

Dr. VINAY PRAKASH

ASSISTANT PROFESSOR

Department of Botany
B.L.J. Govt. (P.G.) College Purola, Uttarkashi
Higher Education Uttarakhand



+91-8859743365



:vinayfalit@gmail.com



Ganger, Kemar , P. O. Pilkhi
Tehri Garhwal

PERSONAL INFORMATION

Father's Name	Late Sri K. N. Nautiyal
Date of Birth	15-04-1971
Nationality	Indian
Gender	Male
Languages Known	Hindi, Garhwali & English
Marital Status	Married

EDUCATION

COURSE	YEAR	COLLEGE/INSTITUTE	BOARD/UNIVERSITY
B.Sc. (CBZ)	1991	SRT Campus Tehri	H.N.B. Garhwal University
M.Sc. Botany	1994	BCC Campus Srinagar	H.N.B. Garhwal University
Ph.D.	2000	HAPPRC	H.N.B. Garhwal University

AWARDS & ACHIEVEMENTS

- Scholarship from Uttar Pradesh Student Welfare Fund for Research 1998
- Research Associateship from CSIR, New Delhi 2002

RESEARCH EXPERIENCE

- 22 Years Research experience after Ph. D. 2000– Present

TEACHING EXPERIENCE

- 05 Years Teaching experience (M. Phil, Diploma and Certificate Course) HAPPRC, HNGBU 2000-2005
- 12 Years (M. Sc. Seed Science and Technology) Chauras Campus, HNGBU 2005 – Apr. 2017
- 04 Years M. Sc. and B. Sc. GPGC Gopeshwar May 2017-2021
- M. Sc. and B. Sc. BLJ GPGC Purola Jan 2022 to till date

RESEARCH PUBLICATIONS

1. B. P. Nautiyal, Vinay Prakash and M.C. Nautiyal (2000). Structure and diversity pattern along an altitudinal gradient in an alpine meadow of Madhayamaheshwar, Garhwal Himalaya. Indian J. Envi. Sci. 4(1), 39-48. ISSN: 0971-8958
2. Vinay Prakash, P. Prasad and M. C. Nautiyal (2001). Changes in Chlorophyll and Carotenoid Contents of Three Polygonum species Grown at Different Altitudes in Garhwal Himalaya. J. Plant Biol. 28(1), 115-118. NAAS- 3.6, ISSN: 0250-5991
3. M.C. Nautiyal, B. P. Nautiyal and Vinay Prakash (2001). Phenology and growth form distribution in an alpine pasture at Tungnath, Garhwal, Himalaya. Mountain Research and Development, 21(2), 177-183. NAAS-7.0. IMPACT FACTOR-0.476, ISSN: 0276-4741
4. Vinay Prakash and M. C. Nautiyal (2001). Seed Germination Behaviour in Two Polygonum species. Seed Research, 29(2): 145-149. NAAS-4.7, ISSN: 0379-5594.
5. B. P. Nautiyal, Vinay Prakash, R. S. Chauhan, Harish Purohit and M.C. Nautiyal. (2001). Assessment of germinability, productivity and cost benefit analysis of Picrorhiza kurrooa cultivated at lower altitude. Current Science, 81(5), 579-585. NAAS-7.3. IMPACT FACTOR-0.897, ISSN: 0011-3891.
6. Vinay Prakash, P. Prasad and M. C. Nautiyal (2001). Changes in biochemical attributes during acclimatization of Polygonum species, at different altitudes in Garhwal Himalaya. Indian J. Plant Physiol., 6(3), 244-248. NAAS-5.5, ISSN: 0019-5502.
7. Vinay Prakash, P. Prasad and M. C. Nautiyal (2002). Enzymatic and Polypeptide Variation in Polygonum Species Grown at Different Altitudes in Garhwal Himalaya. Physiol. Mol. Biol. Plants., 8(2): 267-277. NAAS-5.2 , ISSN: 0971-5894.
8. Nautiyal, B. P., Vinay Prakash, R. Bahuguna and M.C. Nautiyal (2002). Key factors of agrotechnology for the cultivation of high altitude medicinal and aromatic plants. Ann. For., 10(1): 85-98. ISSN: 0971-4022.
9. Nautiyal, M. C., Vinay Prakash and B. P. Nautiyal (2002). Cultivation techniques of some high altitude medicinal herbs. Ann. For., 10(1): 62-67. ISSN: 0971-4022.
10. B. P. Nautiyal, Vinay Prakash, R. Bahuguna, U. Maithani, H. Bisht and M.C. Nautiyal (2002). Population study for monitoring the status of rarity of three Aconite species in Garhwal Himalaya. Tropical Ecology, 43(2), 297-303. NAAS-3.9, ISSN: 0564-3295.
11. Bahuguna, R., M. C. Purohit, B. P. Nautiyal, Vinay Prakash, M. C. Nautiyal and A. N. Purohit (2003). Polypeptide patterns and isoenzyme in different population of the Aconitum heterophyllum Wall. ex. Royle, from Garhwal Himalaya, India. Physiol. Mol. Biol. Plants. 9(1): 95-100. NAAS-5.2, ISSN: 0971-5894.
12. Nautiyal, B. P., Vinay Prakash, R.S. Chauhan, H. Purohit and M.C. Nautiyal, (2003). Germinability, productivity and economical viability of Rheum emodi Wall. ex. Meissn. cultivated at lower altitude. Current Science, 84(2): 143-148. NAAS-7.2 & IMPACT FACTOR-0.897, ISSN: 0011-3891.
13. Nautiyal, B. P., Vinay Prakash, R.S. Chauhan, Harish Purohit and M.C. Nautiyal. 2001. Population studies for the determination of threat status and identification of elite of Nardostachys jatamansi - a dwindling medicinal herb in Garhwal Himalaya for future conservation and cultivation. Plant Genetic Resources News Letter. 136: 1-6. ISSN: 0167-4412.

14. Nautiyal, B. P., Vinay Prakash, R. Bahuguna and M.C. Nautiyal (2002). Development of agrotechnology and cultivation of medicinal plants: as a tool for conservation. In: Proceedings of International workshop on endangered medicinal plant species in Himachal Pradesh (S. K. Badola, ed). Organized by GBPIHED Himachal Unit Mohal Kullu, H.P. 18-19th March 2002.
15. Bahuguna, R., U. C. Maithani, B. P. Nautiyal, Vinay Prakash, H. Purohit and M.C. Nautiyal (2002). Qualitative and quantitative variations in active ingredients of some alpine medicinal herbs from different populations of Garhwal Himalaya. In: Proceedings of International workshop on endangered medicinal plant species in Himachal Pradesh (ed. S. K. Badola). Organized by GBPIHED Himachal Unit Mohal Kullu, H.P. 18-19th March 2002.
16. Vinay Prakash, B. P. Nautiyal, Hemlata Bisht and M. C. Nautiyal (2003). Effect of scarification and cold treatment on dormant seeds of *Polygonum macrophyllum*. Seed Research. 31(2): 186-189. NAAS-4.7, ISSN: 0379-5594.
17. M.C. Nautiyal, B. P. Nautiyal and Vinay Prakash (2004). Effect of grazing and climatic changes on alpine vegetation of Tunghath, Garhwal Himalaya. India. The Environmentalist. 24: 125-134. ISSN: 0251-1088.
18. Nautiyal, B. P., Vinay Prakash, R.S. Chauhan, H. Purohit, R. Vashistha and M.C. Nautiyal (2005). Cultivation of *Aconitum* Species. J. Trop. Med. Plants, 6(2):193-201. ISSN: 1511-8525.
19. Vinay Prakash, Hemlata Bisht, B. P. Nautiyal, M. C. Nautiyal and A. R. Nautiyal (2005). Effect of storage conditions on germinability of seeds of some alpine medicinal plants species. Seed Research, 33 (2): 165-168. NAAS-4.7, ISSN: 0379-5594.
20. Chauhan J S, Y K Tomar, Anoop Badoni, N Indrakumar Singh, Seema Ali, Devarati, A S Rawat and V P Nautiyal (2009). Morphology and Influence of various Plant Growth Substances on Germination and Early Seedling Growth in *Macrotyloma uniflorum* Lam. Journal of American Science. 5(7). ISSN: 1545-1003.
21. Vinay Prakash and Hemlata Bisht (2010). Genetic Polymorphism in Inter Population Variation of *Podophyllum hexandrum* Royle- an Endangered Medicinal Plant of Himalaya. Report and Opinion, 2 (7):55-58. ISSN: 1553-9873.
22. Vinay Prakash, Hemlata Bisht and P. Prasad (2011). Altitudinal Variation in Morpho-Physiological Attributes in *Plantago major*: Selection of Suitable Cultivation Site. Research Journal of Medicinal Plant, 5(3): 302-311. ISSN: 1819-3455.
23. Hemlata Bisht, Vinay Prakash and A. R. Nautiyal (2011). In vitro Plant Propagation for Rapid Multiplication and Conservation of *Fraxinus micrantha*: a Himalayan Tree Species of High Medicinal Value. International Research journal of Biotechnology. 2(9): 220-227. ISSN: 2141-5153
23. Vinay Prakash, Hemlata Bisht and M. C. Nautiyal (2011). Seed Germination Enhancement in High Altitude Medicinal Plants of Garhwal Himalaya by Some Pre-Sowing Treatments. Research Journal of Seed Science, 4(4):199-205. ISSN: 1819-3552.
24. Hemlata Bisht, Vinay Prakash and A. R. Nautiyal (2011). Conservation Strategies for the threatened *Quercus semecarpifolia* SM. A Himalayan Timberline Oak. International Journal of Conservation Science, 2(4): 275-284. ISSN: 2067-533X.
25. Hemlata Bisht, Vinay Prakash and A. R. Nautiyal (2012). Factors Affecting Regeneration Potential of *Quercus semecarpifolia*, Smith: A Poor Regenerated Oak of Himalayan Timberline. Research Journal of Seed Science. 5(2):63-70. ISSN: 1819-3552.

26. Raman Bahuguna, Hemlata Bisht and Vinay Prakash (2012). Active Content Enhancement through different Agrotechnological and Post harvesting Approaches in *Picrorhiza kurrooa* Royle ex Benth: An Endangered Medicinal Plant. International Journal of Biological Chemistry 6(3): 97-102.
27. Raman Bahuguna, Vinay Prakash and Hemlata Bisht (2013). Quantitative enhancement of active content and biomass of two Aconitum species through suitable cultivation technology. International Journal of Conservation Science. 4(1):101-106.
28. Vinay PRAKASH, Atul NAINWAL, Awaneendra Singh RAWAT, Jai Singh CHAUHAN, Hemlata BISHT (2013). Enhancement of germination in Abrus precatorius L. seeds by specific pre showing treatments. International Journal of Conservation Science. 4(2):237-242.
29. Varsha Bhandari, Hemlata Bisht, Vinay Prakash, 2020. Impact of Temperature and growth Regulators on germination of some medicinal plants. International Journal of Conservation Science. 11(3), 799-806.
30. **Vinay Prakash** and Hemlata Bisht (2021). Millets of Uttarakhand: A Nutraceuticals Perspective. Plantica-Association of Plant Science Researchers, PSRM-4/NCAPSR/085.
31. M. Thapliyal, S. Panwar, D. Rana M. Pant, P. Semwal, U. Sharma, S. Majaw, **Vinay Nautiyal**, S. Kumar, R. Dobhal and A. Thapliyal (2022). Biochemical Analysis of Curcumin content of turmeric (*Curcuma longa*) from Himlayan region of Uttarakhand and its economic potential. Biochem. Cell. Arch. 22(1), pp1109-1114.

Book Article

B.P. Nautiyal, Vinay Prakash and M.C. Nautiyal (May 2004). Amesh Ka Vyavsaik Krishikaran. Amaltas (Medicinal plants cultivation and marketing, Monthly Magazine, Sonamukhi Nagar, Sangriya fanta, Salavas Road, Jodhpur-342005, Rajasthan, India.

WORKSHOPS & CONFERENCES

PARTICIPATION IN SEMINARS AS PAPER CONTRIBUTOR/PRESENTER

1. National Symposium on "Current Trends in Plant Physiology and Biochemistry" at Central University of Hyderabad. 29-31 Jan. 1998.
2. Embryo germination of *Fagopyrum esculatum* using embryo culture technique: A conservational approach. In: National Seminar on Biodiversity Conservation and Environmental Implications in Himalayan Perspectives. 12-13 October, 2008 at Govt. P. G. College Gopeshwar Chamoli, Uttarakhand.
3. Soyabeen seed quality evaluation by Physical Purity Standard: germination and seed vigour test. In: National Seminar on Biodiversity Conservation and Environmental Implications in Himalayan Perspectives. 12-13 October, 2008 at Govt. P. G. College Gopeshwar Chamoli, Uttarakhand.
4. National Seminar on Resources Environment and Development of the Indian Himalaya: Issues and Strategies for Sustainable Development organized by Department of Geography, H.N.B. Garhwal Central University, Srinagar Garhwal Uttarakhand, 02-04 November 2011.

5. National Seed Congress 2012. Quality Seed for food security. Organized by National Seed Research and Training Centre, Varanasi and Haryana State Seed Certification Agency, Panchkula. January 23-25, 2012. (Poster Presentation: Need for the development of quality and testing protocols for medicinal plant seeds)

TRAINING PROGRAMMS/SEMINAR/WORKSHOP

1. Adventure and Ecology Awareness Programme organized by National Adventure Foundation and University Grant Commission, 6-8 Feb. 1994.
2. National Seminar on Environmental Management in Context of Ongoing Regional Development in The Himalaya. Sponsored by Directorate of Environment, Govt. Of Uttar Pradesh, Organized by Department of Geography, HNB Garhwal University, Srinagar Garhwal. Feb. 22-23, 1999.
3. Uttaranchal Main Jari Booti Ka Vikash: Karyshala avam Pradarshani, U.P. Administrative Training Institute, Nainital, 17-19 May, 1998.
4. Two days state level workshop on Conservation and Combined Management of Jari Booti in Uttarakhand organized by Vaniki avam Van Panchayat Prashikshan Sansthan, Haldwani, Uttarakhand, 22-23 April, 2001.
5. Study Cum Observation Visit of Experts of Medicinal and Aromatic Plants from Bhutan, Nepal and India, Sponsored by Asia Pacific Regional Bureau, UNESCO, New Delhi, 21- 26 August, 2003.
6. Participation in workshop on Intellectual Property Rights and Patent Awareness, jointly Organized by HNB Garhwal University and UCOST Dehradun, Supported by TIFAC (Technology Information, Forecasting and Assessment Council) DST Govt. Of India, New Delhi on March 28, 2012.

Workshop Organize:

Jointly Organised workshop along with DIC Chamoli and deliver a lecture on Culinary Herbs, 2019.

One day workshop on Environmental Awareness and Solid Waste Management in collaboration with Govind National Park Purola Uttarkashi on 08 March 2022.

Two days workshop on Agri Entrepreneurship (Hands on training on Mushroom cultivation and bee keeping) in coloboration with Plantica –Indian Academy of Rural Development Dehradun, 20-21 May 2022.

REFRESHER CUM TRAINING PROGRAMME.

1. Refresher cum training course on "Plant Tissue Culture and Plant Biotechnology at Thapar Institute of Engineering and Technology (TIET), Patiala 15-21 Jan, 2007. Sponsored by State Biotechnology Programme, Govt. of Uttarakhand",
 - Refresher cum training course on "Plant Tissue Culture and Plant Biotechnology at IIT Roorkee, Uttarakhand, 2011. Sponsored by State Biotechnology Programme, Govt. of Uttarakhand",

Training of Trainers (TOT) for Teachers (Under TLC project), organized by National Institute of Technical Teachers' Training and Research, Bhopal at Government post graduate college (Sridev Suman Uttarakhand University Campus) Gopeshwar (Chamoli), Uttarakhand from 02/03/2020 to 06/03/2020

Participated as an advisor in the WWF supported project related with medicinal plant survey, training, and domestication at Uttarkashi District organized by Nature and People, New Delhi.

Designed Informative Posters to Medicinal Plants Cultivation, Marketing, Regulations and entrepreneurship accompanied by Nature and People, New Delhi funded by National Medicinal Plant Board , New Delhi.

Hindi Translation of two books related to medicinal plants and natural resources.

Supervision of Bhutanese participants in training programme on Medicinal Plant Cultivation organized by HAPPRC, HNB Garhwal University and sponsored by Bhutan Government.

Worked as Consultant on medicinal plants cultivation, extension and other related issues to Forest Department, Horticulture Department, All India Ex-Soldier League Delhi, Ayush and NMPB sponsored projects and some Non Govt. Organizations.

Invited to deliver lecture on the workshops “Medicinal plants Cultivation, Marketing and Value addition on 28 Mar, 2008 organized by Bhesaj Vikas Ekai (Horticulture Department), Muni Ki Reti, Tehri Garhwal, Uttarakhand.

Guest lecture to farmers on Medicinal Plant Conservation and Domestication at Trijuginarayan, Rudraprayag, organized by GBPIHED, Garhwal Unit, Srinagar Garhwal Uttarakhand.

Guest lecture on Organic Farming and Composting organized by UPASAK, Gopeshwar, Chamoli, Uttarakhand.

Developed Nav Grah Vatika and Botanical Garden at GPGC Gopeshwar, Chamoli, 2020.

BOOK PUBLISHED

HEMLATA BISHT, VINAY PRAKASH AND RUCHIKA SHARMA (2020): A REFERENCE BOOK: Plant Science Research Journals. ASIN:B087MVWSPH

https://www.amazon.in/dp/B087MVWSPH/ref=cm_sw_r_apan_98ZJSJFX9YW2PRZZQ4KN

HOBBIES AND INTRESTS

- **Trekking**
- **Swimming**

I hereby declare that the information given above is true and to the best of my knowledge.

(VINAY PRAKASH)