



Miranda House

UNIVERSITY OF DELHI

Name: Ms. Pragati

Department: Botany

Current Designation: Assistant Professor (Guest)

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Academic Qualifications (reverse chronological order):

1. M.Sc. Botany, Department of Botany, University of Delhi, Delhi (2019)
2. B.Sc. (Hons.) Botany, Gargi College, University of Delhi, Delhi (2017)

Field of Specialization under the Subject/Discipline:

Research: Molecular Biology, Plant Reproductive Biology, Bioinformatics

Subjects Taught: Plant Tissue Culture, Reproductive Biology, Cell Biology, Floriculture

Teaching at Miranda House since: September 1, 2026

List of Publications (reverse chronological order):

(Articles in referred/peer-reviewed/UGC Care journals/ Books/Book Chapters)

- Chetry, P., Kumar, V., **Yadav, P.**, Goel, S., & Sharma, S. S. (2025). Differential aluminium toxicity in rice (*Oryza sativa* L.) landraces from Sikkim Himalaya: cellular Al-management determines tolerance. *Plant Physiology and Biochemistry*, 110576.
- Rahim, M. S., Sharma, V., **Yadav, P.**, Parveen, A., Kumar, A., Roy, J., & Kumar, V. (2023). Rethinking underutilized cereal crops: pan-omics integration and green system biology. *Planta*, 258(5), 91.
- Kumar, P., Oraon, P. K., **Yadav, P.**, Roy, A., Goel, S., Reddy, M. K., ... & Mandal, B. (2022).



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Random distribution of nucleotide polymorphism throughout the genome of tomato-infecting begomovirus species occurring in India: Implication in PCR based diagnosis. *VirusDisease*, 33(3), 270–283.

Chapters in Books

- Bhardwaj, V., **Yadav, P.**, Singh, K. P., & Gupta, A. (2026). Climate Resilient Agricultural Practices to Optimize the Therapeutic and Nutritional Potential of Microgreens for Sustainable Development of Urban Society. In *Smart Crop Development: Adapting Agriculture to Climate Change* (pp. 203-237). Singapore: Springer Nature Singapore.
- **Yadav, P.**, Shukla, R., & Gupta, A. (2025). Enhancing shelf life and nutritional quality of leguminous microgreens: insights into the application of nanotechnology, hydroponics, and genetic engineering approaches. In *Recent trends and applications of leguminous microgreens as functional foods* (pp. 421-448). Cham: Springer Nature Switzerland.

Posters/Presentations in conferences:

- **Yadav, P.**, Goel, S. Role of PhasiRNAs in regulating sexual and apomictic reproductive pathways in *Cenchrus americanus* (L.). XLVIII All India Botanical Conference of The Indian Botanical Society. October 29–31, 2025.
- **Yadav, P.**, Sharma, M., Goel, S. Insights into the involvement of small RNA in the reproductive and developmental pathway in the back-crossed addition line of *Cenchrus americanus* (L.). 45th Annual meeting of Plant Tissue Culture Association (India) and National symposium on Recent advances in Plant Biotechnology. January 23–25, 2024.

Membership of Professional Bodies (reverse chronological order):

- Life membership of Delhi University Botanical Society

Fellowships/Academic Awards:

- Received S. N. Chaturvedi Medal for Best Poster Presentation at the All India Botanical Conference of The Indian Botanical Society, 2025
- Awarded CSIR-UGC NET-Junior Research Fellowship (AIR 96) in 2019