

Dr Priyanka Khanduri
Assistant Professor
Department of Botany
Vidyasagar Metropolitan College
University of Calcutta

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Academic Record:

Ph.D.	Department of Botany, University of Delhi, Delhi	2014
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Title of thesis: "Reproductive Ecology, Developmental Biology and Phylogenetic Analysis of some Indian Podostemaceae"

Qualified CSIR-UGC NET		2008 (June)
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Awarded CSIR Junior Research Fellowship (2009-2010)

Awarded CSIR Senior Research Fellowship (2011-2013)

M.Sc.	Department of Botany, University of Delhi, Delhi	2008
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M.Sc. in Botany with special paper Plants, Man and Environment

1st Division with 72.6% marks.

B.Sc.	Kirori Mal College, University of Delhi, Delhi	2006
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B.Sc. in Botany (Hons.) with Zoology and Chemistry as subsidiary subjects

1st Division with 69.9% marks.

Sr. Secondary	CBSE Board	2003
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Sr. Secondary in Biology, Physics, Chemistry, Informatics Practices and English

1st Division with 77.2% marks.

Higher Secondary	CBSE Board	2001
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Higher secondary in English, Hindi, Mathematics, Science and Social Science

1st Division with 81.4% marks.

Work experience:

Teaching Experience

Assistant Professor, Department of Botany, Vidyasagar Metropolitan College, **University of Calcutta** from 14 December 2016 till date.

Assistant Professor, Department of Botany, Maitreyi College, **University of Delhi** from 24 July 2013 till 16 November 2016.

Areas of Interest/ Specialization

Reproductive biology and Development Biology of flowering plants, Phylogenetics and Molecular Biology

Subjects Taught

Taxonomy, Genetics, Cell Biology, Biochemistry, Plant Physiology and Reproductive Biology

Research:

Research Publications

- **Khanduri P**, Roy SK, Chandra A, Tandon R. **2024**. Reproductive biology of *Podostemum subulatum* (Podostemaceae) reveals pre-anthesis cleistogamy. *Plant Systematics and Evolution*. 310: 44.
- **Khanduri P**, Roy SK. **2024**. Global Warming and Sexual Plant Reproduction: Impact on Crop Productivity. In book: *Food Production, Diversity, and Safety Under Climate Change*, 165-177. Springer.
- **Khanduri P**, Roy SK. **2023**. Functions and Prospects of Melatonin During Pre-fertilization Reproductive Stages in Plants. In book: *Melatonin: Role in Plant Signaling, Growth and Stress Tolerance*. Springer.
- Krishnan R, **Khanduri P**, Tandon R. **2023**. Development of pollen dyads in *Polypleurum munnarens* Nagendran & Arekal (Podostemaceae): Insights into the plant's reproductive strategy. *Flora*. 305: 152331.

- Mangla Y, **Khanduri P**, Gupta CK. **2022**. Reproductive Biology of Angiosperms: Concepts and Laboratory Methods. Cambridge University Press.
- Roy SK, **Khanduri P**, Bhatnagar AK, Pandey AK. **2021**. Pollination biology and breeding system analysis of *Ulmus wallichiana* Planchon (Ulmaceae), a rare and threatened tree species of Central and Western Himalaya. Nordic Journal of Botany, doi: 10.1111/njb.02976.
- Krishnan R, **Khanduri P**, Tandon R. **2019**. *Zeylanidium manasiae*, a new species of Podostemaceae based on molecular and morphological data from Kerala. PhytoKeys, doi: 10.3897/phytokeys.124.33453.
- Krishnan R, **Khanduri P**, Tandon R. **2019**. Floral biology, pollination mechanism and embryo development in *Zeylanidium maheshwarii* (Podostemaceae). Vegetos. 10.1007/s42535-019-00025-4.
- Mangla Y, **Khanduri P**, Tandon R. **2016**. Gender determination mechanisms in plants: foundation for unisexuality. The International Journal of Plant Reproductive Biology. 8: 103-114.
- **Khanduri P**, Sharma R, Bhat V, Tandon R. **2015**. Isolation, expression and evolution of Fertilization Independent Endosperm homologs from Podostemaceae. Journal of Plant Research. 129: 241-250.
- **Khanduri P**, Tandon R, Uniyal PL, Bhat V, Pandey AK. **2015**. Comparative morphology and molecular systematics of Indian Podostemaceae. Plant Systematics and Evolution. 301: 861-882.
- **Khanduri P**, Chaudhary A, Uniyal PL and Tandon R. **2014**. Reproductive biology of *Willisia arekaliana* (Podostemaceae), a freshwater endemic species of India. Aquatic Botany. 119: 57-65.
- Chaudhary A, **Khanduri P**, Tandon R, Uniyal PL and Mohan Ram HY. **2013**. Central cell degeneration leads to three-celled female gametophyte in *Zeylanidium lichenoides* Engl. (Podostemaceae). South African Journal of Botany. 91: 99–106.
- **Khanduri P**, Tandon R, Uniyal PL, Sehgal A and Mohan Ram HY. **2009**. Floral morphology of Podostemaceae: A conspectus. In: Flower retrospect and prospect (Ed Y Vimla). SR Scientific Publication, Delhi.

Educational Programs Attended

- Participated and presented paper at international conference on Plant Science: Today and Tomorrow organized by CAS, Department of Botany, University of Calcutta from 19.12.2024-21.12.2024.
- Participated and presented paper at **5th Regional Science and Technology Congress 2022-23** organized by Department of Science and Technology and Biotechnology, Govt. of West Bengal on 04.01.2023-05.01.2023.
- Participated and presented paper at **National Seminar (online mode) on “Advancement of Plant Sciences for Food Diversity and Nutritional Security”** organized by University of North Bengal, in collaboration with UGC-HRDC, University of North Bengal on 30th September and 1st October, 2021.
- Participated and presented paper at **National Seminar on “Diversity in the Era of Globalization: Challenges and Management”** organized by Bidhannagar College, Barasat State University on 21st and 22nd February, 2020.
- Participated and presented paper at **international conference on “Algae, Fungi and Plants: Systematics to Applications (AFPSA-2020)”** organized by CAS, Department of Botany, University of Calcutta in collaboration with Botanical Survey of India on 24th and 25th January, 2020.
- Completed Refresher course on Non-conventional Energy-A paradigm shift towards sustainability at Department of Power Engineering, Jadavpur University, Kolkata, from 06.01.2020 to 18.01.2020.
- Completed **Orientation Program** at Centre for Professional Development in Higher Education, UGC-HRDC, University of Delhi from, from 21.11.17 to 19.12.17.
- Participated in **XXVII Annual Conference of Indian Association for Angiosperm Taxonomy and International Symposium on Plant Systematics: Priorities and Challenges** organized by Delhi University Botanical Society, Department of Botany, University of Delhi from 10.11.17 to 12.11.17.
- Participated in **Faculty Development Program** organized by FDI, kolkata, FDII, Ahmedabad and DST, GOI from 27.03.17 to 07.04.17.
- Participated in **National Workshop on “Plant Systematics: Challenges and Perspectives”** and “Dr. Dan H. Nicolson Memorial Lectures*” organized by Department of Botany, University of Calcutta from 13.02.17 to 23.02.17.
- Participated in **Training Course on "Basics of Plant Nomenclature"** at ENVIS Centre, BSI, Howrah on 14th & 15th January 2017.

- Participated in **National Workshop "Training the trainers: IPR"** at Miranda House, University of Delhi on 15.01.2016
- Participated in **National Workshop on Reproductive Biology of Angiosperms** organized by Dyal Singh College and Institute of Life Long Learning, **University of Delhi** in March, 2015.
- Participated in **National Workshop on Biology and technology of cultivable mushrooms** organized by Institute of Life Long Learning, **University of Delhi** in February, 2014.
- Participated in **National Workshop on Reproductive Biology of Flowering Plants for their Conservation and Improvement** sponsored by **Department of Science and Technology** and University of Delhi and organized by Delhi University Botanical Society in 2012.
- Participated in **National Workshop on Evolutionary Perspectives in Modern Biological Teaching and Research** organized by **Institute of Life Long Learning, Centre for Science Education and Communication**, University of Delhi in 2011.
- Participated in **National Seminar on Current Trends in Plant Sciences** organized by **Delhi University Botanical Society, Department of Botany**, University of Delhi, in 2007.
- Participated in **PACCIFY** (Program for the Awareness of Climate Change Issues Featuring the Youth), funded by **UNEP** and Implemented by **TERI** in 2005-06.

Distinctions

- Awarded **‘Second Best Oral Presentation’** at the international conference on Plant Science: Today and Tomorrow organized by CAS, Department of Botany, University of Calcutta from 19.12.2024-21.12.2024.
- Awarded **‘Best Oral Paper’** at **5th Regional Science and Technology Congress 2022-23** organized by Department of Science and Technology and Biotechnology, Govt. of West Bengal on 04.01.2023-05.01.2023.
- Awarded **‘Best Oral Presentation’** at the **National Seminar (online mode) on “Advancement of Plant Sciences for Food Diversity and Nutritional Security”** organized by University of North Bengal, in collaboration with UGC-HRDC, University of North Bengal on 30th September and 1st October, 2021.
- Awarded **‘Third prize’** at the **National Seminar on “Diversity in the Era of Globalization: Challenges and Management”** organized by Bidhannagar College, Barasat State University on 21st and 22nd February, 2020.

- **Awarded ‘Best Paper’** at the **International Conference on Algae, Fungi and Plant” Systematics to Applications** organized by Department of Botany, University of Calcutta and Botanical survey of India from January 24-25, 2020.
- **Editor**, The Botanica, Volume 58, 59-61
- **President** of Kirori Mal College’s **Botanical Society ‘MEDINI’** for the year 2005-06.

Personal Information

Nationality: Indian.

Date-of-Birth: 8thOctober, 1985

Marital Status: Married

Languages Known: English, Hindi and Bengali