

Dr. VAISHALI CHANDOLA

SHIVA VILLA PANWAR MARG OPPOSITE SSB, BHAKTIYANA,
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OBJECTIVE:

To update my skills, utilize my expertise to the maximum and continue my inclination towards learning and growth.

AREAS OF INTEREST

- Plant Eco-physiology
- Plant Reproductive and Conservation Biology
- Ethno-botany
- Plant Tissue Culture

ACADEMIC QUALIFICATIONS:

1. **Ph.D. in Plant Physiology from High Altitude Plant Physiology Research Center, H.N.B. Garhwal University, Uttarakhand, India. Ph.D. title:** Conservation strategies for a threatened medicinal herb *Trillium govaniatum* Wall ex. D.Don.
2. **Qualified UGC NET** (Assistant Professor) in **Environment Science**.
3. **Post-graduation:** First Class Master's Degree in Science with specialization in Medicinal and Aromatic plants from High Altitude Plant Physiology Research Center, H.N.B Garhwal University.
4. **Graduation:** First Class Bachelor's degree in Life Sciences (Botany, Zoology and Chemistry).
5. **10+2** : First Class from Kendriya Vidhayalaya Srinagar Garhwal (CBSE).
6. **10th** : First Class from S.G.R.R. Public School (CBSE).

IT Skills : MS Office, SPSS and Internet Applications

Core Competencies: Instrumentation (Spectrophotometer, flame photometer, AAS, HPLC), plant tissue culture and agricultural techniques.

WORK EXPERIENCE:

- **Presently working as a guest faculty** (HAPPRC, School of Agriculture and Allied Sciences) at H.N.B. Garhwal University since February 2022. Handling academic courses like Plant Growth and Development, Pharmacology, Plant Environmental Physiology, Quality control and Phyto-chemical methods, Ethnobotany etc. Also taught practical methods on plant phytochemical analyses and plant tissue culture techniques.
- Worked as Senior Research Fellow (Aug 2014 to June 2015) at Patanjali Herbal Research Department, Patanjali Yogpeeth Haridwar.

MEMBERSHIP OF SCIENTIFIC ORGANIZATIONS

- Member of **Society for Plant Research**.

RESEARCH PUBLICATIONS:

1. **Vaishali Chandola**, Chandra, S., Nautiyal, A.R., Kumar, R.R., Purohit, V.K. TDZ and zeatin induced in vitro shooting for efficient vegetative propagation in *Trillium govanianum*, an endangered alpine medicinal herb. *Vegetos* (2023). <https://doi.org/10.1007/s42535-023-00746-7> (**Scopus IF: 1.34**)
2. **Vaishali Chandola**., Chandra, S., Kumar, R.R. et al. Reproductive behavior of an endangered Himalayan medicinal herb *Trillium govanianum* Wall. ex D. Don. *Vegetos* (2022). <https://doi.org/10.1007/s42535-022-00548-3> (**Scopus IF: 1.34**)
3. **Vaishali Chandola**, Chandra S., Nautiyal A.R., Germani C. (2022). Antioxidant potential and impact of different extraction solvents on the free, esterified and insoluble bound phenolics, flavonoids and tannin content of *Trillium govanianum* Wall ex. D. Don, a rare Himalayan herb. *Vegetos*. Doi: 10.1007/s42535-022-00365-8 (**Scopus IF: 1.34**)

4. Chandra S, **Vaishali Chandola** et al. (2022). Climate change adversely affects the medicinal value of Aconitum species in Alpine Region of Indian Himalaya. *Industrial Crops and Products*. 186(115277). doi: <https://doi.org/10.1016/j.indcrop.2022.115277> (IF: 6.5)
5. Chandra S., **Vaishali Chandola**, Nautiyal M.C., Gallacher D., Singh C.P., Purohit V.K. (2022). Varied multi-season response of Aconitum heterophyllum Wall. to increased CO₂ in the Indian Himalaya. *Journal of Applied Research in Medicinal and Aromatic Plants*. 29 (100377). Doi: <https://doi.org/10.1016/j.jarmap.2022.100377> (IF: 3.9)
6. **Vaishali Chandola.**, Chandra S., Nautiyal A.R., Kumar R.R., (2020). A short report on the first account of morphological variants of Trillium govaniatum observed at Tungnath, Indian Himalayas. *Ecology, Environment & Conservation*. 26: S109-S110. (IF: 0.5)
7. Chandra S., **Vaishali Chandola**, Nautiyal M.C., Purohit V.K. (2020). Elevated CO₂ causes earlier flowering in an alpine medicinal herb Aconitum heterophyllum Wall. *Current Science*. 118:1650-1651 (IF: 1.1)
8. Sultan Z, Nautiyal AR, **Vaishali Chandola** (2020). Basic characteristics of Fungal Endophytes (2021). *Ecology, Environment & Conservation*. 27(3), pp: 1413-18.
9. **Vaishali Chandola**, Nautiyal A.R., Chandra S., Kumar R.R. (2019). A review on prioritizing conservation of Himalayan medicinal plant species: Case of Trillium govaniatum (Wall. ex D. Don) kunth. *Journal of Medicinal Plant Studies*. 7(5):23-27.
10. **Vaishali Chandola**, Nautiyal A.R., (2017). Ethnomedicinal study on the Bhotiya Tribe in Chhinka Village, Chamoli, Uttarakhand, India. *Journal of Non-Timber Forest Products* 24 (3) 153-158, 2017.
11. Concenco, G.; Tomazi, M.; Marques, R. F. .; Chandra, S.; **Vaishali Chandola**, Melo, T. S. .; Silva, L. B. X. Da. (2021). Sustainability of cassava cultivation in indigenous communities of Brazilian Pantanal. *Research, Society and Development*, [S. l.], v. 10, n. 1, p. e56010112070, 2021. DOI: 10.33448/rsd-v10i1.12070.
12. Kumar R.R., **Vaishali Chandola**, Chauhan J., Prasad P., Purohit V.K. (2019). Medicinal Importance of Swertia Speciosa (Wall D.Don:) A Review. *Journal of Emerging Technologies and Innovative Research*, 6(6).
13. Book Chapter (Accepted, in-publication): Chandra S, **Vaishali Chandola** et al. (2022). Responses of herbaceous species of alpine treeline to elevated CO₂ (Chapter 18). *Ecology of Himalayan Treeline Ecotone*. Springer Nature Singapore. ISBN: 978-981-19-4475-8.

CONFERENCES AND WORKSHOPS:

1. Presented a paper entitled “A Study on the Ethnomedicine of the Bhotiya Tribe in Chhinka Village Chamoli” via oral presentation in a national conference organized by SMP held at IARI Pusa Campus New Delhi.
2. Attended a 3 day workshop on Statistical Techniques Using Software (SPSS) at DIT University Dehradun.
3. Participated in a **National Workshop** on “Popularisation of Remote Sensing Based Maps & Geospatial Information,” jointly organised by ISRS and ISRO (Aug 11, 2017).
4. Participated and presented a poster paper entitled, *Need for Conservation of a Valuable Himalayan Medicinal Plant species Trillium govanianum* (Wall ex. D.Don) Kunth, in a **National Conference** on “Recent Advances in Ayurvedic Herbal Medicine-From Source to Manufacturing,” sponsored by National Medicinal Plant Board (Ministry of AYUSH, Govt. Of India) and organised by Faculty of Biomedical Sciences, Uttarakhand Ayurved University, Dehradun at Indian Institute of Petroleum, Dehradun (15-16 Sept, 2017).
5. Participated and presented an oral paper entitled, *Prioritizing conservation of Himalayan medicinal plant species: case of Trillium govanianum* (Wall. ex D. Don) Kunth, in an **International Seminar** on “The Himalayan Challenge: Towards Interdisciplinary Dialogues for Sustainability and Development,” organised by Sri Dev Suman Uttarakhand University in collaboration with Doon University at Dehradun (29 Nov- 01 Dec, 2017).
6. Participated and presented an oral paper entitled, *Himalayan Medicinal Herbs: an Alternate Livelihood Option*, in a **Summit on Climate Resilient Mountain Agriculture** organized by Watershed Management Directorate Uttarakhand at Forest Research Institute, Dehradun (02-04 May 2018).
7. Participated and presented an oral paper entitled, *Anti-oxidant Potential, Total Phenolic, Flavonoid and Tannin content of Trillium govanianum Wall ex D. Don, an important Himalayan Herb*, at **13th USSTC** organized by Uttarakhand State Council for Science and Technology (UCOST) Dehradun at 26-28th Feb., 2019.

PERSONAL DATA:

Father's name: Mr. Vijay Kumar Chandola

Date of birth: 04th Dec., 1990

Nationality: Indian

Marital Status: Married

Languages known: Hindi and English (Read, Write, Speak)

Permanent Address: Shiva Villa near S.S.B Bhaktiyana, Srinagar Garhwal.

Hobbies: Singing, reading and collecting books, travelling

A handwritten signature in black ink, reading "Vaishali Chandola". The signature is written in a cursive style with a horizontal line underneath the name.

Place: Srinagar Garhwal

(Dr. Vaishali Chandola)