

Professor (Dr.) B. P. Nautiyal

Dept. of Plantation, Spices, Medicinal & Aromatic Crops
College of Horticulture
VCSG, Uttarakhand University of Horticulture & Forestry
Bharsar, Pauri Garhwal



Prof. B.P. Nautiyal completed his master and Ph. D. degree in Botany (with specialization in ethnobotany and biomass and productivity of alpine vegetation) from H.N.B. Garhwal University Srinagar, Garhwal. He started his carrier as Project Scientist in High Altitude Plant Physiology Research Centre, HNB Garhwal University and thereafter, started working on medicinal and aromatic plants of high-altitude region. He worked extensively on ecology, eco-physiology and cultivation aspects of *Picrorrhiza kurroa*, *Rheum emodi*, *Aconites*, *Nardostachys jatamasi*, *Lilium polyphyllum* and several other important medicinal plants of Himalaya and his work got wide appreciation and cultivation of these wild species became possible. He was awarded Pool Scientist, CSIR in 2002 and Young Scientist (DST) Fellowship in 2005 and worked incessantly on MAPs of alpine region. Thereafter, he joined Mizoram Central University, Aizawl as Reader in 2007 and worked there as Associate Professor from 2010-2012, Head and Professor during 2012-2014 in the department of Horticulture, Aromatic and Medicinal Plants (HAMP). During his tenure in Mizoram University, he worked on spatial planning for the development of Agro-horticulture sector in Mizoram, R&D work on banana and other fruit crops as well on *Cinnamomum verum* for the evaluation of germplasm and essential oil contents. He joined UHF Bharsar in June 2014 and has served university as Dean, College of Horticulture, Finance Comptroller, Director Research and OIC of other centres, Director, IMAP of the university. Presently he is working as professor and director of the Placement & Alumni Cell, VCSG UHF Bharsar. Prof. Nautiyal so far has published more than 200 research papers in international and national journals of repute and many articles in newspapers and magazines. Beside he is author/co-author of 9 books on different aspects of botany, medicinal plants and horticulture and 5 practical manuals. He also has published 3 Indian patents for process of hepatoprotective red wine and integrated cultivation system for *P.kurroa* etc. His book on “*Agro Techniques of high altitude medicinal and aromatic plants*” gained worldwide attention. To his credit, 12 students has been awarded Ph.D. degree under his supervision on various aspects such as forest ecology, alpine ecology and eco-physiology, taxonomy and ethnobotany, traditional medicinal knowledge, cultivation of MAPs, integrated nutrient management of fruit crops etc and > 100 M.Sc. thesis. Besides, 6 students are currently pursuing for Ph.D. degree under his supervision. He was member of Editorial Boards of *Journal of Applied Research on Medicinal and Aromatic Plants* and *Trends in Horticulture*. Prof. Nautiyal is a member of academic bodies of several universities and institutions and has served as a chairman /member of MAP Screening Committee, Mizoram and Public Service Commission of several states and national institutes.

Research Interests/ Specialization

- Ethnobotany, Pharmacognosy, Traditional Medicinal System
- Ecophysiology and Production Technology of MAPs and Fruit crops.

Education

Sr. No.	Examination	University/Board	Main Subject	Year of Passing
1	High School	UP Board	Bio, Sci, Math, English, Hindi	1985
2.	Intermediate	UP Board	Bio, Chem., Phy, English, Hindi	1987
3.	B.Sc.	HNBGU	Botany, Chemistry, Zoology	1990
4.	B.Ed	HNBGU	Edu Philo., Psy, Sci & Math Teaching	1991
5.	M.Sc.	HNBGU	Botany (Specialization-Ethnobotany)	1993
6.	Ph.D.	HNBGU	Botany (Ethnobotany & Productivity parameters and nutrient cycles in alpine)	1997

- **Recent Publications**

(Published Papers in Referred/Journals notified by UGC) recent 5 years/ 5 Papers

- **Work History**

Academic Experience			
Duration (From-To)	Post	Organization	Nature
1/06/2014 to till date (12 years)	Professor	Dept. of PSMAP, College of Horticulture, VCSG UHF Bharsar	Permanent
6.7.2012 to 30.05.2014 (1 .10 years)	Professor	Dept. of Horticulture & MAP, Mizoram Central University, Aizawl	Permanent
1 st Feb., 2010 to 20 July, 2012 (2.4 years)	Associate Professor	Dept. of Horticulture & MAP, Mizoram Central University, Aizawl	Permanent
21 st (February, 2007 to 1 st Feb., 2010) (3 years)	Reader	Dept. of Horticulture & MAP, Mizoram Central University, Aizawl	Permanent

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Sr.No.	Title of Paper	Journal	ISSN No.	Volume No.	Year Of Publications
1	Ajay Hemdan, R. S. Chauhan, S. C. Pant · Hansveer Chahal, Prabhat Kumar, B. P. Nautiyal . Variability and heritability for yield and yield attributing characters in an endangered medicinal herb <i>Picrorhiza kurroa</i> Royle ex Benth under cultivation in Bharsar, Uttarakhand, Western Himalaya, India.	<i>Genet Resour Crop Evol</i>	-	https://doi.org/10.1007/s10722-025-02429-5 .	2025
2.	Attri, D.C., A. Bahukhandi, Trivedi, V., R.S. Chauhan, M.C. Nautiyal and B.P. Nautiyal . 2024. Variation in the Essential Oil Composition in Leaves (Fresh & Dried) of <i>Cinnamomum tamala</i> (Indian Bay Leaf) Cultivated in Western Himalaya.	<i>Natl. Acad. Sci. Lett</i>	-	http128s://doi.org/10.1007/s40009-024-01416-1 .	2024
3	Chauhan, R.S., Tewari, D., Nautiyal, B. P. , Rana, V.S. and Tava A. Essential oil composition of rhizomes of <i>Valeriana wallichii</i> DC. grown in temperate zone, Uttarakhand, India.	<i>J Essent. Oil Plant Composition</i> 1: 14-19	-	1: 14-19	2022
4	Sudheer, Chandra, B.P. Nautiyal M.C. Nautiyal . Effect of climate change on Aconitum species 2022	<i>Industrial Crops and Products</i> , <i>186115277</i>	-	<i>186115277</i>	2022
5	Attri, D C., M.C. Nautiyal, V.K. Bisht, B.P. Nautiyal . A. Bahukhandi V.L. Trivedi and J Sati. HPTLC Fingerprinting of Cultivated <i>Picrorhiza kurroa</i> Accessions in Uttarakhand, Western Himalaya.	<i>Proceeding of National Academy of Sciences, Biological Sciences</i>	-	91 821-828	2021

Administrative Experience			
Duration	Post	Organization	Nature
1 year	Director Placement	VCSG UUHF Bharsar	Administration
8 years	Dean	COH, VCSG UUHF Bharsar	Administration, Teaching & R&D
4.5 years	Registrar	VCSG UUHF Bharsar	Administration
5.9 years	Director	IMAP, VCSG UUHF	Administration, R&D

Administrative Experience			
Duration	Post	Organization	Nature
2.10 years	Finance Comptroller	VCSG UUHF Bharsar	Administration
1.7 years	Director Research	VCSG UUHF Bharsar	R&D work
3 years	Head of the Department	Dept. of Horticulture, Aromatic & Medicinal Plants (HAMP), Mizoram Central University, Aizawl	Administration, Teaching & R&D

- [Thesis Supervision](#) (> 100 PG students; 11 Ph.D. students)

Student (s)	Degree	Title	Year	Awarded by
Smriti Anthwal	Ph.D.	<i>Structure and function of some temperate grazing lands in Garhwal Himalaya with assessment of diversity and dominance pattern</i>	2005	HNBGU
Seema Semwal	Ph.D.	<i>Studies on phytosociology, diversity patterns and competition along an altitudinal gradient in a part of lesser Himalaya in Garhwal, Uttaranchal</i>	2006	HNBGU
Rajiv Vashistha	Ph.D.	<i>Ecophysiology and agrotechnology of two important Himalayan herbs – Angelica glauca Edgew. and Angelica archangelica Linn</i>	2007	HNBGU
Neelum Rawat	Ph.D.	<i>Assessment of productivity, rate of decomposition and nutrient cycling of an alpine grazingland in Western Himalaya</i>	2010	HNBGU
Poonam Bisht	Ph.D.	<i>Ecophysiology of Two Polygonatum Species in Garhwal Himalaya.</i>	2010	HNBGU
Anurag Dhyani	Ph.D.	<i>Ecophysiology, Multiplication and Domestication of a Critically Endangered Medicinal Herb, Lilium polyphyllum D.Don Ex Royle of North west Himalaya</i>	2011	HNBGU
Vinod Bish	Ph.D.	<i>“Phenology & Litter Decomposition Rate of Timberline Vegetation in North west Himalaya</i>	2011	HNBGU
T.K. Hazarika	Ph.D.	<i>Standardization of INM Packages for Growth, Yield and Quality of Banana cv.</i>	2011	MZU

Student (s)	Degree	Title	Year	Awarded by
		<i>Grand Naine under Mizoram Condition.</i> Mizoram University, Aizawl.		
Gunjan Sharma	Ph.D.	<i>Resource Assessment, variability and Seed Viability of Cinnamomum tamala (Nees & Eberm.)</i>	2012	HNBGU
Mr. Lalnunsiamia Colney	Ph.D.	<i>Spatial Planning of Sustainable Agro-Horticulture Development using Remote Sensing Techniques</i>	2014	MZU
Kailash Chandra	Ph.D.	<i>Floristic Diversity and Ethnobotany of Rudraprayag District of Uttarakhand</i>	2014	HNBGU

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Awards/ Achievements	Organization	Year
Pool Scientist	CSIR, Govt of India New Delhi	2002-2005
Young Scientist	DST, Govt of India, New Delhi	

Publications:	
Total number of Research Papers	
Research papers published in international /national journals	150
Patents (published)	03
Papers presented in various conferences/symposium	15
Books	09
Book chapters	21
Review papers	02
Lead papers	-
Popular articles	30
Technical bulletins	08
Souvenir	03
Manuals	05