




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



Title	DR	First Name	ROMA	Last Name	KATYAL	Photograph
Designation	ASSOCIATE PROFESSOR					
Address	C- 257 Sheikh Sarai Phase I New Delhi- 110017					
Phone No Office	011-24367819					
Residence	011-26016256					
Mobile	9818686692					
Email	<a href="mailto:romakatyal@dsc.du.ac.in">romakatyal@dsc.du.ac.in</a> <a href="mailto:romakatyal@gmail.com">romakatyal@gmail.com</a>					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D	University of Delhi				1993	
M.Sc	University of Delhi				1986	
B.Sc.	Miranda House, University of Delhi				1984	
Career Profile						
<p>Associate Professor, Department of Botany, Dyal Sing college since 2003 Assistant professor, Department of Botany, Dyal Singh College from 1997 to 2003</p> <p>Lecturer (on ad hoc basis), Department of Botany, Dyal Singh college from 1994 to 1997 Senior Research Associate at Jawaharlal University, New Delhi from 1993 to 1994</p> <p>Dr Roma Katyal qualified National Eligibility Test (NET) and was a recipient of Junior and Senior Research from Council of Scientific and Industrial Research (CSIR). She did post-doctoral research from Jawaharlal Nehru University, New Delhi and has published research papers in reputed international and national journals.</p> <p>She joined Dyal Singh College in 1994 and since then, has been teaching courses on Plant Physiology, Plant Metabolism, and Plant Systematics. She co-investigated and guided students in an innovation project on ‘A study on the effect of soil pollutant interaction on physicochemical and geotechnical properties of soils of different nature” sanctioned by the University of Delhi. She has participated in numerous workshops, conferences, seminars, webinars, symposia and faculty development programmes. She has been associated with under graduate curriculum revision committees. She was a member of screening committee for appointment of permanent teachers in the Department of Botany.</p>						

**Administrative Assignments (From 1<sup>st</sup> July 2017 onwards)**

1. Member, screening committee to scrutinize applications for the post of Assistant Professor in the Department of Botany, 2022.
2. Co-Convener, Time-table committee, Department of Botany, 2022-2023
3. Teacher in- charge of Department of Botany (1 May 2013-30 April 2014; 1 May 2021-30 April 2022)
4. Convener, garden committee, Department of Botany, Dyal Singh College 2022-2023
5. Coordinator of remedial classes organizing committee. 2022-2023.
6. Convener Admission committee B.Sc Life Science Convener 2021-2022
7. Convener Admission committee for B.Sc (Hons.) Botany of Department of Botany, 2016-2017; 2019-2020
8. Convener Academics committee of Department of Botany, 2021-2022
9. Convener Purchase and instrument maintenance committee of Department of Botany, 2021-2022;
10. Member Purchase and instrument maintenance committee of Department of Botany, July 2020-June 2021
11. Member Grievance and discipline committee of Department of Botany-2022-2023, 2021-2022; July 2020-June 2021
12. Member Proctorial Board, Dyal Singh College, 2021-2022
13. NAAC steering committee Dyal Singh College, member 2021-2022
14. NAAC visit preparation committee: Member Garden committee (March 2022- August 2022)
15. Member College garden committee Dyal Singh College, July 2020- June 2021; July 2021-June 2022
16. Deputy Superintendent Theory Examination Dyal Singh College January 2007; January 2008; January 2009 April 2009; April 2010; November 2012; April 2013; May 2014; May 2015; Dec 2015; May 2016; November 2018; May 2019; OBE Deputy Superintendent Dyal Singh College Nov-Dec 2021, November 2022; August 2022; May 2022; Deputy Superintendent Dyal Singh College March 2023;
17. OBE Deputy Superintendent Dyal Singh College Nov-Dec 2021; May 2022-Aug 2020
18. Superintendent Practical Examination 2008; 2019-2020
19. Prize distribution committee, College annual day, 28 April 2022
20. Convener Museum and Garden committee, Department of Botany, Dyal Singh College , convener, 2018-2019
21. Member Anti-ragging committee Dyal Singh College 2017 -2018, 2022-2023
22. Convener Library Committee, Department of Botany, Dyal Singh College 2017 -2018

23. Teacher mentor B.Sc (Hons.)V/VI Semester 2018-2019; 2019-2020, 2021-2022

24. Teacher mentor B.Sc (Life Sciences) IV Semester 2019-2020

25. Member Internal Assessment moderation committee 2020-2021;2021-2022, 2022-2023

Areas of Interest / Specialization
Biochemistry and Molecular Biology
Subjects Taught
Plant Metabolism, Plant Physiology ,Plant Systematics
Research Guidance
Publications Profile (From 1 <sup>st</sup> July 2017 onwards)
<ol style="list-style-type: none"> <li>1. Neeru Bhandari, Poonam Mehta, Jasleen Kaur*, P. Chitraklekha, Saloni Gulati and Roma Katyal. Structure, development and histochemistry of embryo and endosperm in <i>Sesbania speciosa</i> Taub. Ex Engl. PLANT SCIENCE TODAY ISSN 2348-1900 (online) <a href="https://doi.org/10.14719/pst.1930">https://doi.org/10.14719/pst.1930</a>. Available online Version 1.0: 13 April 2023</li> <li>2. Rashmi Mathur, Isha Gunwal, P. Chitraklekha, Payal Mago, Saloni Gulati, and <b>Roma Katyal</b> Biodiversity conservation of plants: the role of ethnic and indigenous populations. Annals of Forest Research 2022. 65(1) 5613-5656</li> <li>3. P. Chitraklekha, Anita Rani, <b>Roma Katyal</b>, Rashmi Mathur, and Saloni Gulati <i>Cuscuta reflexa</i> Roxb. Parasitism: The development of Haustorium Phytomorphology, 2022 72(3&amp;4) 55-68</li> <li>4. Saloni Gulati, Anita Narang, Anupama Shukla, <b>Roma Katyal</b>, Rashmi Mathur, and Jasleen Kaur Arbuscular mycorrhizal fungi and host-plant relationship with respect to heavy metal remediation of soil KAVAKA 2022 58 (3) 61-74</li> <li>5. Gulati, S.; Chitraklekha, P.; Pandit, M.A.; Katyal, R.; Bhandari, N.; Mehta, P.; Rawat, C.D.; Kaur, S.; Kaur, J. Diversity, Succession and Seasonal Variation of Phylloplane Mycoflora of <i>Leucaena leucocephala</i> in Relation to Its Leaf Litter Decomposition. J. Fungi 2022, 8, 608.</li> <li>6. Pandit M.A, M., Kumar, J., Gulati,S., Bhandari, N., Mehta, P., Katyal, R., Dogra Rawat.C., Mishra, V., and Kaur, J. (2022) Major Biological Control Strategies for Plant Pathogens. Pathogens 2022, 11, 273.</li> <li>7. Pandit M.A, Gulati, S.; Bhandari, N; Tarkeshwar, Mehta, P.; Katyal, R, Rawat, C.D.; Kaur, j. Sustainable Management Strategies and Biological Control in Apple Orchards –Indian Perspective Plant Science Today 2022, 22(3) 443-453</li> <li>8. Wadhwa, N., Mathur, R., Asawa, K., Gaur, S., Agrahari, S., Katyal, R., (2021), Optimization studies of medium components for Protease production from <i>Pseudomonas thermaerum</i> GW1. Current trends in Biotechnology and Pharmacy, 15(6) 125-130.</li> </ol>

#### Conference Organization/ Presentations (From 1<sup>st</sup> July 2017 onwards)

1. Convener, National seminar on “Recent Trends in Life Sciences Entrepreneurship in the Era of G20”, April 15, 2023 organized by Department of Botany, Dyal Singh College.
2. Oral presentation on “Impact of Online Learning on Women in India” in the International Online Conference on “Emerging Trends in Higher Education” jointly organized by NPTC Group of Colleges & UK Awards, United Kingdom and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education from March 28-29, 2023.
3. Presented a paper on “NEP 2020: Towards Holistic Education” during the International Seminar on Technology for Environmental Sustainability, Socio-Economic Responsibility and Associated Entrepreneurial Opportunities in Society and Rural Environment organized by Sri Aurobindo College, University of Delhi held on March 16-17, 2023
4. Presented a paper on “Phytoremediation - an Innovative Green Clean-up Technology” during the National Conference on Advancement in Interdisciplinary Research (NCAIR-2022), Jointly organized by Amiruddaula Islamia Degree College, Lucknow, UP & Science Tech Institute, Lucknow, UP India held on July 29-31, 2022
5. Presented a paper on “Biodiversity Conservation: Contribution of indigenous communities “National Seminar on Vishwa Guru Bharat; Exploring the Glorious Past, Promising Present & the future Roadmap” Organised by Shaheed Rajguru College of Applied Sciences for Women, University of Delhi in association with ICSSR SHoDH & COL(DU) held on 23- 24 March 2022
6. Organised a webinar on “Gardening: Unearthing Creativity and Passion” organised by Garden committee, Dyal Singh College on 12 February 2022
7. Member organising committee of National seminar on “Intellectual Property Rights: Copyright and Biopiracy Issues” organised by Department of Botany, Dyal Singh College University of Delhi on 17 September 2021
8. Member organising committee in National symposium on Bioimaging organised by the Department of Botany, Dyal Singh College, University of Delhi on 19 February 2020
9. Served as a Co-mentor for B.Sc (hons.) Botany And B.Sc Life Sciences students during summer internship held from 1 July- 15 July 2019 in the area of Microbiology organised by the Department of Botany, Dyal Singh College, University of Delhi under the aegis of IQAC
10. Served as a member organising committee in one day workshop on “Recent Trends in Plant Systematics and Future Prospects” organised by the Department of Botany, Dyal Singh College, University of Delhi on 12 March 2019

#### Research Projects (Major Grants/Research Collaboration) (From 1<sup>st</sup> July 2017 onwards)

#### Awards and Distinctions (From 1<sup>st</sup> July 2017 onwards)

#### Association With Professional Bodies

1. Life member of Delhi University Botanical Society (DUBS)
2. Life member of Indian Network for Soil Contamination Research (INSCR)

Other Activities like MOOCs/ Patents etc. (From 1<sup>st</sup> July 2017 onwards)

Was a member of committees formed for following curricula revision:

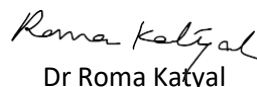
UGCF (NEP2022) B.Sc (H) Botany -Plant Metabolism (Discipline Specific Core), 2022

UGCF (NEP2022) B.Sc (H) Botany -Plant Physiology (Discipline Specific Core), 2022

UGCF (NEP2022) SEC Understanding molecules of life, 2022

Preparation of Guidelines for theory and practicals of paper Plant Metabolism LOCF B.Sc (H) Botany VI Semester 2021

CBCS B.Sc.(H) Botany-Plant Metabolism 2019



Dr Roma Katyal

Signature of Faculty Member