



DEPARTMENT OF BOTANY
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL



Title	PROFESSOR	First Name	JASLEEN KAUR	Last Name	KALIA	Photograph
Designation	PROFESSOR					
Address	J-164 VIKASPURI NEW DELHI-110018					
Phone No Office	24367819					
Residence	011-28544120					
Mobile	9811193353					
Email	jasleen@dsc.du.ac.in					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
B.Sc (Hons) BOTANY	UNIVERSITY OF DELHI				1994	
M.Sc BOTANY	UNIVERSITY OF DELHI				1996	
PhD	UNIVERSITY OF DELHI				2000	
Career Profile						
<p>Prof. Jasleen Kaur Kalia graduated from SGTB Khalsa College, University of Delhi in 1994. She did her post-graduation from the Department of Botany in 1996 followed by PhD in 2000 with a specialisation in Ecology. She was awarded joint CSIR-UGC NET and is a recipient of a Junior and Senior Research Fellowship from the Council of Scientific and Industrial Research (CSIR). Prof Jasleen taught in Miranda House, Ramjas College, SGTB Khalsa College and Kalindi College before joining Dyal Singh College, University of Delhi in 2009. She has 21 years of teaching experience and has taught courses in Ecology, Reproductive Biology of Angiosperms and Economic Botany. Prof. Jasleen has 19 research papers, 10 book chapters and 11 poster/paper presentations to her credit. She has participated in 11 international and 25 national conferences/symposia/seminars. She has also attended 8 workshops. She has been a member of the Departmental Research Committee (DRC) in the Department of Environmental Studies, University of Delhi and a member of the Committee of Courses, Department of Botany, University of Delhi. She worked as a member of, the Syllabus Setting and Improvement Committee for Annual mode, Semester System, FYUP, CBCS, LOCF, and UGCF (NEP) courses. She co-investigated a Delhi University-funded Innovation Research Project (project code DSC 201) on the topic, "Removal of toxic chemicals from laboratory affluent using green technologies", in 2013-15. She has also convened 14 national workshops/symposia. Prof. Jasleen is a life member of the Delhi University Botanical Society (DUBS), Society of Ecological Research and Natural Resource Management (SERNRM) and Life member of the Indian Network for Soil Contamination Research (INSCR)</p>						
Administrative Assignments (From 1st July 2019 onwards)						
<ol style="list-style-type: none"> 1. Admission Committee Convener (Botany Hons) (2021-2022; 2024-25) 2. Convener Academic Committee (Botany) (2013-2014; 2020-2021, 2023-24) 3. Convener (Botany) Timetable committee (2013-2021, 2022-2023, 2023-24, 2024-25); Co-Convener Timetable (Botany) (2021-2022) 4. Deputy Superintendent Practical Examinations (Botany) (2013 – 2014; 2021-22) 5. Deputy Superintendent (OBE) (Aug 2020; Nov-Dec 2021; March 2022) 6. Deputy/ Additional Superintendent (2023-24, 2024-25) 7. Member Environmental Club (2017-2022) 8. Member College Function Organising Committee (2021-22, 2022-23, 2023-24, 2024-2025) 9. Convener Anti-Ragging Committee (2019-2022), Member (2011-2018) 10. Convener Botanical Society (2009-2013; 2018-2020) 						

<ol style="list-style-type: none"> 11. Member Smoke-free campus committee (2017-2025) 12. Convener Botany Screening Committee for the permanent post (2019) 13. Teacher Convener DSC Rotary Club (Since 2019) 14. Member NAAC Steering Committee (2021-22) 15. NAAC visit preparation committees: Convener Signage's Committee (March 2022- till date) 16. Convener Committee for bids for Housekeeping and Security services for the college received through GeM portal (June 2024-till date; Member (Since March 2022-June 2024) 17. Member of the Scrutiny Committee for Promotion to Associate Professor (Stage-3 to 4) and Professor (Stage-4 to 5) (April 1st, 2022-till date) 18. Convener Stage Decoration Committee (Annual Day on 28th April 2022) 19. Nodal Officer for the Examination (Physical Mode) May / June 2022 till date- Dyal Singh College 20. Coordinator Timetable Committee (2022-23); Science Convener (2024-25) 21. NAAC Committee Nominated Member (Oct 2022-till date) 22. Teacher Coordinator for G20 Program (Feb 21, 2023-) 23. Convener Stage Decoration Committee (Annual Day on 27th April 2023) 24. Teacher-in charge Department of Botany (May 1, 2023- till date) 25. Coordinator- Academic Committee (2024-25) 26. Convener Stage Decoration Committee (Orientation Day on 30th August 2024) 27. Member, PLAGIARISM CHECKING COMMITTEE (August 23, 2023-till date) 28. Member Election Committee of the College for D.U.S.U and College Students' Union Elections 2023- 2024, 2024-25 29. Member SCIENCE FAIR: ORGANIZING COMMITTEE - Reel Making (21 November 2023-29 February 2024) 30. Member of IQAC AQAR Committee (2022-Till date) 31. Member of IQAC Extended Committee - Happiness Workshop Team (19 July 2023-Till date) 32. Member Garden Committee, University of Delhi (Aug, 26, 2022-till date)
Areas of Interest / Specialization
ECOLOGY AND ENVIRONMENT
Subjects Taught
BOTANY
Research Guidance
<ol style="list-style-type: none"> 1. A SYNOPSIS ON-A STUDY OF BIO MEDICAL WASTE MANAGEMENT IN TERTIARY CARE HOSPITAL IN GURGAON Master of Science (Environmental Science) IGNOU University NAME: LALIT KUMAR SAGAR ENROLLMENT NO.: 210030611 2. PROJECT PROPOSAL AN OBSERVATIONAL STUDY ON WOMEN'S ROLE TOWARDS ENVIRONMENT IN PACHIM VIHAR, DELHI Master of Science (Environmental Science) IGNOU University SUBMITTED BY: AMAN MAHLA ENROLMENT NO: 2100305964
Publications Profile
<p>(Mention total no. and details from 1st July 2018 onwards only) TOTAL =15</p> <ol style="list-style-type: none"> 1. Jasleen Kaur 2019. Ecological responses of <i>Zizyphus nummularia</i> to biotic opening up of the forested cover. RJSET 9 (2) pg 62-73. ISSN 2454-3195 (O). 2. Charu Dogra Rawat Helianthous Verma, Sonika Phian, Priya Lakra, Jasleen Kaur, Sanjukta Subudhi, Rup Lal 2020 Human Gut Microbiota and Mental Health: Advancement and Challenges in Microbe-based Therapeutic Intervention. Indian Journal of Microbiology. Pages15 ISSN 0973-7715 (O) 0046-8991 (Print) IF 2.461 3. Navneet Manav and Jasleen Kaur 2021. IPR AND BIOTECHNOLOGICAL INNOVATIONS in book entitled "Intellectual Property Rights: Issues and Prospects". Pages 71-77. First published in India in October 2021 by Imperial Publications, Mumbai. ISBN: 978-81-949439-8-3

4. Sonika Phian, Shilpi Nagar, **Jasleen Kaur**, Charu Dogra Rawat 2022. Emerging Issues and Challenges for Microbe Assisted Remediation in book entitled “Microbes and Microbial Biotechnology for Green Remediation” Elsevier. ISBN: 9780323904520
5. Pandit, M.A.; Kumar, J.; Gulati, S.; Bhandari, N.; Mehta, P.; Katyal, R.; Rawat, C.D.; Mishra, V.; **Kaur, Jasleen**. Major Biological Control Strategies for Plant Pathogens. *Pathogens* (ISSN 2076-0817) 2022, 11, 273. <https://doi.org/10.3390/pathogens11020273>. IF 3.018
6. Pandit M A, Gulati S, Bhandari N, Tarkeshwar, Mehta P, Katyal R, Rawat C D, **Kaur Jasleen**. Sustainable Management Strategies and Biological Control in Apple Orchards – Indian Perspective. *Plant Science Today* 9(2):443–453. (eISSN: 2348-1900) <https://doi.org/10.14719/pst.1547>
7. Rawat, V. S., **Kaur, Jasleen**, Bhagwat, S., Pandit, M. A., & Rawat, C. D. Deploying Microbes as Drivers and Indicators in Ecological Restoration. *Restoration Ecology* (Online ISSN:1526-100X), e13688. First published: 22 March 2022 <https://doi.org/10.1111/rec.13688> IF 3.404
8. Gulati, S.; Chitralkha, P.; Pandit, M.A.; Katyal, R.; Bhandari, N.; Mehta, P.; Rawat, C.D.; Kaur, S.; **Kaur Jasleen**. Diversity, Succession and Seasonal Variation of Phylloplane Mycoflora of *Leucaena leucocephala* in Relation to Its Leaf Litter Decomposition. *Journal of Fungi* (ISSN 2309-608X) 2022, 8, 608. <https://doi.org/10.3390/jof8060608> Impact Factor: 5.816
9. Saloni Gulati, Anita Narang, Anupama Shukla, Roma Katyal, Rashmi Mathur, **Jasleen Kaur**. Sep 2022. Arbuscular Mycorrhizal Fungi and Host Plant relationship with respect to Heavy Metal remediation of Soil. 20 September 2022. *KAVAKA* 58 (3): 61-74. <https://doi.org/10.36460/Kavaka/58/3/2022/61-74>
10. Manisha Arora Pandit, Kapinder, **Jasleen Kaur** and Tarkeshwar Oct 2022. Microbial Nanostructures and Their Application in Soil Remediation in book entitled “Environmental Applications of Microbial Nanotechnology, Emerging trends in Environmental Remediation” Elsevier. USA. ISBN: 978-0-323-91774-5
11. Tarkeshwar’ Manisha Arora Pandit’ Kapinder, Kriti Bhardwaj, **Jasleen Kaur**. Oct 2022. Microbial Nanotechnology: A potential tool for a sustainable environment in book entitled “Environmental Applications of Microbial Nanotechnology, Emerging trends in Environmental Remediation” Elsevier. USA. ISBN: 978-0-323-91774-5
12. Bhandari N, Mehta P, **Kaur Jasleen**, Chitralkha P, Gulati S, Katyal R. April 13 2023. Structure, development and histochemistry of embryo and endosperm in *Sesbania speciosa* Taub. *Ex Engl. Plant Science Today* 10(3):6-17 (Early Access). <https://doi.org/10.14719/pst.1930> eISSN: 2348-1900.
13. Saloni Gulati and **Jasleen Kaur** Potential of decomposing leaf litter of *Leucaena leucocephala* in influencing mycoflora of the soil and its role in increasing soil fertility. 11 July 2023 (published online). *Vegetos* <https://doi.org/10.1007/s42535-023-00654-w> Electronic ISSN:2229-4473
14. Charu Dogra Rawat, Sonika Phian, Renu Gupta, Helianthous Verma, Mohit Kumar, **Jasleen Kaur** and Varunendra Singh Rawat. April 2023. Microbial bioprocesses in remediation of contaminated environments and resource recovery. In Book “Microbial BIOPROCESSES Applications and Perspectives”. Academic Press- Imprint of Elsevier ISBN: 978-0-323-95332-0 <https://doi.org/10.1016/B978-0-323-95332-0.00005-3>

Conference Organization/ Presentations (From 1st July 2019 onwards)

Conference Organization

1. **Convener** in Workshop on “Recent Trends in Plant Systematics and Future Prospects” organised by Department of Botany Dyal Singh College (DU) on March 12, 2019
2. **Convener** in National Symposium on “BIOIMAGING” organised by Department of Botany Dyal Singh College (DU) on February 19, 2020.
3. **Convener** in National Webinar on “BIODIVERSITY AND MAN” organized by Department of Botany Dyal Singh College (DU) in collaboration with SERNRM on June 05, 2020
4. **Moderator & Member of Organizing Committee** in National webinar on “LEGUME DIVERSITY IN INDIA” organized by Society of Ecological Research and Natural Resource Management on June 30, 2020
5. **Member of Organising Committee** of the ‘Smart Protein workshop’ organised by Environment Club of Dyal Singh College in collaboration with the Good Food Institute India from Feb 11, 2021-Feb 18, 2021.

6. **Member of Organising Committee** in online National Seminar on “Intellectual Property Rights : Copyright and Biopiracy Issues” organized by the Department of Botany, Dyal Singh College, under the aegis of IQAC on September 17, 2021.
7. **Member of Organising Committee** of National Science Day on 28th February 2023 **Theme: Global Science for Global Well-being** Organised by Dyal Singh College, University of Delhi
8. **Teacher Convener** in G-20 EXTEMPORE TOPIC: Relevance of "Vasudhaiva Kutumbakam" in today's time organised by IQAC Dyal Singh College on March 15, 2023
9. **Teacher Coordinator of G20 Program** and **Member of Organising Committee** in **National Seminar on Recent Trends in Life Science Entrepreneurship in the Era of G20** held on April 15, 2023, Organised by Department of Botany, Dyal Singh College, University of Delhi
10. **Teacher Coordinator of G20 Program, Teacher-in charge (Botany)** and **Member of Organising Committee** in an **online talk on “ Plastics and Biodiversity ”** held on June 5, 2023, Organised by Department of Botany, Dyal Singh College, University of Delhi
11. **Teacher Convener** in G-20 ONLINE QUIZ THEME: G20 Summits and Conferences An initiative taken by the University of Delhi to reflect India's core ideas of sustainable development organised by IQAC Dyal Singh College on June 23, 2023
12. **Co-Convener** in one week Skill Enhancement Program (Technical Training) organised by IQAC Dyal Singh College from August 21, 2023, to August 25, 2023
13. **Teacher Coordinator of G20 Program, Teacher-in-charge (Botany)** in a workshop “EXPLORING OPPORTUNITIES IN ORGANIC FARMING AND VERICOMPOSTING” held on October 26, 2023, Organised by the Department of Botany, Dyal Singh College, University of Delhi
14. **Member of Organising Committee** in ANTI-SWEAR PROGRAMME including open mic held on November 1, 2023, organised by VIRANGANA Women Development Cell Dyal Singh College (M) (Under the aegis of IQAC)
15. **Member of Organising Committee** in SWAROOP a poster-making competition held on November 1, 2023, organised by VIRANGANA Women Development Cell Dyal Singh College (M) (Under the aegis of IQAC)
16. **Member of Organising Committee** in SEMINAR ON THE PROBLEM OF HUMAN TRAFFICKING held on November 3, 2023, organised by VIRANGANA Women Development Cell Dyal Singh College (M) (Under the aegis of IQAC)
17. **Convener** in INDIAN CULTURE & HAPPINESS, 3.0 workshop organised by Sustainability Forum DYAL SINGH COLLEGE University of Delhi (UNDER THE AEGIS OF IQAC) held on November 8, 2023.
18. **Member of Organising Committee** in SEMINAR ON THE ISSUE OF DOMESTIC VIOLENCE IN INDIA Finding our power within. held on February 23, 2024, organised by VIRANGANA Women Development Cell Dyal Singh College (M) (Under the aegis of IQAC)
19. **Member of Organising Committee** in **workshop** Concepts and Indicators Happiness organised by Sustainability Forum DYAL SINGH COLLEGE University of Delhi (UNDER THE AEGIS OF IQAC) held on February 23, 2024.
20. **Member of Organizing Team** in the "Science Fair 2024" on the theme, "Cutting Edge Science & Technology For Sustainable Future" organised by IQAC Dyal Singh College, University of Delhi, on 28th-29th February 2024.
21. **Member of Organising Committee** in **Happy International Day of Happiness** organised by Sustainability Forum DYAL SINGH COLLEGE University of Delhi (UNDER THE AEGIS OF IQAC) held on March 22, 2024.
22. **Teacher-in-charge (Botany)** in a “PRAKRITI- La Botanique’24, Annual Botanical Fest Organised by the Department of Botany, Dyal Singh College, University of Delhi, held on April 2, 2024.
23. **Member of Organising Committee** in PANEL DISCUSSION on “Equal opportunities for women in various fields” Panelists: Kamini Kusum - Author Tanisha Pandit - Social Activist Shruti Sharma - Student Panelist held on April 15, 2024, organised by VIRANGANA Women Development Cell Dyal Singh College (M) (Under the aegis of IQAC)
24. **Member of Organising Committee** in Annual Cultural Fest KAMAKHYA '24 held on April 15, 2024, organised by VIRANGANA Women Development Cell Dyal Singh College (M) (Under the aegis of IQAC)
25. **Teacher-in-charge (Botany)** in PRAKRITI THE BOTANICAL SOCIETY Valedictory Lecture On "Skill & Entrepreneurship in Floriculture & Landscaping” Organised by the Department of Botany, Dyal Singh College, University of Delhi, held on 29th April, 2024 by DR. S. S. SINDHU

26. **Member of Organizing Team** in the one day National Seminar on “Indian Knowledge Systems - Wisdom through Ages and the Way Forward” held on August 5, 2024, organised by IQAC Dyal Singh College, University of Delhi,

Poster/Paper Presentations

1. Research Poster entitled: Green Technologies for Waste Water Treatment. National conference on Water Sustainability: Conservation, Policy, Ethics and Science. January 21-22, 2020. Organized by Department of Environmental Studies & Srishti: Nature and Environmental Society Zakir Husain Delhi College, University of Delhi.
2. ORAL PRESENTATION on “MICROBIAL BIOCONTROL STRATEGIES OF PLANT PATHOGEN “during the 6th Annual International Conference of Indian Network for Soil Contamination Research (INSCR) on "MICROBES IN SUSTAINABLE DEVELOPMENT “organised in association with the Department of Zoology (DU), Acharya Narendra Dev College (DU), Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), PG Department of Zoology (MU), Maitreyi College (DU), Ramjas College (DU), Sri Venkateswara College (DU), C.M.P. College (AU), SGTB Khalsa College (DU), COCAS (PU) & PhiXgen Pvt. Ltd., Gurugram from November 15 to 18, 2021.
3. ORAL PRESENTATION on CLIMATE CHANGE AND ITS IMPACT ON BIODIVERSITY AND ECOSYSTEMS during “International Conference on Climate Change- An Imminent Global Emergency-2021”, organized by the Department of Environmental Studies, Zakir Husain Delhi College, University of Delhi from December 16th to 18th, 2021.
4. Oral Presentation on “Impending threat to plants that heal”. In National Conference on Medicinal Plants: Frontier Areas of Research and Development held on 16th & 17th of March 2023 at Hansraj College, University of Delhi, Delhi-110007, India Organised by: Department of Botany and Research and Development Cell Hansraj College, University of Delhi, Delhi. Supported by NATIONAL MEDICINAL PLANT BOARD Ministry of Ayush, Government Of India.
5. **ORAL PRESENTATION** entitled “ **The influence of Leucaena leucocephala’s decomposing leaf litter on the soil’s fungal community and its contribution to enhancing soil fertility** ” at the 8th International Conference of Indian Network for Soil Contamination Research (INSCR-2024) on ‘Exploring the Microbial World from Human Health to Environmental Sustainability’ and 4th International Symposium on Ciliate Biology (ISCB-2024), organised by INSCR and Acharya Narendra Dev College, University of Delhi (UoD) from April 03-05, 2024 at Conference Centre, UoD, Delhi, India.
6. **ORAL PRESENTATION** entitled “ **Microbial Nanostructures and Their Application in Soil Remediation** ” at the 8th International Conference of Indian Network for Soil Contamination Research (INSCR-2024) on ‘Exploring the Microbial World from Human Health to Environmental Sustainability’ and 4th International Symposium on Ciliate Biology (ISCB-2024), organised by INSCR and Acharya Narendra Dev College, University of Delhi (UoD) from April 03-05, 2024 at Conference Centre, UoD, Delhi, India.

Research Projects (Major Grants/Research Collaboration) (From 1st July 2019 onwards)

Awards and Distinctions (From 1st July 2019 onwards)

1. Research Poster entitled: Biosafety assessment of food produced by Genetic Modification. National Conference on Challenges and Strategies to Improve Crop Productivity in Changing Environment: An Integrated Approach. 12 January, 2018. Organized by Department of Botany, Zakir Husain Delhi College, University of Delhi. Won a Consolation Prize in the category of Best Poster Award
2. Best Oral Presentation on “Impending threat to plants that heal”. In National Conference on Medicinal Plants: Frontier Areas of Research and Development held on 16th & 17th of March 2023 at Hansraj College, University of Delhi, Delhi-110007, India Organised by: Department of Botany and Research and Development Cell Hansraj College, University of Delhi, Delhi. Supported by NATIONAL MEDICINAL PLANT BOARD Ministry Of Ayush, Government Of India

Association With Professional Bodies

1. Life member of Delhi University Botanical Society (DUBS)
2. Life member of Society of Ecological Research and Natural Resource Management (SERNNRM)
3. Life member of Indian Network for Soil Contamination Research (INSCR)

Other Activities like MOOCs/ Patents etc. (From 1st July 2018 onwards)

1. Resource Person in the Online Two-Week Refresher Course on “Re-Defining Ethics in the Era of Digitization: From Theory to Practice” from 22nd March to 05th April, 2022. *Delivered a recorded session of 1:30 hours on 'Digitalization of natural sciences and the need of ethics'. TLC Ramanujan College under the aegis of the Ministry of HRD, Government of India*


Signature of Faculty Member