



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



Title	<b>PROFESSOR</b>	First Name	<b>JASLEEN KAUR</b>	Last Name	<b>KALIA</b>	Photograph
Designation	<b>PROFESSOR</b>					
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Web-Page						
<b>Educational Qualifications</b>						
Degree	Institution				Year	
B.Sc (Hons) BOTANY	<b>UNIVERSITY OF DELHI</b>				<b>1994</b>	
M.Sc BOTANY	<b>UNIVERSITY OF DELHI</b>				<b>1996</b>	
PhD	<b>UNIVERSITY OF DELHI</b>				<b>2000</b>	
<b>Career Profile</b>						
<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>						
<b>Administrative Assignments (From 1<sup>st</sup> July 2018 onwards)</b>						
<ol style="list-style-type: none"> <li>1. Admission Committee Convener (Botany Hons) (2021-2022);</li> <li>2. Convener Academic Committee (Botany) (2013-2014; 2020-2021, 2023-24)</li> <li>3. Convener (Botany) Timetable committee (2013-2021, 2022-2023, 2023-24); Co-Convener Timetable (Botany) (2021-2022)</li> <li>4. Deputy Superintendent Practical Examinations (Botany) (2013 – 2014; 2021-22)</li> <li>5. Deputy Superintendent (OBE) (Aug 2020; Nov-Dec 2021; March 2022)</li> <li>6. Member Environmental Club (2017-2022)</li> <li>7. Member College Function Organising Committee (2021-22, 2022-23, 2023-24)</li> <li>8. Convener Anti-Ragging Committee (2019-2022), Member (2011-2018)</li> <li>9. Convener Botanical Society (2009-2013; 2018-2020), Co-Convener (2010-2011)</li> <li>10. Member Smoke-free campus committee (2017-2024)</li> </ol>						

<ol style="list-style-type: none"> <li>11. Convener Botany Screening Committee for the permanent post (2019)</li> <li>12. Teacher Convener DSC Rotary Club (Since 2019)</li> <li>13. Member NAAC Steering Committee (2021-22)</li> <li>14. NAAC visit preparation committees: Convener Signage's Committee (March 2022- till date)</li> <li>15. Member Committee for bids for Housekeeping and Security services for the college received through GeM portal (Since March 2022)</li> <li>16. 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)</li> <li>17. Convener Stage Decoration Committee (Annual Day on 28th April 2022)</li> <li>18. Nodal Officer for the Examination (Physical Mode) May / June 2022 till date- Dyal Singh College</li> <li>19. Coordinator Timetable Committee (2022-23)</li> <li>20. NAAC Committee Nominated Member (Oct 2022-till date)</li> <li>21. Teacher Coordinator for G20 Program (Feb 21, 2023-)</li> <li>22. Convener Stage Decoration Committee (Annual Day on 27th April 2023)</li> <li>23. Teacher-incharge Department of Botany (May 1, 2023- April 30, 2024)</li> <li>24. Convener Science - Academic Committee (2023-24)</li> <li>25. Convener Stage Decoration Committee (Orientation Day on 14th August 2023)</li> <li>26. Member, PLAGIARISM CHECKING COMMITTEE (August 23, 2023-till date)</li> </ol>
<b>Areas of Interest / Specialization</b>
ECOLOGY AND ENVIRONMENT
<b>Subjects Taught</b>
BOTANY
<b>Research Guidance</b>
<ol style="list-style-type: none"> <li>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</li> <li>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</li> </ol>
<b>Publications Profile</b>
(Mention total no. and details from 1 <sup>st</sup> July 2018 onwards only) TOTAL =15 <ol style="list-style-type: none"> <li>1. <b>Jasleen Kaur</b>, 2018 Controlling Pest: Major issue with Organic Farming in Brinjal. <i>J. Cont. Res. Communi.</i>, 1(1), 57-62. eTSSN: 2582-3752</li> <li>2. <b>Jasleen Kaur</b> 2019. Ecological responses of <i>Zizyphus nummularia</i> to biotic opening up of the forested cover. <i>RJSET</i> 9 (2) pg 62-73. ISSN 2454-3195 (O).</li> <li>3. Charu Dogra Rawat Helianthous Verma, Sonika Phian, Priya Lakra, <b>Jasleen Kaur</b>, Sanjukta Subudhi, Rup Lal 2020 Human Gut Microbiota and Mental Health: Advancement and Challenges in Microbe-based Therapeutic Intervention. <i>Indian Journal of Microbiology</i>. Pages15 ISSN 0973-7715 (O) 0046-8991 (Print) IF 2.461</li> <li>4. Navneet Manav and <b>Jasleen Kaur</b> 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</li> <li>5. Sonika Phian, Shilpi Nagar, <b>Jasleen Kaur</b>, Charu Dogra Rawat 2022. Emerging Issues and Challenges for Microbe Assisted Remediation in book entitled "Microbes and Microbial Biotechnology for Green Remediation" Elsevier. <b>ISBN: 9780323904520</b></li> <li>6. Pandit, M.A.; Kumar, J.; Gulati, S.; Bhandari, N.; Mehta, P.; Katyal, R.; Rawat, C.D.; Mishra, V.; <b>Kaur, Jasleen</b>. Major Biological Control Strategies for Plant Pathogens. <i>Pathogens</i> (ISSN 2076-0817) 2022, 11, 273. <a href="https://doi.org/10.3390/pathogens11020273">https:// doi.org/10.3390/pathogens11020273</a>. IF 3.018</li> </ol>

7. 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>
8. 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
9. Gulati, S.; Chitralekha, 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
10. 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>
11. 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
12. 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
13. Bhandari N, Mehta P, **Kaur Jasleen**, Chitralekha 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.
14. 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
15. 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 1<sup>st</sup> July 2018 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

#### **Poster/Paper Presentations**

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. Research Poster entitled Biosafety assessment of Genetic Modification. National Science day (February 28, 2018) , jointly organized by Indian Academy of Science, Bangalore and Indian National Science Academy, Delhi at INSA Delhi, India.
3. 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.
4. 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.
5. 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.
6. Oral Presentation on "Impending threat to plants that heal". In National Conference on Medicinal Plants: Frontier Areas of Research and Development held on 16<sup>th</sup> & 17<sup>th</sup> 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

#### **Research Projects (Major Grants/Research Collaboration) (From 1<sup>st</sup> July 2018 onwards)**

#### **Awards and Distinctions (From 1<sup>st</sup> July 2018 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

<p>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 16<sup>th</sup> &amp; 17<sup>th</sup> 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</p>
<p><b>Association With Professional Bodies</b></p>
<p>1. Life member of Delhi University Botanical Society (DUBS)  2. Life member of Society of Ecological Research and Natural Resource Management (SERNRM)  3. Life member of Indian Network for Soil Contamination Research (INSCR)</p>
<p><b>Other Activities like MOOCs/ Patents etc. (From 1<sup>st</sup> July 2018 onwards)</b></p>
<p>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. <i>Delivered a recorded session of 1:30 hours on 'Digitalization of natural sciences and the need of ethics'.</i> TLC Ramanujan College under the aegis of the Ministry of HRD, Government of India</p>

  
Signature of Faculty Member