

DR. ANAMIKA KUMARI
Assistant Professor
Department of Botany
GGDSD COLLEGE, Chandigarh
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DOB: October 4th, 1992



Educational Qualifications

Ph.D.in Botany

Department of Botany, Panjab University Chandigarh, India

PhD Thesis: Studies On In Vitro Propagation, Conservation And Phytochemical Analysis Of Some Medicinally Important Orchids Of Himachal Pradesh (2022)

Ph.D. Supervisor: Prof. (Dr.) Promila Pathak, Panjab University Chandigarh, India

Qualified U.G.C.(NET) in Life Sciences (2016);
Agricultural Scientists Recruitment Board- NET (2018);
State Eligibility Test (SET)- Himachal Pradesh (2015)

M.Phil (Botany) Department of Bio-Science, Himachal Pradesh University, Shimla, India (2014-2015)

M.Sc (Botany) - Department of Bio-Science, Himachal Pradesh University, Shimla, India (2012-2014)

Bachelor of Science (Medical) Govt. College, Dharamshala, Himachal Pradesh, India (2009-2012)

Teaching/Research Experience

- 17 January 2023- 21 April 2024
Assistant Professor (Adhoc), Department of Botany, GGDSD College, Sector 32C, Chandigarh
- December 2014 to March 2022
Junior/Senior Research Fellow in Department of Bio-Science, Himachal Pradesh University, Shimla & Department of Botany, Panjab University Chandigarh, India

Areas of Interest

- Ethnobotany, Micropropagation, Phytochemical studies, Conservation of Medicinally Important Orchids

Publications (Journal/Book Chapters)

Journal Publications:

Promila Pathak, **Anamika Kumari**, Brent D.Chandler, Lawrence W. Zettler. 2023. In vitro propagation and phytochemical analysis of therapeutically endangered orchid, *Vanda cristata* Wall. ex Lindl. South African Journal of Botany, 153: 109-23.

Promila Pathak, Sunita, **Anamika Kumari**, Babita Thakur, and Vasundhara. 2022. Regeneration competence of an endangered orchid *Vanda cristata* Wall. ex Lindl. Using leaf explants: A study in vitro. South African Journal of Botany, 151:1018-24.

Anamika Kumari and Promila Pathak. 2021. De novo plantlet regeneration from leaf explants of *Rhynchostylis retusa* (L.) Blume: A study in vitro. *Journal of The Orchid Society of India*, 35:47-54.

Anamika Kumari and Promila Pathak. 2020. Medicinal orchids of Shimla hills, Himachal Pradesh (Northwestern Himalayas), threats, and conservation measures. *Journal of The Orchid Society of India*, 34:45-56.

Kaur, S., Promila Pathak, Ankush Prakash, **Anamika**, Aakanksha Sharma. 2017. Ex situ conservation of floriculturally and medicinally important endangered orchid, *Coelogyne cristata* Lindl. *Journal of The Orchid Society of India*, 31:15-22.

Book Chapters:

- **Anamika Kumari**, Anuprabha, Promila Pathak. 2024. Orchids in traditional medicine practices and their conservation strategies using plant tissue culture techniques. In: *Biosustainability Concerns and Challenges* (eds. Silvy Mathew, Jisha, K, Rekha K.) pp. 81-93. Sooryagatha Publishers, Ernakulam, Kerala.
- **Anamika Kumari** and Promila Pathak. 2024. Ethnobotanical assessment of medicinal orchids and its sustainable utilization” In: *Sustainable Development in India: Strategies and way ahead* (eds. Ruchi Sharma, Mani Parti, Kapil Dev, Shipra Bansal) pp. 112-118. Mohindra Publishing House, Chandigarh, India.
- Anuprabha and **Anamika Kumari**. 2024. Microfluidics: An emerging technique. In: *Futuristic Trends in Biotechnology Vol. 3 Book. IIP Series*.

Seminars/ Conferences/Symposiums (Paper Presented)

- Attended and presented a paper during an International Conference cum Workshop on “Resource Development of Medicinal and Floricultural Orchids- Lab Techniques to Entrepreneurial Ventures & Orchid Show (Hybrid Mode)” organized jointly with Botanical Survey of India (BSI), Kolkata & CSIR-National Chemical Laboratory (NCL), Pune and in co-operation with SPP University, Pune; Biospheres, Pune; and PDEABG & DY Patil Colleges Pune from March 15 to 17, 2024 at CSIR-NCL, Pune through online mode.
- Attended and gave oral presentation on “Ethnobotanical assessment of medicinal orchids and its sustainable utilization” during an International seminar on “Sustainable Development in India: Strategies and way ahead” organized by GGSDS College, Sector 32C, Chandigarh on February 27, 2024.
- Attended and gave oral presentation on “Orchids in traditional medicine practices and their conservation strategies using plant tissue culture techniques” during National Seminar on *Biosustainability: Concerns & Challenges* organized by Biodiversity Club & Department of Botany, Vimala College

(Autonomous), Thrissur from December 12-13, 2023 through online mode.

- Attended “3rd International Conference and Buyers Sellers Meet for Medicinal Plants Used in Lifestyle Products” organized by Jadavpur University, Kolkata from December 06-08, 2023 through online mode.
- Attended and gave oral presentation during National Conference cum Workshop on “Multidisciplinary Approaches in Studies, Conservation and Resource Development of Medicinal and Ornamental Orchids and Orchid Show” organized by The Orchid Society of India and Panjab University, Chandigarh from March 3-5, 2023
- Participated and presented an oral presentation during 15th Chandigarh Science Congress. (CHASCON-2022) on Towards holistic development of Science & Technology through interdisciplinary approach at Panjab University, Chandigarh (September 15-17, 2022).
- Participated and presented an oral presentation entitled “De novo plantlet regeneration from leaf explants of *Rhynchosyris retusa* (L.) Blume: A study in vitro” during an International Conference cum Workshop (hybrid mode) on “Agrotechnology, Value Addition, Global Trade and Sustainability of Medicinal/Neutraceutical Orchids” and Orchid Show at Dr YSR Horticultural University, Venkataramannagudem-West Godavari, Andhra Pradesh (March 25-27, 2022).
- Participated and presented an oral presentation entitled “In vitro seed germination of an endemic and commercially important Indian orchid *Eulophia andamanensis* Rechb.f.” during National Conference cum Workshop (hybrid mode) on “Interdisciplinary Approaches to Taxonomy, Conservation and Economic Utilization of Floriculturally and Medicinally Important Orchids” and Orchid Show at Botanical Survey of India (BSI), Eastern Regional Centre, Woodlands, Laitumkhrah, Shillong, Meghalaya (March 5-7, 2021).
- Participated and presented an oral presentation entitled “Orchids in Indian Folk Medicine: from Ethnobotany to Pharmacology” during Two Days International Virtual Conference on Multidisciplinary Approaches for Tribal Sustainable Development at Indian Institute of Public Administration, New Delhi (January 28-29, 2021).
- Participated and presented poster presentation entitled “Conservation of an endemic Indian orchid, *Eulophia andamanensis* Rechb.f. using in vitro embryo culture” during National Symposium on Trends in Plant Biotechnology & Agriculture (February 6-8, 2020).
- Participated and presented poster presentation entitled “In vitro embryo culture and qualitative phytochemicals in therapeutically important and endangered orchid *Satyrium nepalense* D. Don” during ICONICA2020: International

Conference on Imminent Concerns & Applications Panjab University, Chandigarh (January12-14, 2020).

- Participated and presented a poster during a 3day Conference CHASCON -2019 held at Panjab University,Chandigarh (March13-15, 2019).
- Participated and presented a poster entitled “Orchid Flower Mimicry: The Astonishing Versatility in Orchid Morphology” during a 3 day Conference CHASCON-2018 held at Panjab University, Chandigarh (February12-14, 2018).
- Participated and presented a poster entitled “Orchids of Kangra District of Himachal Pradesh” during a 3day National Conference on Orchids held at Regional Agricultural Research Station, KAU, Ambalavayal, Wayanad, Kerala (March16-18, 2018).
- Participated and presented a poster entitled “Ethnobotanical Aspects of Orchids in Himachal Pradesh” during a National Conference cum Workshop on “Recent Trends on Biology, Culture, Conservation, Commercialization and Sustainable Utilization of Medicinally and Floriculturally Important Orchids” held at Graphic Era University, Dehradun, Uttarakhand (March 26-28, 2017).

**Refresher
Courses/Workshops/Training
Programmes**

- Attended IP Awareness /Training program under National Intellectual Property Awareness Mission organized by Intellectual Property Office, India on April 26, 2024 through online mode.
- Attended online- NEP 2020 Orientation & Sensitization Programme from 16.02.2024 to 29.02.2024 under Malaviya Mission Training Programme (MM-TTP) of UGC Grant Commission (UGC) organized by UGC-Malaviya Mission Teacher training Centre (MMTTC), Panjab University, Chandigarh
- Attended One-Week National Level Faculty Development Programme on “Curriculum, Research and Innovation for Academic Excellence” organized by PG and Research Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamil Nadu from February 01- 07, 2024 through online mode.
- Attended Capacity Building & Training Workshop of Ecoclubs Members on the Theme Zero Waste City- Chandigarh on Concept of 4R’s Reduce, reuse, Recycle, and Recover Teachers Training and Green Campus Programme organized by Climate Change Cell, Department of Environment, Chandigarh Administration and Chandigarh Pollution Control Committee organized by GGSDS College, Sector 32, Chandigarh from March18-19,2023.

- Invited Talks** • --
- Projects** • Project under WISE Post-Doctoral Fellowship, Department of Science and Technology, New Delhi (September 2024 to till date)
- MOOCS/Online Content** • --
- M. Phil Dissertation Supervised** • --
- PhD Thesis** • --
- Administrative Experience** • --
- Membership of Economic Associations** • Life Membership of The Orchid Society of India (TOSI)

DR. ANAMIKA KUMARI
FACULTY NAME