

CURRICULUM VITAE

Dr. Neetu Chaudhary

Assistant Professor
Department of Botany
Gargi College, University of Delhi
Sirifort Road
New Delhi- 110 049
E-mail: neetu.chaudhary@gargi.du.ac.in



Date of joining Gargi College as Assistant professor: 9th October, 2023

Teaching Experience

- Assistant Professor (Ad-hoc) Department of Botany, **Miranda House**, University of Delhi (6 years 9 months 3 days).
- Assistant Professor (Guest) Department of Botany, **Maitreyi College**, University of Delhi (3 months 14 days).
- Assistant Professor (Ad-hoc) Department of Botany, **Acharya Narendra Dev College**, University of Delhi (5 years 8 months 14 days).
- Academic Counsellor, Indira Gandhi National open university (IGNOU)

Papers Taught

Plant Anatomy, Reproductive Biology of Angiosperms, Cell Biology, Ecology, Molecular Biology, Industrial & Environmental Microbiology, Plant Metabolism, Plant Physiology, Bioinformatics

Academic Record

- Doctor of Philosophy in Plant Molecular Biology and Biotechnology (2003-2010), under the supervision of **Prof. Paramjit Khurana, Department of Plant Molecular Biology, University of Delhi South Campus**, New Delhi.
Title of thesis: ‘Analysis of Carotenoid and Tocochromanol Biosynthesis Genes in Cereals for Qualitative Enhancement’
- Master of Science in Botany (2013-15)
Kuvempu University (D.D.E), Karnataka.

Division: **First class**

- Master of Science in Biotechnology (1997-99)
Indian Institute of Technology Roorkee, Roorkee
Division: **First class with honors**
- Bachelor of Science (1994-97)
Ch. Charan Singh University, Meerut
Subjects: Zoology, Botany, Chemistry
Division: **First class with honors**

Additional Qualification

- Qualified joint **CSIR-UGC National Eligibility Test (NET) for JRF** held on 30.12.2001.
- Qualified joint **CSIR-UGC National Eligibility Test (NET) for JRF** held on 23.06.2002.
- Secured place among the **top 20% awardees in life sciences** in CSIR-UGC National Eligibility Test - 2002
- Qualified **GATE-1999 (percentile 83.42)**.
- Qualified **GATE-2002 (percentile 97.79)**.
- **Invited expert for vetting of syllabi for B.Sc. (Hons.) Biotechnology**, prepared under choice Based Credit system for University Grants Commission, New Delhi.

Scholarship/fellowship awarded

- Received **JRF** (2003-2005) and **SRF** (2005-2008) from CSIR, New Delhi.
- Received scholarship (1997-1999) from **DBT, Government of India**.

Additional Research Experience

- Pursued research work on 'Molecular genetics of nitrogen fixation by *Rhizobia*' under the supervision of Prof. G.S. Randhawa, Deptt. of Biosciences & Biotechnology, University of Roorkee, Roorkee (January, 2001- July, 2002).
- M.Sc. dissertation on 'Interproton distances from NOESY spectra of the complex of DNA hexamer d-(CGATCG)₂ with anticancerous drug Adriamycin' under the supervision of Prof. Ritu Barthwal, Deptt. of Biosciences & Biotechnology, University of Roorkee, Roorkee (January-May, 1999).
- Summer training on 'Cloning of human endothelin receptor-A from placenta' in Molecular and Structural Biology lab under the supervision of Dr. T.P. Singh, Deptt. of Biophysics, All India Institute of Medical Sciences, New Delhi (May-July, 1998).

Publications

- **Chaudhary N**, Khurana P (2009) Vitamin E biosynthesis genes in rice: Molecular characterization, expression profiling and comparative phylogenetic analysis. **Plant Science** 177: 479-491. ((ISSN No. 0168-9452)

- **Chaudhary N**, Nijhawan A, Khurana JP, Khurana P (2010) Carotenoid biosynthesis genes in rice: Structural analysis, genome-wide expression profiling and phylogenetic analysis. **Molecular Genetics & Genomics** 283: 13-33. (ISSN No. 1617-4615)
- **Chaudhary N** and Khurana P (2013) Cloning, functional characterization and transgenic manipulation of vitamin E biosynthesis genes of wheat. **Functional Plant Biology** 40 (11): 1129-1136. (ISSN No. 1445-4408)
- Subramanyan J, **Chaudhary N**, Chaudhary D, Pawar P, Kumari S (2023) Effects of Indoxacarb and Spinosad on Faba bean pollen. **International Journal for Innovative Research in Multidisciplinary Field** 9(1): 8-15. (ISSN(O): 2455-0620)
- Khurana P, **Chaudhary N** (2011) Genetic modification of cereals for biofortification and nutraceuticals. **Journal of Plant Biology** 37: 47-57. (ISSN No. 0972-3862)
- Khurana P, **Chaudhary N** (2009) Comparative and functional genomics for qualitative and quantitative improvement of Indian bread wheat. In 'Proceedings of International Conference on Food Security and Environmental Sustainability', IIT Kharagpur, December 17-19.
- **Dr. Neetu Chaudhary** (2014) Plant Specific organic molecules. FYUP Botany, University of Delhi, DC-I Paper 4, Fundamentals of Biochemistry (ISSN No.2349-154X).
- **Dr. Neetu Chaudhary** & Dr. Parul Agarwal (2014) Gene Cloning, Paper: Plant Biotechnology, Lesson Prepared under MHRD project 'National Mission on Education Through ICT' (ISSN No.2349-154X).
- **Dr Neetu Chaudhary** & Dr. Parul Agarwal (2014) Methods of Gene Transfer, Paper: Plant Biotechnology, Lesson Prepared under MHRD project 'National Mission on Education Through ICT' (ISSN No.2349-154X).
- Khurana P, Chhibbar A, Singla B, Chauhan H, **Chaudhary N**, Ratnu V (2008). Wheat Biotechnology: From genes to genomics. In: Arya, I.D. & Arya, S. (eds.) pp. 55-65. Utilization of Biotechnology in Plant Sciences. Forest Research Institute, Dehradun, India.
- **Chaudhary, N.** (2017) Use of pipettes and micropipettes. In: Manual 'Bridge Course on Basic Laboratory Techniques' for B. Sc. (Hons) Botany I year and B. Sc. Life science I year students organized by D.S. Kothari Centre for Research and Innovation in Science Education & Department of Botany, Miranda House, 05-08 September 2017, pp. 33-40.
- **Chaudhary, N.** (2017) Introduction of Biofertilizers. In: Manual Workshop on Biofertilizers for B. Sc. (Hons) Zoology II year students organized by D.S. Kothari Centre for Research and Innovation in Science Education & Department of Botany, Miranda House, 08 November 2017, pp.15-16.
- **Chaudhary N.** (2019) Bio-fertilizer Formulations. In: Manual of the Workshop on Biofertilizers for B.Sc. Life Science II Year students organized by DBT Star College Scheme & Department of Botany, Miranda House, 13 March 2019, pp. 6-9.
- **Chaudhary N.** (2019) Microtechniques. In: Lab Manual of the Bridge Course on Basic Laboratory Techniques for B.Sc. (Honours) Botany & B.Sc. Life Science I Year Students, Department of Botany & D. S. Kothari Central Interdisciplinary Research Facility, Miranda House, 05-08 August 2019 pp.47-53.

Mentoring of Student Projects

- Jointly supervised two students for the DSKC summer project "A comparative study of antioxidant content in naturally extracted and different brands of *Aloe vera* gel", June to July 2017.

- Jointly supervised two students for the DSKC summer project “A comparative study of natural and synthetic antacids”, June to July 2017.
- Jointly supervised two students for the DSKC summer project “A comparative study of antioxidant content in different brands of green tea”, June to July 2017.
- Jointly supervised three students for the DSKC summer project “Bt Cotton in India”, June to July 2020.
- Jointly supervised two students for the DSKC summer project “Management of Insect Pests of Pulse Crops in India”, June to July 2020.
- Jointly supervised four students for the DSKC online summer project “Programmed Cell Death in Plants”, June to July 2021.
- Jointly supervised two students for the DSKC online summer project “RUBISCO and PEP Carboxylase”, June to July 2021.
- Jointly supervised three students for the DBT project “Pollen as a system to study the effects of insecticides” January to March 2020.

Contribution as Resource Person

- Resource person in the ‘Bridge Course on Basic Laboratory Techniques’ for B. Sc. (Hons) Botany I year and B. Sc. Life science I year students organized by D.S. Kothari Centre for Research and Innovation in Science Education & Department of Botany, Miranda House, 05-08 September 2017.
- Resource person in the workshop on ‘Biofertilizers’ for B. Sc. (Hons) Zoology II year students organized by D.S. Kothari Centre for Research and Innovation in Science Education & Department of Botany, Miranda House, 08 November 2017.
- Resource Person in INSPIRE Internship program organized by D.S. Kothari Centre for Research and Innovation in Science Education & Department of Botany, Miranda House, University of Delhi, Delhi (December, 2017).
- Resource person in the workshop for Lab Staff ‘Laboratory Techniques and Instrumentation’ organized by Internal Quality Assurance Cell (IQAC), Miranda House, University of Delhi, Delhi, 31 January and 07 February 2018.
- Resource person in the ‘Bridge Course on Basic Laboratory Techniques’ for B.Sc. (Honours) Botany I Year students organized by DS Kothari Centre for Research and Innovation in Science Education and Department of Botany, Miranda House, 27 August 2018.
- Resource person in the ‘Bridge Course on Basic Laboratory Techniques’ for B.Sc. Life Science I Year students organized by DS Kothari Centre for Research and Innovation in Science Education and Department of Botany, Miranda House, 6-7 September 2018.
- Resource person in the ‘Bridge Course on Basic Laboratory Techniques’ for B.Sc. (Honours) Zoology I Year students organized by DS Kothari Centre for Research and Innovation in Science Education and Department of Botany, Miranda House, 02 November 2018.
- Resource person in the workshop on ‘Biofertilizers’ for B.Sc. Life Science II Year students organized by DBT Star College Scheme & Department of Botany, Miranda House, 13 March 2019.

- Resource person in the ‘Bridge Course on Basic Laboratory Techniques’ for B.Sc. (Honours) Botany I Year Students organized by Department of Botany & D. S. Kothari Central Interdisciplinary Research Facility, Miranda House, 05 August 2019.
- Resource person in the ‘Bridge Course on Basic Laboratory Techniques’ for B.Sc. Life Science I Year students organized by Department of Botany & D. S. Kothari Central Interdisciplinary Research Facility, Miranda House, 08 August 2019.
- Resource person in the workshop on ‘Biofertilizers’ for B.Sc. Life Science II Year students, organized by DBT Star College Scheme & Department of Botany, Miranda House, 28 August 2019.
- Resource person in the ‘Online Bridge Course’ for B.Sc. (H) Botany I Year and B.Sc. Life Science I Year (combined) organized by DS Kothari Centre for Research and Innovation in Science Education and Department of Botany, Miranda House, 24 and 26 February, and 02, 03 and 05 March 2022.
- Resource person in the ‘Online Bridge Course’ for B.Sc. (H) Botany II Year and B.Sc. Life Science II Year (combined) organized by DS Kothari Centre for Research and Innovation in Science Education and Department of Botany, Miranda House, 25 and 26 March, and 01, 02 and 09 April 2022.

Self Development

- Four-weeks Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" organized by Teaching Learning Centre, Ramanujan College, University of Delhi (Sponsored by MHRD, PMMMNMTT) from June 04 - July 01, 2020.
- One-week National Online Faculty Training Program "Pedagogical Training for Effective Online Teaching & Learning" organized by Deen Dayal Upadhyaya College, University of Delhi in association with K.T.H.M. College, Nashik, Maharashtra, from August 03-10, 2020.
- One-week (Online) interdisciplinary Faculty Development Program on "Environment Sustainability & Climate Change" organized by Department of Botany Miranda House and Mahatma Hansraj Faculty Development Centre, Hansraj College, April 4-8th, 2022.

Workshops/Symposia/Conferences organized

- Colloquium on ‘Hydrological Modelling for the Ecological Restoration of Loktak Lake, Northeast India’ by Ms. Khwairakpam Eliza, Guest Assistant Professor in Environmental Studies on 02 August 2018 as Staff advisor ‘Antheia’, the Botanical Society, Miranda House, University of Delhi.
- Colloquium on ‘Characterization of the Activity of the Anther-Specific Promoter of Rice’ by Dr. Reema Mishra, Assistant Professor, Gargi College on 09 August 2018 as Staff advisor ‘Antheia’, the Botanical Society, Miranda House, University of Delhi.
- Colloquium on ‘Small RNAs: Master Regulators (?) and Beyond’ by Dr. Sandip Das, Associate Professor, Department of Botany, University of Delhi on 30 August 2018 as Staff advisor ‘Antheia’, the Botanical Society, Miranda House, University of Delhi.
- Colloquium on ‘Innovation in Medicinal Plant Research and Human Welfare’ by Professor

Veena Agrawal, Department of Botany, University of Delhi on 06 September 2018 as Staff advisor 'Antheia', the Botanical Society, Miranda House, University of Delhi.

- Colloquium on 'Apomixis' by Professor Shailendra Goel, Department of Botany, University of Delhi, on 13 September 2018 as Staff advisor 'Antheia', the Botanical Society, Miranda House, University of Delhi.
- Colloquium on 'Updates on Commercial Transgenic Plants Resistant to Insects and Viruses' by Professor Sudeshna Mazumdar Leighton, Department of Botany, University of Delhi on 27 September 2018 as Staff advisor 'Antheia', the Botanical Society, Miranda House, University of Delhi.
- Colloquium on 'Sea Buckthorn: An Emerging Model Organism to Study Evolution of Dioecy' by Professor Rajesh Tandon, Department of Botany, University of Delhi on 11 October 2018 as staff advisor 'Antheia', the Botanical Society, Miranda House, University of Delhi.
- Colloquium on 'Female Gametophyte Development' by Professor Vishnu Bhat, Department of Botany, University of Delhi on 25 October 2018 as staff advisor 'Antheia', the Botanical Society, Miranda House, University of Delhi.
- Member, organizing committee for the workshop "Evolving face of microscopy: Magnifying lens to nanoscope" organized by Department of Botany, Miranda House, University of Delhi on 11-12 December 2019 under the aegis of DBT Star scheme in collaboration with Department of Botany, University of Delhi.
- Member, organizing committee, for the workshop "Herbarium Techniques" organized by Department of Botany, Miranda House, University of Delhi on 20 January 2020 under the aegis of DBT Star College Scheme.
- Member, organizing committee, for the workshop on "Air Pollution Mitigation: Species to Communities" organized by Department of Botany, Miranda House, University of Delhi on 17 February 2020 under the aegis of DBT Star College Scheme.
- Member, organizing committee for national webinar "Tinkering with Plant Genomes" by Prof. Akhilesh K. Tyagi, Department of Botany, Miranda House, University of Delhi, 06 July 2020.
- Member, organizing committee for webinar "Discover Your Calling..." under the lecture series Career Counselling: Way Forward, organized by the Internal Quality Assurance Cell (IQAC), Miranda House, in collaboration with 'Antheia', the Botanical Society of Miranda House, University of Delhi, 19 July 2021.
- Member, organizing committee for Career Counselling session organized by the Internal Quality Assurance Cell (IQAC), Miranda House, in collaboration with 'Antheia', the Botanical Society of Miranda House, University of Delhi, 05 February 2022.
- Mental health session as staff advisor 'Antheia', the Botanical Society of Miranda House, University of Delhi, 30 September 2022.
- Alumnae meet of Botany Department, Miranda House as staff advisor 'Antheia', the Botanical Society of Miranda House, University of Delhi, 9 September 2023.
- Career Counselling session as staff advisor 'Antheia', the Botanical Society of Miranda House, University of Delhi, 17 February 2023.

Administrative/Other Responsibilities

- Member of **Annual events management committee**, ANDC (2009-2014)

- Member of **Eco-club 'Paritantra'**, ANDC (2009-2014)
- Member of **Proctorial committee**, ANDC (2014-2015)
- Member of **Social outreach committee (NSS)**, ANDC (2014-2015)
- Member of **Theatre society 'Dhwani'**, ANDC (2014-2015)
- Member of **Garden Committee**, Miranda House (2016-2023)
- Member, **Admission Committee** Department of Botany, Miranda House (2018-19)
- Member of **Social outreach committee (NSS)**, Miranda House (2021-2023)
- **Staff Advisor, Botanical Society** Miranda House (2017-18, 2018-19, 2021-22, 2022-23)
- **Department of Botany coordinator** for Baseline Test, organized by D.S. Kothari Centre for Research and Innovation in Science Education & Department of Botany, Miranda House (2017-22)
- **Member, Extended Admission Committee** Department of Botany, Miranda House (2022-23)