

## Curriculum Vitae

Full Name: Dr. Vijay Laxmi

Designation: Assistant Professor

Department/Institute/University:

High Altitude Plant Physiology Research Centre (HAPPRC),

Hemvati Nandan Bahuguna Garhwal University

Date of Birth: 27 Nov 1988

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### Education

Examination	Year	Subject	Board/University	Division
Ph. D.	2018	Plant Physiology	H.N.B. Garhwal University, Srinagar Garhwal, Uttarakhand, India	-
NET	2013& 2014	Life Science	CSIR - Human Resource Development, Govt. of India	0036/0964 0048/1047
M. Sc.	2010-2012	Botany	Govind Ballabh Pant University of Agriculture & Technology, Pantnagar, Uttarakhand, India	1 <sup>st</sup> CGPA 7.78
B. Sc	2007-2010	Zoology, Botany, Chemistry	H.N.B. Garhwal University, Srinagar Garhwal, Uttarakhand, India	1 <sup>st</sup> (72%)
12 <sup>th</sup>	2007	English, Hindi, Physics, Chemistry, Biology	Central Board of Secondary Education	1 <sup>st</sup> (75%)
10 <sup>th</sup>	2005	English, Hindi, Maths, Science, Social Science	Central Board of Secondary Education	1 <sup>st</sup> (77%)

### Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award

“Physio- biochemical studies and in vitro propagation in male and female plant of Hippophae salicifolia D. Don”. Under the Supervision of the Prof. M.C. Nautiyal , HAPPRC, HNBGU, 2018.

### Position and Employment (Starting with the most recent employment)

Sl No.	Institution	Place	Position	From (Date)	To (date)
1	High Altitude Plant Physiology Research Centre, HNBGU	Srinagar Garhwal	Assistant Professor	5 March 2020	Till date
2	High Altitude Plant Physiology Research Centre, HNBGU	Srinagar Garhwal	Guest Faculty	1 September 2019	4 March 2020
3	Department of Botany and Microbiology , BGR Campus Pauri, HNBGU	Pauri Garhwal	Guest Faculty	August 2017	May 2019

### Publications (Numbers only) 25

#### Selected peer-reviewed publications

1. Antimicrobial activity of dried stolon extracts of *Picrorhiza kurrooa* Royle ex. Benth. An endemic and endangered Himalayan herb, **V Laxmi** and Preeti Chaturvedi, *ENVIS Bulletin Himalayan Ecology*, ISSN: 0971-7447, (2015), 23: 127-132.
2. Effects of Anthropogenic Activities in High Altitude Areas of Garhwal Himalaya: An Overview. D Chand, J Sati, **V Laxmi**, MC Nautiyal, *ESSENCE - International Journal for Environmental Rehabilitation and Conservation*, ISSN: 0975 – 6272, (2016), 7(1):78-87.
3. Antioxidant Potential of Herbal Tea from *Rhododendron anthopogon* D. Don and *Hippophae salcifolia* D. Don **VL Trivedi**, J Sati, D Chand and MC Nautiyal, *Journal of Non-Timber Forest Products*, ISSN: 0971-9415, (2017), (3)131-135.
4. Antimicrobial Potential of Acetone and Methanol extracts of *Rhus parviflora* Roxb, M

- Panwar, **V Laxmi**, D Chand, MC Nautiyal, *Indian Journal of Forestry*, ISSN: 0971-9431 (2016), 39(3): 225-230.
5. Status of Priority based Subsidized MAP Species for Cultivation and Conservation in Chamoli District, Uttarakhand Himalaya, D Chand, **V Laxmi**, J Sati, MC Nautiyal, *Journal of Non-Timber Forest Products*, ISSN: 0971-9415, (2016) 23(4) 181-189.
  6. Evaluation of Antioxidant Activity of Rhizome Extract of *Paris polyphylla* Smith, J Sati, **V Laxmi**, D Chand, MC Nautiyal, *Journal of Non-Timber Forest Products*, ISSN: 0971-9415, (2017), 24(3) 147-151.
  7. Effect of Chilling treatment and different growth media on seed germination and seedling growth performance of *Picrorhiza kurrooa*: An endangered medicinal herb. D Chand , MC Nautiyal, **V Laxmi**, J Sati, *Journal of Non-Timber Forest Products*, ISBN: 0971-9415, (2018), 25 (1) 57-62.
  8. Phenological variations of Primary biochemicals in male and female plants of *Hippophae salicifolia* D. Don. **VL Trivedi**, D C Attri, J Sati , MC Nautiyal, *Journal of Plant Biochemistry and Biotechnology*, ISSN: 0974-1275, 0971-7811, (2020), 29: 225–235.
  9. *In vitro* propagation of male and female *Hippophae salicifolia* D. Don. **VL Trivedi**, MC Nautiyal, J Sati, DC Attri, *In Vitro Cellular and Developmental Biology- Plant*, ISSN: 0971-7811, (2020), 56: 98–110.
  10. Antioxidant enzyme activities in male and female plants of *Hippophae salicifolia* D. Don in different pheno-phases, **V L Trivedi**, MC Nautiyal, J Sati, DC Attri, *Acta Physiologiae Plantarum*, ISSN: 1861-1664, (2020) , 42 (64), DOI: <https://doi.org/10.1007/s11738-020-03049-5>.
  11. HPTLC Fingerprinting of Cultivated *Picrorhiza kurrooa* Accessions in Uttarakhand, Western Himalaya. Dharam Chand Attri, Mohan Chandra Nautiyal, Vinod Kumar Bisht, Bhagwati Prasad Nautiyal, Amit Bahukhandi, **Vijaylaxmi Trivedi**, Jyoti Sati. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* <https://doi.org/10.1007/s40011-021-01286-3>.
  12. Seabuckthorn (*H. salicifolia*) leaves a good source of natural antioxidant compounds. **Vijay Laxmi Trivedi**, Dharam Chand Attri, Amit Bahukhandi, Mohan Chandra Nautiyal, Jyoti Sati. has been accepted for publication in National Academy Science Letters.
  13. Challenges and prospects for the in-vitro conservation of plants having anticarcinogenic potential in the Western Himalaya, India. Sati, P., Chauhan, M., **Trivedi, V.L.** et al. *Plant Cell Tiss Organ Cult* (2022). <https://doi.org/10.1007/s11240-022-02409-y>
  14. Poisonous Plants of the Indian Himalaya: An Overview. Abhishek Jamloki, **Vijay Laxmi Trivedi**, M.C. Nautiyal, Natália Cruz-Martins, Prabhaker Semwal . *Metabolites* 12(6):540
  15. Impact of *Polygonum polystachyum* Wall. Ex Meisn. (Himalayan knotweed) infestation on physio-biochemical parameters of the *Picrorhiza kurrooa* Royle. **Trivedi, V.L.**, Chandra, S. & Nautiyal, M.C. *Acta Physiol Plant* 44, 107 (2022). <https://doi.org/10.1007/s11738-022-03446-y>
  16. Impact of silver nitrate on the survival and regeneration potential of explants of *Hippophae salicifolia* (Seabuckthorn) D. Don. Vijay Laxmi Trivedi, Prabhakar, Semwal, Sudeep Chandra, M.C.Nautiyal, Dharam Chand Attri, Yashaswi Singh (2022). *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2022.08.111>
  17. Anti-cancer properties of boswellic acids: mechanism of action as anti-cancerous agent. **Trivedi Vijay Laxmi**, Soni Ruchi, Dhyani Praveen, Sati Priyanka, Tejada Silvia, Sureda

Antoni, Setzer William N., Faizal Abdull Razis Ahmad, Modu Babagana, Butnariu Monica, Sharifi-Rad Javad (2023). *Frontiers in Pharmacology*, 4: DOI=10.3389/fphar.2023.1187181

18. Global research progress on reproductive behavior and ethnobotany of the *Saussurea* genus: Literature review-based- bibliometric analysis (2023). Singh, Pooja & Gargi, Baby & **Trivedi, Vijaylaxmi** & Thapliyal, Ashish & Semwal, Prabhakar. *Ethnobotany Research and Applications*. 26. 1-15. 10.32859/era.26.25.1-15.

## Book Chapters

1. Vijay Laxmi Trivedi, Dharam Chand, Jyoti Sati and M. C. Nautiyal (2018) *Hippophae salicifolia* (Seabuckthorn): Source of Economic Development in Higher Himalayan Region. In: Dynamics of Socio-Economic Development“ Bharti Publication, New Delhi ISBN: 978-93-86608-31-4.
2. Dharam Chand, Vijay Laxmi, Jyoti Sati and M. C. Nautiyal (2018) Policies & Schemes of Medicinal Plants Farming: An Innovative Effort towards Livelihood Security in Indian Himalayan Region. In: Dynamics of Socio-Economic Development“ Bharti Publication, New Delhi ISBN: 978-93-86608-31-4.
3. Microenvironments, Microhabitats, Microreserves: Rooms of Hope for Conservation in Climate Change Persistence. V L Trivedi, DC Attri, MC Nautiyal. In: Environment Conservation, Bharti Publication, New Delhi ISBN -978-81-949793-9-5 (2021).
4. Antioxidant Properties of Alpine Plant .V L Trivedi and M C Nautiyal (March 7th 2021). [Online First], IntechOpen, DOI: 10.5772/intechopen.96735. Available from: <https://www.intechopen.com/online-first/antioxidant-properties-of-alpine-plant>.
5. Bioactivity Potential and Pharmacological Efficiency of *Piper betle* L. Vijay Laxmi Trivedi, Dharam Chand Attri, M C Nautiyal. In book: Phytochemical composition and pharmacy of medicinal plants. Publisher: Apple Academic Press.
6. Bioactive Constituents and Pharmacological Activity of *Citrullus colocynthis* (L.) Schrad, Dharam Chand Attri, Deepika Tripathi, Vijay Laxmi Trivedi, Indra D. Bhatt, and Mohan Chandra Nautiyal. In book: Phytochemical composition and pharmacy of medicinal plants. Publisher: Apple Academic Press. .
7. Bioactive Compounds and Biological Activities of Nepal Yam (*Dioscorea deltoidea* wall. Ex Griseb.). Sati, P., Trivedi, V.L., Semwal, P., Nautiyal, M.C. (2023). In: Murthy, H.N., Paek, K.Y., Park, S.Y. (eds) *Bioactive Compounds in the Storage Organs of Plants*. Reference Series in Phytochemistry. Springer, Cham. [https://doi.org/10.1007/978-3-031-29006-0\\_38-1](https://doi.org/10.1007/978-3-031-29006-0_38-1)

## Projects

1. Production of Quality planting material, cultivation and market linkages of four commercially important plants of Himalayan region (*Aconitum heterophyllum*, *Gaultheria fragrantissima*, *Nardostachys jatamansi* & *Swertia chirayita*)- **PI**.
2. Assessment of nutraceuticals and chemical composition of the Himalayan spice “Allium” and their micropropagation for sustainable utilization- **COPI**.
3. Mapping, Niche Modeling and Assessment of Conservation Status of the MAPs in Rudraprayag Forest Division )- **PI**.

4. Characterizing Patterns and Processes of Alpine Ecosystem in Indian Himalaya with Special Emphasis to Garhwal, Uttarakhand. - **PI**

**Awards**

1. Young Women Scientist Award- 2021. Received on the occasion of the 3<sup>rd</sup> International conference on Global Initiative in Agricultural, forestry, and Applied Sciences for Food Security, Environmental Safety and Sustainable Development (GIAFAS-2021) at Shri Guru Ram Rai University, Deharadun, Uttarakhand, India.

**Declaration**

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

**Vijay Laxmi**

Date: - December 12, 2023

Place: - Srinagar Garhwal