 2022.
5. Presented a Paper titled "Water Crisis- A global threat, its impact and challenges" during the national conference on "Sustainable environmental Perspectives: A Journey from Ancient India" organized by Environmental Studies and Department of Botany, Deen Dayal Upadhyaya College, University of Delhi in association with Paryavaran Gatividhi, Sharanya (NGO), New Delhi, on 5-6th June, 2022.
6. Presented a Paper titled "Viruses and their Impact on *Catharanthus roseus*: Unravelling the Intricate Relationship" In an International Conference on Integrative Chemical Science for Health & Environment -2023 (ICHE-2023), organised by the Department of Chemistry, Deshbandhu College, University of Delhi, Delhi, on October 6-8, 2023.
7. Presented a Paper titled "Molecular Insights into Viral Infections in *Catharanthus roseus*: A Key Medicinal Plant" and secured **Best Paper Presentation Award** in a National Conference on Ashwagandha-A Health Promoter- 2025 organized by the Department of Zoology, Deshbandhu College, University of Delhi, supported by National Medicinal Plants Board (NMPB), Ministry of Ayush, Govt. of India on March 4-5, 2025.

Dr. Anjana Singh

Name of Candidate

Signature of Candidate