

CURRICULUM VITAE

Dr. Aradhana Yadav

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EXPERIENCE SUMMARY

- Well experienced in teaching the subject in clear and logical sequence. Ability to make the material accessible, intelligible, and meaningful, able to cover the subject matter adequately in the class.
- Well experienced to pace the lecture appropriately. Ability to include the material in the class which is not readily accessible in textbooks.
- Ability to illustrate the practical applications of the theory presented in the class.
- Ability to show enthusiasm for the subject and generate curiosity about the lecture material early in the lecture.
- Well qualified and technically proficient with five plus years of laboratory experience and excellent academic qualifications.
- Substantial experience in sophisticated research techniques and technologies.
- Expertise in lab and field research, experimental design, data collection/analysis, trouble shooting and project management.
- Demonstrated ability to efficiently prioritize a broad range of responsibilities (like research, monitoring budgets and expenditures, maintaining lab tools, preparing report etc.) in order to achieve maximum level of operating effectiveness.
- Extensive experience working with cross-functional scientific and research teams.
- Directed many undergraduate and postgraduate trainees in their experiments and thesis compilation.

PERSONAL DETAILS:

Gender:	Female
Nationality:	Indian
Date of Birth :	18 May 1980
Linguistic Proficiency:	English, Hindi
Correspondence address:	House No. 134, Sarita Vihar, New Delhi, 110076
Present Status:	Assistant Professor, Department of Botany, Daulat Ram College, University of Delhi

1. ACADEMIC QUALIFICATION:

Educational Qualification

Degree	Institution	Year	% Marks
High School	Jeevan Marg Sophia Secondary School, Deoria	1996	76%
Intermediate	Kasturba Government Girls Inter College, Deoria	1998	68.4%
Bachelor of Science (B.Sc.)	Ewing Christian college, Allahabad University	2002	65%
Master of Science (M.Sc.)	Deen Dyal Upadhyaya College, Gorakhpur University	2004	68.3%
Doctor of Philosophy (Ph.D), Botany	Jamia Hamdard, Delhi	2013	

Full Time Research Experience

Designation	Institute	Time period	Nature of Appointment
Junior Research fellow	Department of Genetics, South Campus, University of Delhi	March to December, 2016	Full time research
Ph.D (Botany)	Department of Botany, Jamia Hamdard, Delhi	2007-2013	Full time Research

Ph.D in (BOTANY)

Jamia Hamdard University, New Delhi

Title of thesis: “**Characterization and Evaluation of Controversial Herbal Drugs used in Traditional systems of Medicine**”.

Achievements:

1. RAPD amplification of different accessions of *Bacopa monnieri*, *Swertia chirayita* and *Pluchea lanceolata*.
2. Selection of RAPD amplicon in the authenticated samples and its sequencing.
3. Development of RAPD-based SCAR marker for the authentication of above medicinal plants.
4. In-house designed primers tested for authenticated testing.
5. Testing of SCAR marker using commercial crude drug and multicomponent drug samples.

2. AWARDS AND RECOGNITIONS:

- **CSIR-UGC NET -2005 (Life Sciences)**

- GATE - 2005 (Life Sciences)
- CSIR-JRF- 2008 (Life Sciences)

3. PROJECT UNDERTAKEN:

1. Department of Genetics, South Campus, University of Delhi

Mar 2006 - Jun 2006

Title of the Project: “Biocontrol property of *Pseudomonas fluorescens*”-DBT sponsored

Study on Fusarium wilt disease of *Lycopersicon esculentum*, treatment of seedlings with different concentration of *Pseudomonas fluorescens* and combination of antagonists to control the wilting disease of plants.

2. Wealth of India Division: NISCAIR, New Delhi

Jun 2008 - Apr 2009

Research Internship in the Project, The Wealth of India- an information resources on Plants, animals and minerals. **CSIR-NISCAIR.**

Abstract collection, editing of articles and monographs, extensive reading of reviews and research papers, study of the active ingredients and economic importance of plants, compilation and arrangement of graphs and tables etc.

3. Navdhara Project: Daulat Ram College

April 2025-2026

Project entitled- “Wings”: Women’s initiative for nutrition, reproductive growth and sanitation, Designation- Principal Investigator

The project was launched to address malnutrition, poor reproductive health, and inadequate sanitation among adolescent girls. University life represents a critical period for establishing healthy dietary habits and attitudes; students develop poor eating practices due to multiple socio-economic and environmental factors. Addressing malnutrition in adolescent girls and breaking the stigma, harassment, and social exclusion experienced by girls to bring significant long-term benefits, as they assume multiple roles including income generation and ensuring household nutrition and health.

Aims and Objectives of the Project:

1. Knowledge generation and learning about Nutrition, Reproductive health, menstrual hygiene.
2. Gender equality
3. Community outreach program- FLOW TO GROW
4. Learning about reproductive health, disorders and its treatment
5. Capacity building- Training and technical assistance to young girls
6. To achieve Sustainable Development Goals (SDGs)

4. FULL TIME TEACHING EXPERIENCE

S.No	Designation	Institution	Time Period	Nature of Appointment
1.	Assistant Professor	Deen Dyal Upadhyaya College, DU	22-01-13 to 05-05-15	Adhoc
2.	Assistant Professor	Daulat Ram College, DU	20-07-2015 to 20-01-2023	Adhoc
3.	Assistant Professor	Daulat Ram College, DU	20-01-2023 onwards	Permanent
	Total Experience		13 Years	

5. SOCIETY/COMMITTEE

Society/Committee	Member	Status	Year
Fine Arts society	Member	completed	2016-2017
Spic Macay	Member	completed	2018-2019
Member of Sports committee	Committee member	completed	2019-2020
Garden Committee	Committee member	completed	2015-2024
Eco-club	Member	completed	2021-2024
Admission Committee	Core committee (Botany)	completed	2022-2023
Admission Committee	Core committee (Life Sciences)	completed	2022-2023
Fine Arts society	Member	completed	2023-2024
GENERIC ELECTIVE	Co-ordinator	completed	2023-2024
DISCIPLINE SPECIFIC ELECTIVE	Co-ordinator	completed	2023-2024
GENERIC ELECTIVE	Co-ordinator	completed	2024-2025

DISCIPLINE SPECIFIC ELECTIVE	Co-ordinator	completed	2024-2025
GENERIC ELECTIVE	Co-ordinator	completed	2025-2026
Western Dance Society	Member	Completed	2025-2026
Fashion society	Convenor	completed	2025-2026

6. AREA OF INTEREST

Biodiversity (Archegoniatae), Anatomy of Angiosperms, Plant anatomy and Embryology, Reproductive Biology of angiosperms, Economic Botany and Biotechnology.

7. PAPER UNDERTAKEN

S.No	Course	Subject Taught	Semester	Year
1	B.Sc (Hons) Botany	Anatomy of angiosperms, Economic Botany, Mycology and Phycology	III, VI	2015-2022
2	B.Sc (Hons) Botany	Plant metabolism, Reproductive Biology of Angiosperms	II, IV	2015-2022
3	B.Sc Life sciences	Biodiversity, Plant Anatomy and Embryology, Generic Elective (Biodiversity)	I, III	2015-2021
4	B.Sc Life sciences	Plant Ecology and Taxonomy, Plant physiology and Metabolism, Economic Botany and Biotechnology	II, IV	2015-2022

8. DETAILS OF WORKSHOP/ TECHNOLOGY PROGRAMMES / FACULTY DEVELOPMENT PROGRAMME ATTENDED.

S.No.	Details	Place	Period		Year
			From	To	
1	FDP on “Industrial and Environmental Microbiology”	Department of Botany, Daulat Ram College, DU	19 March	20 March	2018

2	Online Faculty Empowerment Programme on “Application of ICT tools used in higher Education”	Motilal Nehru College, DU	11 June	12 June	2020
3	E-FDP on “Empowering Teaching–Learning Process using Google Classroom and other ICT Tools: a comprehensive practical approach”	Department of Commerce, Daulat Ram College, DU	21 July	23 July	2020
4	Workshop cum Training Programme on Bioinformatics and Computational Tools for Botanical studies	Department of Commerce, Daulat Ram College, DU	12 Feb	13 Feb	2020
5	Lecture on “Pollinators, Pollinators Dependent Plants and Conservation Values”	Workshop organised by Department of Botany, DRC	4 Aug		2021
6	Learning Reproductive Biology with fluorescence microscopy	Workshop organised by Department of Botany, DRC	25 Aug	26 Aug,	2021
7	Lecture series on “Redefining gardening from hobby to enterprise: series1-4	Workshop organised by Department of botany, DRC	21 Oct, 11 Nov,	18 Nov, 25 Nov	2021
8	FDP-Wildlife Conservation and Management	Mahatma Hansraj Faculty Development Programme	4 th Oct	9 th Oct	2021
9	Skill Development Programme” Think Smart Think Green”	Dhara-Eco Club, Daulat Ram College	9 th Oct	14 th Oct	2021
10	National workshop-Raising Awareness on Urban Air Quality, Climate Change, Health and e-resilience Ministry of Science and Technology (DST), Government of India	Department of Environmental Studies, University of Delhi, Delhi & Eco-Club (Dhara)	25 June		2022
11	In-house skill development Programme “Enhancing Learning through ICT Tools under IQAC	Daulat Ram College, DU	23 Aug	24 Aug	2023
12	One week online faculty Development Programme on Unlocking Digital Pedagogies: ICT in Academics	Mahatma Hansraj Faculty Development centre	26 Sep	1 Oct	2023

13	A Hands on training Programme on Aeroponics, Hydroponics, Landscaping and Vertical Gardening in Dept. of Botany, Zakir Hussain College, DU	Zakir Hussain College	8 Nov	9 Nov	2024
14	National Workshop on Urban Heat Island & Spreading Awareness on Emerging Challenges of Air Pollution and Climate Change on Human Health in Urban Ecosystem ” organised by Organized by: Environmental Pollution Laboratory, Department of Environmental Studies, University of Delhi, Delhi, India	Delhi University Botanical Society & Department of Botany, University of Delhi.	5Aug	6 Aug	2024
15	In-house skill development Programme “Enhancing Learning through ICT Tools under IQAC	Daulat Ram College, DU	11 Aug	12 Aug	2025
16	Insights into Plant Reproductive Ecology, one week Faculty Development Programme (Hybrid mode)	MH-MMTC in collaboration with Hansraj College, DU	1 Sep	8 Sep	2025
17	Embarking on NEP “Research methodology for scientific excellence” Two week Online refresher course with Grade A	GAD-MMTC in collaboration with SGTB Khalsa College, DU	24 June	7 July	2025
18	“Embracing Sustainability”: Upskilling for better future Student Development Programme- Course co-ordinator	Daulat Ram College	17 Feb	22 Feb	2025
19	“Medicinal Plants” Healing through Nature- Resource person in Student Development Programme	Daulat Ram College	17 Feb		2025
20	Conducted an outreach Programme “Flow to Grow- Empowering women through health education, hygiene	Community	30 Mar		2025

	awareness and resource distribution organized under WINGS, A Navdhara Project				
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9. BOOKS PUBLISHED

S.No	Name of Book.	Publisher	Date of publishing	Authored/Edited	ISBN No
1.	Wealth of India- a resource information, Second supplement series vol 3: (Pi-Z)	Wealth of India Division, CSIR-NISCAIR	2009	Editorial committee and Scientific group, Wealth of India Division	ISBN: 81-7236-322-2

10. ARTICLES PUBLISHED

S.No	Title of Article	Date of publishing	Books/ Newsletter	
1.	Article: “RAPD-based sequence Characterized Amplified Region Marker for authentication of Medicinal plants”	(4-5 Feb, 2013)	National Conference on Advances in Environmental Sciences and Plant Biotechnology, NESA & Jamia Hamdard	
2.	Article: Authentication of Herbal Drugs used in Traditional Systems of Medicine in Newsletter, Contemporary Plant Sciences.	(2014-2015)	Botanical society, (Newsletter), Deen Dyal Upadhyaya College, DU	
3.	Article: Conservation of Some Threatened Ethno-Medicinal Plants of India by Micropropagation.	(28 sept-1 Oct, 2015)	(Workshop manual), Conservation of Medicinal Plants by Micropropagation	
4.	Article: “Adulteration in Clove”.	(3 July-14 July, 2017)	(Workshop manual), Skill House Development Workshop on “Food Adulteration and Security”	
5.	Article: Environment Impacts leading to Extinction of <i>Swertia Chirayita</i> -An Endangered Himalayan Plant	(2017-2018)	Newsletter <i>Liana</i> , (Botanical Society) Department of Botany, DRC	

11. CONFERENCE ATTENDED

S.No	Type of Event	Name of Event	Venue of conference	Date of conference	Attended only	Paper presented
1.	National Conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspective	National conference	Deen Dyal Upadhyaya College, DU	(02-03 March, 2015)	Attended	
2.	“Creating Courses Using Open Education Resources”	Workshop	Deen Dyal Upadhyaya College, DU	(17 March, 2015)	Attended	
3.	“Conservation of Medicinal Plants by Micropropagation”	Workshop	Dept. of Botany, Daulat ram College	(2015)	Attended	
4.	International Conference on Public Health: Issues, Challenges, Oppurtunities, Prevention, Awareness	International Conference	Daulat Ram college, DU	(15-16 January, 2016)	Attended	
5.	“Biological Tools in Biotechnology” under Star College Project conducted by Department of Botany,	Workshop	Dept. of Botany, DRC	(28-29 March, 2016)	Attended	
6.	“Food adulteration and Security”,	In-house skill development Programme	Dept. of Botany, DRC	(3 July-14 July,	Attended	
7.	Environment and Sustainable Development- New Perspectives	Symposium	Dept. of Botany, DRC	(14 January, 2019)	Attended	
8.	Environment and Human Health	International conference	NESA & Dept. of Botany, Jamia Hamdard	28-29 Nov, 2012)	Attended	Paper Presentation
9.	“Plant Biotechnology: Advances, Impact and Relevance”	National conference	Dept. of Botany, Aligarh Muslim University	(20 march, 2010)	Attended	

10.	“Recent Trends of Research in Medicinal Botany”	National seminar	Dept. of Botany, Ramjas College	(4-5 Oct, 2019)	Attended	
11	“Medicinal Plants Research in India”	National seminar	UGC-SAP DRS-sponsored, Department of Botany, Jamia Hamdard,	(16-17 Mar, 2012)	Attended	Paper Presentation
12	Environment Management & Biodiversity Conservation”	National Seminar	Government Lohia P.G College, Churu	(6-7 Oct, 2012)	Attended	Paper Presentation
13.	Biodiversity and Public Health	Webinar	Eco-Club Shivaji College, DU	19 May, 2020	Attended	
14.	Plant Biology: A journey from Earth to Space	Webinar	Dept. of Botany, Ramjas College, Du	22-23 May, 2020	Attended	
15.	Biodiversity and Man	Webinar	Dept. of Botany, Dyal Singh college, DU	5 Jne, 2020	Attended	
16	National Webinar on “Entrepreneurship Aspects on Biodiversity Conservation and Indegenous healing Practices of North Eat India	Webinar	ISBD Centre, Kalindi College, University of Delhi	2 June, 2020	Attended	
17	International Webinar on “Prevalent crisis triggered by the Covid 19, pandemic and its Appraisal”	Webinar	Bhaskaracharya College of Applied Sciences (University of Delhi	18 May, 2020 to 19 May, 2020	Attended	
18	National Webinar on “BIODIVERSITY AND CONSERVATION”	Webinar	Eco-Club, ,Shivaji College, DU	8 June, 2020	Attended	
19	National Seminar on” Recent Trends of Research in Medicinal Botany	National Seminar	Department of Botany, Ramjas College, DU	4 Oct, 2019 to 5 Oct, 2019	Attended	
20	ICGPMP-2025, 1rst International conference on Global perspectives of medicinal Plants: Traditional system of Medicine to Nano-medicine	International Conference	Ramjas College, University of Delhi	20 th Mar to 21rst Mar 2025	Attended	Poster Presentation

12. RESOURCE PERSON

S.No	Type of Event	Name/Title of the Event	Venue	Date of Event	Member organizing committee/resource Person
1.	In-house skill development Programme under IQAC	“Disease prevention by Natural remedies and Identification of active ingredients	Online mode, Dept. of Botany & Chemistry	20 Dec-27 Dec, 2021	Resource Person
2.	In-house Skill Development Programme “Think Smart Think Green” under IQAC	“Building the GREEN MICROCOSM”	Online mode, Eco-club committee	9 Oct-14 Oct, 2021	Resource Person
3	“Food adulteration and Security”, In-house skill development Programme	Adulteration in Clove	Dept. of Botany, DRC	3 July-14 July, 2017	Resource person
4.	SDP Under IQAC- Enhancing learning through ICT Tools	Google meet	Dept. of Botany, DRC	26 Nov-27 Nov, 2024	Resource person
5	SDP “Embracing Sustainability”- Upskilling for better future	(Hybrid mode)	Daulat Ram College	17 Feb to 22 nd Feb, 2025	Coordinator and Resource person
6	Workshop, two credits skill-based course for BSc. (Life Sciences), IV Yr students	(Hybrid mode)	Department of Botany, DRC	3 rd Nov to 12 th, Nov 2025	Resource person

7.	Annual Botanical Fest “Vasundhara” 2024		Department of Botany	24 th April, 2024	Organizing Team
8.	INSPIRE SCIENCE CAMP	Educational Science Camp, DBT	INSPIRE SCIENCE CAMP, Daulat Ram College	17 Dec, 2018 to 21 Dec, 2018	Resource person cum organizing Team

13. INSTRUMENTS HANDLED

Thermal cycler, UV-Vis spectrophotometer, Ultracentrifuge, Gel Electrophoresis, Colorimeter, Autoclave, Laminar Flow

14. PAPERS PUBLISHED (NATIONAL/INTERNATIONAL JOURNALS)

S.No	Title of the paper,	Year	Journal Name	Vol No./Pg no. /ISSN No.
1.	Development of Sequence Characterized Amplified Region (SCAR) Marker for the authentication of <i>Bacopa monnieri</i> (L.) Wettst.	2012	European Journal of Medicinal plants	2(3), 186-198. 2231-0894
2.	Development of Randomly Amplified Polymorphic DNA- Sequence Characterized Amplified Region Marker for the authentication of <i>Swertia chirayita</i> , an Endangered Himalayan Plant.	2012	Journal of Plant Molecular Biology and Biotechnology	3(1), 27-34, 2446-0302
3.	Quantitative determination of swertiamarin in <i>Swertia chirayita</i> by HPTLC.	2013	International Journal of Engineering Research and General Science	2 (6), 89-92, 2091-2730
4.	Conservation of Potent Anti-Cancerous Medicinal Plants of India by Micropropagation-A review.	2016	International journal of Biotechnology and Biomedical sciences;	53-56. 2454-
5.	Exploring the impact of mycorrhizae on phytochemical and secondary metabolites in medicinal plants	2026	Medicinal Plants	(18): 32-46 doi : 10.5958/0975-6892.2026.00006.2
6.	In vitro development of gametophyte and sporophyte in the epiphytic fern <i>Phlebodium aureum</i> (Polypodiaceae)	2026	Lilloa	63 (1): 213-226

15. CHAPTERS IN JOURNALS/ BOOKS

S.No.	Topic of Article	Name of the journal	Authors	ISBN No.
1	Bryophytes: Why they are Important. (2023).	<i>Lianas</i> , annual journal of Department of Botany, DRC	Pratibha Kumari, Aradhana Yadav and Meenam Bhatia	978-93-92603-05-1
2	Ethnobotanical Studies and Traditional Knowledge Plants. (2023)	<i>Lianas</i> , Department of Botany, DRC	Aradhana Yadav , Pratibha Kumari and Meenam Bhatia	978-93-92603-05-1
3	“Exploring the Morphogenetic Diversity in fern gametophytes and their potential in Plant Science Research (2023)	<i>Lianas</i> , Department of Botany, DRC	Meenam Bhatia, Pratibha Kumari and Aradhana Yadav	978-93-92603-05-1
4	Article-Bio Composting and Manuring: A way towards sustainable agriculture	<i>Lianas</i> , Department of Botany, DRC	Pratibha Kumari, Meenam Bhatia and Aradhana Yadav	978-93-92603-05-1
5	<i>Centella asiatica</i> : A magical herb with multipurpose benefits	Biodiversity conservation, environment and sustainability <i>Lianas</i> , Department of Botany, DRC	Priyanshi Sharma, Juhi Jha and Aradhana Yadav	978-93-92603-05-1

16. ORAL/ PAPER PRESENTED

1. “Development of RAPD-based SCAR marker for authentication of *Bacopa monnieri* and *Swertia chirayita*”, National Seminar on Environment Management & Biodiversity Conservation”, Govt. Lohia P.G College, Churu (6-7 Oct, 2012).
2. SCAR- A powerful authentication tool in Herbal industry; “International Conference on Polar Science and Technology”, NESI & Jamia Hamdard, New Delhi (4-6 Oct, 2009).
3. “National Seminar on “Plant Biotechnology: Advances, Impact and Relevance”, Aligarh Muslim University, Aligarh, U.P, (20 Mar, 2010).

17. BOTANICAL EXCURSION AND COLLECTION OF MATERIALS

Organized an educational trip for botany students as a part of the syllabus to enhance experiential learning, field observation skills and understanding of Himalayan flora, vegetation types, and ecological diversity.

- Place of Visit- Dehradun–Mussoorie–Chamba
- Date- 1st Oct to 4th Oct, 2024

18. SUPERVISOR/ CO-SUPERVISOR/ SUBJECT EXPERT

- Member of Selection committee- PGT Biology, The Bengali Senior Secondary school, Delhi (2025)
- Expert Guidance/ACR Member to 3 students, (IVth Yr Dissertation):
2 students from Zoology and one from Psychology, 2025-2026
- Expert committee Member cum External Examiner in Botany Department, Kirori Mal College for four students in KMC (IVth Yr Dissertation) 2025-2026
- Supervisor for two students in Botany Department, DRC (IV Yr dissertation)
- Co-supervisor for two students in Botany Department, DRC (IV Yr dissertation)

19. OTHER SKILLS

- Ability to work long and odd hours to meet the academic schedule.
- Extremely disciplined, professional, and punctual.
- Empathetic Leadership quality.
- Organizing the conferences, workshops and various activities in the College.