

BIODATA SUMMARY



Prof. VIJAY KANT PUROHIT

DATE OF BIRTH: 01/07/1974

D. Phil. (2003) Plant Physiology (WORK ON PLANT TISSUE CULTURE AND OTHER CONVENTIONAL PROPAGATION METHODS)

M. Sc. (1996) Botany

B. Sc. (1994) Botany, Zoology, Forestry

RESEARCH AND DEVELOPMENTAL EXPERIENCE AFTER POST-DOCTORAL: 20 years including **14** years of teaching

Worked as:

Fixed/Contact

Project Fellow (7/5/97 -16/9/2001)

Project Technician (18/9/2001-17/11/2003)

Research Associate (18/11/2003-31/12/2006)

Coordination Officer (1/1/2007-31/3/2008)

Permanent

Senior Scientific Officer (1/4/2008-31/5/2015)

Associate Professor (D.P.) (1/6/2015- 30/9/2015)

Senior Scientific Officer (1/10/2015-1/6/2023)

Associate Professor (2/6/2023- Till Date)

Emploee Code - 3392

Orcid id-

<https://orcid.org/0000-0001-8811-6208>

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SPECIALIZATION

Conservation biology (Physiology/Plant propagation)

Presently working on promotion of Propagation & Conservation of Medicinal and Aromatic Plants

PUBLICATIONS

Published research papers: **95** (Papers with Impact factor and ISSN: **55**; Papers with only ISSN: **35**)

Papers published as first author: **25**

Papers published as second author: **18**

Papers published as third author: **9**

Papers published as fourth author: **13**

Papers published as fifth author or more: **18**

Published chapters in edited Book/Proceedings: **10** (Chapter in Books with ISBN: **8**; Chapter in Books without ISBN: **2**)

Published popular articles: **14**

Published abstracts: **27**

Published Technology training manuals: **3**

Workshop/Seminars attended (National): **31**

Workshop/Seminars attended (International): **02**

Media released: **40**

Papers/Chapter Communicated:

Workshops/Seminars/Trainings Conducted: **24**

Invited Lectures: **42**

BOOK AUTHORED/Published: **05**

Overseas Visits: Singapore (17-20 March 2013), Nepal (13-20 July 2014), Nepal (21-22 February, 2017)

Members of Scientific Societies: Global Science and Technology Forum (GSTF)

Student supervised for dissertation work: 14

Ph.D. Supervised:- 03 (01 from Kumaun University, Nainital, 01 from IFTM, University, Moradabad, U.P. and 01 from HNBGU, Srinagar, Garhwal)

Ph.D. supervision going on :- (Supervisor – 03, Co-supervisor-03)

Project Completed: 014 (09 as PI, 04 as Co-PI & 01 as PI-II)

Project handling at present: 05 (PI-04, Co-PI-01)

Total fund generated through R&D projects till date (sanctioned, Completed & running): Rupees 6.46 crore

AWARDS/ PRIZE

- Uttarakhand Herbal Expo-Prize **2005**: Represented GB Pant Institute of Himalayan Environment & Development with a team and received **third prize** for excellent research and development contribution in the area of medicinal plants cultivation and conservation by Institute (Jointly received with R. K. Maikhuri, **V.K. Purohit**, R.K. Agnihotri and Arvind Bhatt).
- Received Certificate of "**Honour**" from the Padam Sri Vaidh Rajesh Koteja, Secretary, AYUSH, National Medicinal Plants Board (NMPB), Govt. of India in the field of conservation and promotion of medicinal and aromatic plants cultivation in Uttarakhand (**22/1/2020**).
- Received Certificate of "**Giri Ganga Gaurav Samaan-2023**" in the field of **nature conservation** from the Maiti Sanstha of Uttarakhand on **30 October 2023** by the hand of Prof. Anapurna Nautiyal, Hon'ble Vice Chancellor, HNBGU, Dr. Sanjay Kumar, Chairman, Agriculture Scientist Recruitment Board, Govt. of India and Padam Sri Kalyan Singh Rawat, Secretary, Maiti Sanstha, Uttarakhand.
- Received certificate of "**Appreciation Award**" during UCOST sponsored National Seminar on Cultivation, Conservation and Sustainable Utilization of Medicinal Plants in Uttarakhand and Delivered Talk on Cultivation of Threatened Medicinal plants. Organised by Department of Botany, DBS (PG) College, Dehradun (**17 February 2025**).
- Received Certificate of "**Gaura Devi Samaan – 2025**" in the field of **nature conservation** from the Jandesh Saamajik Sangthan ewam Gaura Devi Paryavaran ewam Prakriti Prayatan Mela Samiti, Urgam, Joshimath/Jotirmath, Uttarakhand on the occasion of **World Environment Day (5 June 2025)** by the hand of Smt. Ritu Khanduri Bhushan, Hon'ble Speaker of Uttarakhand's State Legislative Assembly, Uttarakhand Govt. Dehradun.
- Received Certificate of "**Appreciation/Award of Honour**" from Non government organization Molyar Resource Foundation, New Delhi during the National seminar on Climate Change Impact on Livelihood and their Sustainable Solution. Organised by Molyar Resource Foundation, New Delhi and Department of Rural Technology, HNB Garhwal University, Srinagar (Garhwal), Uttarakhand (**19 May 2025**).
- Received Certificate of "**Appreciation**" from Dabur India Limited in **recognition of outstanding contribution to medicinal plant cultivation** at Jiwanti Research Centre, Dineshpur, near Rudrapur, Udham Singh Nagar, Uttarakhand on 10.01.2026.
- Received Certificate of "**Samriddh Samman – 2026**" in the field of **environment conservation** from organization Samriddh, Paithani, Pauri Garhwal on 25.01.2026.
- Received Certificate of "**Appreciation**" from Saswat Dham Lachmoli, Tehri Garhwal on **15.02.2026** by the hand of Swami Styannand Ji Maharaj and Swami Adwitanand ji Maharaj in the field of Long term public service and immediate public concern.

EXPERTISE

Plants propagation and cultivation, strengthening and handling of laboratory infrastructure and equipments, trainings, technology demonstration, community mobilization, extension research and events management. Infrastructure development, project formulations,

List of significant publications

Papers

1. **Purohit, V. K.**, Dobhal, P., Chauhan, J., Mengwal, B. S., Nautiyal, M. C., Nautiyal, A. R., ... & Chandra, S. (2026). Enhancing Livelihoods and Conservation: A Decade-Long Analysis of Medicinal Plant Cultivation in the Indian Himalayas. *Environmental and Sustainability Indicators*, 101313. IF 5.9, Indexed in Scopus, Web of Science (SCIE).
2. Nautiyal, P., Trivedi, V. L., **Purohit, V. K.**, & Nautiyal, M. C. (2026). Integrated sustainability assessment of hydroponic, aeroponic, and geoponic systems for *Acorus calamus* cultivation: A life cycle and techno-economic analysis. *Journal of Cleaner Production*, 562, 148392. IF 10.7, Indexed in Scopus, Web of Science (SCIE).
3. Vijay Laxmi Trivedi, Pallavi Sati, Sudeep Chandra, **Vijay Kant Purohit**, Babita Patni, Pradeep Dobhal (2026). Biochemical changes in photosynthetic pigments and phenolic compounds in *Cinnamomum tamala* under whitefly infestation. *Phytoparasitica*, 54:58. PP 1-8, <https://doi.org/10.1007/s12600-026-01388-6>. IF 1.5. Scopus indexed Springer Nature Journals.
4. Abhishek Jamlaki, Kuldeep Singh, Vijay Laxmi Trivedi, Ankit Singh, **Vijay Kant Purohit**, Abhimanyu Singh & M. C. Nautiyal (2026) Traditional medicinal plants used in Rudraprayag district, Uttarakhand, India: documentation of knowledge in peril. *Plant Biosystems*, **160**, 139. <https://doi.org/10.1007/s44473-026-00131-7>. IF 1.3. Indexed in Web of Science (SCIE), Scopus.
5. Pallavi Nautiyal, Sachin Dimri b, Anjali Mamgain, Vijaylaxmi Trivedi, **Vijay Kant Purohit** and M.C. Nautiyal (2026) Drying method-dependent metabolomic shifts in *Withania somnifera*. *Biochemical Systematics and Ecology* (127), 105245. ISSN-3051978, IF-2.0, Scopus indexed.
6. Aman Joshi, **Vijay Kant Purohit**, Sudeep Chandra Semwal and Nivedita Rawat (2025). *Angelica glauca*: A comprehensive review of ethnobotanical significance and conservation strategies. *International Journal of Research in Agronomy* 8(7): 1133-1140. E-ISSN: 2618-0618, P-ISSN: 2618-060X. DOI: <https://www.doi.org/10.33545/2618060X.2025.v8.i7o.3349>. Semantic scholar & Google Scholar Indexed.
7. **Vijay Kant Purohit**, Rakesh Kumar Maikhuri, Rajeev Ranjan Kumar, Nitin Negi, Jaidev Chauhan, Pradeep Dobhal, Babita Patni, Vijaylaxmi Trivedi & Vaishali Chandola (2025). Establishment of an efficient in vitro regeneration protocol and successful acclimatization of *sauromatum diversifolium* (Wall. ex Schoott) Cusimano & Hett. *Vegetos, An International Journal of Plant Reserach and Biotechnology*. <https://doi.org/10.1007/s42535-025-01494-6>. IF. 1.2. Scopus indexed.
8. Negi, Rajpal Singh, **Purohit, V. K.**, Maikhuri, R. K., Nautiyal, Vinod, Chandra, Subhash, Rawat, Lakshpat Singh, Nautiyal, M. C., Chandra, Sudeep and Singh, Ravindra (2025). Biocultural and nutritional significance of *Sauromatum diversifolium* in Central Himalayan communities, India. *Biodiversitas Journal of Biological Diversity*, volume 26 (8), 4023-4034. ISSN: 1412-033X. DOI: <https://doi.org/10.13057/biodiv/d260831>. Scopus indexed.
9. Anita Sati, **Vijay Kant Purohit**, M C Sati (2025) Millets for Livelihood and Environmental Sustainability: An Assessment of Millets Production and Productivity in Hill Districts of Uttarakhand. *J. Mountain Res.* P-ISSN: 0974-3030, E-ISSN: 2582-5011 DOI: <https://doi.org/10.51220/jmr.v20-i1.41> Vol. 20(1), 379-387.
10. Parkash, V., Kumar, V., Gaur, A., Chirag, H., Thakur, A., & **Purohit, V.K.** (2025) Chemical composition and antifungal activity of rhizomatous essential oil of cultivated *Angelica glauca* Edgew.: an endangered and medicinally valuable plant species of Northwest Himalayas. *Natural Product Research*, 1-7. <https://doi.org/10.1080/14786419.2025.2513040>. IF : 2.1. Scopus indexed.
11. Chauhan J, **Purohit VK**, Patni B, Charles B, Prasad P. (2025) Impact of climate change on the distribution range and niche dynamics of Himalayan Aconites: a highly important medicinal plant species of the higher Himalayan range. *Environ Monit Assess.* Apr 1;197(4):496. doi: 10.1007/s10661-025-13848-3. PMID: 40167816. ISSN: 0167-6369, IF : 2.9. Scopus indexed.
12. Pallavi Sati, Vaishali Chandola, Sudeep Chandra, Vijay Laxmi Trivedi, **Vijay Kant Purohit**, M.C. Nautiyal (2025) Global environmental change mediated response of wetland plants: Evidence from past decades. *Science of the Total Environment*. Volume 966. ISSN 00489697, 18791026 <https://doi.org/10.1016/j.scitotenv.2025.178668>. Impact Factor 8.2. Scopus Indexed.
13. Vikram S. Negi, Shinnay Thakur, Ravi Pathak, K.C. Sekar, **V.K. Purohit**, Zishan Ahmad Wani (2025) Treeline structure and regeneration pattern in protected and non protected areas, Indian Western Himalaya. *Trees, Forests and Pople*. <https://doi.org/10.1016/j.tfp.2025.100783>. IF – 2.7. Scopus Indexed.
14. Divyansh Panthari, Kumud Saklani, Subhash Chandra, Pradyumna Ghosal, Sarla Saklani and **Vijay Kant Purohit** (2024) Exploring Swertia : Ethnobotanical insights, Medicinal Potential and conservation strategies. *Afr.*

15. Kuldeep Joshi, Basant Singh, Aseesh Pandey, **Vijay Kant Purohit** & Indra D. Bhatt (2024) Evaluating *Paeonia emodi* propagation protocols by seed and root cuttings and phytochemical analysis of the plants. *Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology* (Official Journal of the Societa Botanica Italiana). <https://doi.org/10.1080/11263504.2024.2434263>, ISSN. 11263504, 17245575.IF – 2.0. Scopus Indexed.
16. Pradeep Dobhal, **V.K. Purohit**, Sudeep Chandra, P. Prasad, M.C. Nautiyal (2024). Nutrient Dynamics and Growth Responses of *Angelica glauca* Edgew. to Elevated CO₂ and Temperature: A Three –Year Field Study. *Journal of Soil Science and Plant Nutrition* (<https://10.1007/s42729-024-02044-w>). ISSN 0718-9516 (electronic), IF-3.7, Scopus Indexed.
17. Parul Singhal, Prabhakar Semwal, Ankit Singh and **V.K. Purohit** (2024). Ethnoveterinary plants of Renuka tehsil in Sirmour district of Himachal Pradesh (India). *Ethnobotany Research and Applications*, 29, 1–22. Retrieved from <https://ethnobotanyjournal.org/index.php/era/article/view/5599>. ISSN 15473465 (Scopus Indexed).
18. Rakesh Kumar Maikhuri, Ajay Maletha, Ravindra Singh, Girish Bhatt, Sunil Agarwal, Shalini Dhyani, Sunil Nautiyal, Prakash Chandra Phondani, Lakshpat Singh Rawat, Priyanka Badoni, Laxman Singh Kandari, Abhishek Srivastava, Rama Maikhuri, Bhagwati Prasad Chamola, Rajeev Lochan Semwal, **Vijay Kant Purohit** and Shankar Singh (2024) Traditional health care systems and immunity boosting: exploring plant based indigenous knowledge systems amidst the COVID-19 pandemic. *Discover Plants*, 1:5. <https://doi.org/10.1007/s44372-024-00005-2>. **Electronic ISSN 3005-1207.**
19. Pradeep Dobhal, **Vijay Kant Purohit**, Jaidev Chauhan, Ajay Hemdan and Rajeev Ranjan Kumar, (2024) Land restoration and promotion of Alpine medicinal and aromatic plants: a practical approach in context of Himalaya of Uttarakhand, India. *CURRENT SCIENCE*, VOL. 126, NO. 11, Pp 1301-1303. ISSN 0011-3891. Impact Factor – 1.0.
20. Rajeev Ranjan Kumar, Jaidev Chauhan, Vaishali Chandola, **Vijay Kant Purohit**, P.Prasad, Indra Dutt Bhatt and Arun Jugran (2024) Genetic diversity assessment in medicinal herb *Swertia speciosa* (Wall. Ex.D.Don) of higher Himalayan region. *Vegetos, An International Journal of Plant Research and Biotechnology*. Vol...PP...ISSN 0970-4078. Impact Factor – 1.5.
21. Pradeep Dobhal, **Vijay Kant Purohit**, Sudeep Chandra, Sandeep Rawat, P. Prasad, Ujjwal Bhandari, Vijay Laxmi Trivedi, M.C. Nautiyal (2024) Climate induced changes in essential oil production and terpene composition in alpine aromatic plants. *Plant Stress* 12 (2024) <https://dot.org/10.1016/j.stress.2024.100445>. Online ISSN:2667-064X. Impact Factor 5.0.
22. Sudeep Chandra, Vaisali Chandola, Germani Concenco, Anant Ram Nautiyal, Mohan Chandra Nautiyal, Lakshpat Singh Rawat and **Vijay Kant Purohit** (2024) Scoping the allelopathic potential of *Elsholtzia strobilifera* for managing Himalayan Knotweed *Koenigia polystachya*, an Invasive species in Alpine Ecosystems. *Folia Geobotanica*. <https://doi.org/10.1007/s12224-024-09446-9>. Electronic ISSN: 1874-9348 · Print ISSN: 1211-9520. Impact factor: 1.5.
23. Anmol, Jaidev Chauhan, **Vijay Kant Purohit**, Upendra Sharma (2024). Metabolomics integration with chemometrics for the quality assessment: A case study with commercially important Himalayan medicinal plant *Aconitum heterophyllum* Wall. *Microchemical Journal*. Vol. 199.PP.. ISSN: 0026-265X. Impact Factor – 4.8
24. Vaishali Chandola, Sudeep Chandra, A.R. Nautiyal, Rajeev Ranjan Kumar, **V.K. Purohit** (2023) TDZ and zeatin induced in vitro shooting for efficient vegetative propagation in *Trillium govanianum*, an endangered alpine medicinal herb. *Vegetos, An International Journal of Plant Research and Biotechnology*. Vol...PP...ISSN 0970-4078. Impact Factor – 1.5.
25. Chauhan Jaidev, **Purohit Vijay Kant**, Kumar Amandeep, Ranjan Rajeev Kumar, Dwivedi Himanshu, Kumar V. Vijaya, Prasad Pratti and Nautiyal Mohan Chandra (2023) Assessment of genetic diversity of *Aconitum heterophyllum* Wall.ex.Royal in Uttarakhand, India using ISSR markers. *Medicinal Plants - International Journal of Phytomedicines and Related Industries*. Vol. 15 (2): 419-424. Print ISSN : 0975-4261. Online ISSN : 0975-6892. Article DOI : 10.5958/0975-6892.2023.00042.4
26. Joshi, P., Prakash, P. & **Purohit, V.K.** (2023) Assessing anthropogenic pressure and threats on *Paeonia emodi* Wall. ex Royal habitats in Garhwal Himalaya. *Journal of Mountain Science*, 20, 810-820. <https://doi.org/10.1007/s11629-022-7551-y>. Impact Factor 2.7.
27. Sultan Zarkha, Dobal Pradeep and **Purohit Vijay Kant** (2022) *Picrorhiza kurroa* – An important medicinal plant of Himalaya: A review. *Bioinfolet – A quarterly journal of Life Science*, 19(4): 448-452. ISSN : 0973-1431 (print), 09776-4755 (online). Global Impact Factor – 0.876.
28. Sudeep Chandra, Vaishali Chandola, Zarkha Sultan, C.P. Singh, **V.K. Purohit**, B.P. Nautiyal and M.C. Nautiyal (2022) Climate change adversely affects the medicinal value of *Aconitum* species in Alpine region of Indian Himalaya. *Industrial Crops & Products* (on line available). Impact factor 6.449.

29. Sudeep Chandra, Vaishali Chandola, M.C. Nautiyal, David Gallacher, C.P. Singh and **V.K. Purohit** (2022) Varied multi-season response of *Aconitum heterophyllum* Wall. to increased CO₂ in the Indian Himalaya. *Journal of Applied Research on Medicinal and Aromatic Plants*. 29 (In press). (<https://doi.org/10.1016/j.jarmap.2021.100338>. Impact Factor 3.4).
30. Praveen Joshi, Prem Prakash, **Vijay Kant Purohit**, Arun Kumar Jugran and Brij Mohan Dimri (2022) Morphological and elemental parameters of Himalayan Peony (*Paeonia emodi*) a medicinal plant in relation to different forests of Garhwal Himalaya, India. *Indian Forester*, 148(1): 45-53. ISSN00194816 (DOI: 10.36808/if/2022/v148i1/157527, Global Impact Factor-0.666).
31. **Vijay Kant Purohit**, Pradeep Dobhal, Bhagat Singh Mengwal, Jaidev Chauhan, Mohan Chandra Nautiyal, Anant Ram Nautiyal and Pratti Prasad (2022) Seed source determines germination and survivability in *Saussurea obvallata* (DC.) Edgew an Endemic Herb of Indian Himalayan Region, India. *Ecology, Environment and Conservation*. Vol 28, Page No. 470-478. ISSN 0971-765X, Impact factor-0.45.
32. Pradeep Dobhal, Sudeep Semwal, Zarkha Sultan, Pratti Prasad and **Vijay Kant Purohit** (2021) Effect of elevated CO₂ and temperature on growth and biomass production of *Nardostachys jatamansi* DC. *Bioinfolet- A quarterly journal of Life Science* Vol. 18(4).: 486-489. ISSN : 0973-1431 (print), 09776-4755 (online). Global Impact Factor – 0.876.
33. Pradeep Dobhal, **Vijay Kant Purohit** and Jaidev Chauhan (2021) High frequency plant regeneration from fully mature shoot portion of *Nardostachys grandiflora* DC. *International Journal of Conservation Science*. Vol. 12 (3), pp 1053-1060 (ISSN : 2067-533X).
34. Patni, B., Bhattacharyya, M., kumari, A. and **Purohit V.K.** (2021) Alarming influence of climate change and compromising quality of medicinal plants. *Plant Physiology Reports* 2022 v.27 no.1 pp. 1-10. <https://doi.org/10.1007/s40502-021-00616-x>, ISSN2662253X.
35. Praveen Joshi, Prem Prakash and **Vijay K. Purohit** (2021) Seed germination and growth performance of *Paeonia emodi* Wall. ex Royle: Conservation and cultivation strategies. *Journal of Applied Research on Medicinal and Aromatic Plants*. 25,1-7 (<https://doi.org/10.1016/j.jarmap.2021.100338>. Impact Factor 3.4).
36. **Vijay Kant Purohit**, Praveen Joshi, Jaidev Chauhan and Prem Prakash (2021) *Paeonia emodi*: A threatened important medicinal plant of higher Himalayan region. *International Journal of Research-GRANTHAALAYA*, 9(8), 282-289. ISSN, 2350-0530 (online), 2394-3629 (Print).
37. **Vijay Kant Puroit** (2021) Is flow of tourist destroying health of forest and alpine meadows of higher Himalayan region : A case of Chopta Forest of Uttarakhand, India?. *Environmental Sciences and Ecology: Current Research (ESECR)*, Vol 2 (2), pp1-3.
38. Prem Prakash, Praveen Joshi, Vikram Singh Negi and **Vijay Kant Purohit** (2020) Ethnobotanical uses and bioprospecting of *Paeonia emodi* (Paeoniaceae) from garhwal Himalaya, India. *Journal of Economic and Taxonomic Botany*. Vol. 44, issues 1-4, pp 36-42 (ISSN: 0250-9768).
39. **Vijay Kant Purohit**, Jaidev Chauhan, Vishwapati Bhatt and Madan Singh Negi (2020) Bhamora: An Economically Important but Neglected Wild Edible Fruit from Himalaya. *Envis Newsletter on Himalayan Ecology*, Vol. 17(2): 4 (ISSN: 2277-900 (p), 2455-6823 (Online).
40. Jaidev Chauhan, **Vijay Kant Purohit** and Pradeep Dobhal (2020) Extending the reach of agriculture extension services by villagers of Pauri and Tehri Garhwal, Uttarakhand. *Envis Newsletter on Himalayan Ecology*, Vol. 17(2): 9 (ISSN: 2277-900 (p), 2455-6823 (Online).
41. Prem Prakash, Praveen Joshi and **Vijay Kant Purohit** (2020) Impact on Density of *Paeonia emodi* along Altitudinal Gradient in Garhwal Himalaya, India. *Applied Ecology and Environmental Sciences*, 8(5), 319-323. DOI: 10.12691/aees-8-5-20.
42. Sudeep Chandra, Vaishali Chandola, M.C. Nautiyal and **V.K. Purohit** (2020) Elevated CO₂ causes earlier flowering in an alpine medicinal herb *Aconitum heterophyllum* Wall. *Current Science*, Vol. 118 (11), 1650-1651 (Impact Factor-1.102.).
43. Jaidev Chauhan, **V.K. Purohit** and Ajaya Paliwal (2019) Correlation study and path analysis of Coriander (*Coriandrum sativum* L.) for yield and its attributes in mid hills of Uttarakhand. *International Journal of Pure and Applied Bioscience*. Vol. 7(2): 113-118 (ISSN: 2320-7051).
44. P.C. Phondani, I.D. Bhatt, R.K. Maikhuri, B.P. Kothari, A. Bhatt. **V.K. Purohit** and P. Joshi (2019) Exploring Floriculture Potential for Sustainable Livelihood of Subsistence Communities in Indian Himalayan Region. *National Academy of Science Letters*. Volume 42, Issue 1, pp 39–44 (Impact factor 0.649, ISSN: 0250-541X, print version ISSN: 2250-1754, electronic version).
45. Rajeev Ranjan Kumar, Vaishali Chandola, Jaidev Chauhan and V.K. Purohit (2019) Medicinal importance of *Swertia speciosa* (WALL D.DON): A Review. *Journal of Emerging Technologies and Innovative Research*. Vol. 6 (6)693-703 (ISSN 2349-5162).

- 46. V.K. Purohit**, B.S. Mengwal and M.C. Nautiyal (2018) *Aconitum heterophyllum* : Conservation and agro-techniques for commercial cultivation. *Envis Newsletter Himalayan Ecology*. Vol. 15(3): 4-5. ISSN: 2277-900 (p), 2455-6823 (Online).
 - 47. Praveen Joshi**, Prem Prakash, **V.K. Purohit** and Kuldeep Joshi (2018) Bioprospecting of *Paeonia Emodi* for Livelihood Enhancement in Western Himalaya, India. *Envis Bulletin Himalayan Ecology*, Vol. 26, 67-70 (ISSN 0971-7447 (P).
 - 48. Rajeev Ranjan Kumar**, **Vijay Kant Purohit**, P. Prasad and Anant Ram Nautiyal (2018) Efficient *In Vitro* Propagation Protocol of *Swertia chirayita* (Roxb. ex Fleming) Karsten: A Critically Endangered Medicinal Plant. *Natl. Acad. Sci. Lett.* Vol. 41, Issue 2, pp 123–127. <https://doi.org/10.1007/s40009-018-0624-3>.
 - 49. Praveen Joshi**, Prem Prakash, **V.K. Purohit** and V. Bahuguna (2017) *Paeonia emodi*: A review of multipurpose wild edible medicinal plant of Western Himalaya. *International Journal of Advanced Research (IJAR- Cross Ref. Indexed Journal)*. 5(12), 480-486. (ISSN 2320-5407A).
 - 50. Neeraj Baloni**, Manju Rawat, **V.K. Purohit** and B.S. Mengwal (2017) Effect of different concentration of IBA on rooting and sprouting performance of Pomegranate (*Punica granatum* L.) cuttings, CV Kandhari. *European Journal of Biomedical and Pharmaceutical Sciences*. Vol. 4 (1), 512-515 (ISSN 2349-8870).
 - 51. Purohit V.K.**, Nautiyal M. C., Nautiyal A. R. and Gairola K. C. (2016) Successful cultivation of highly valued and endangered medicinal herb Kutki (*Picrorrhiza kurooa*): A Case study from Ghesh village of Uttarakhand Himalaya. *Medicinal Plants - International Journal of Phytomedicines and Related Industries*. Vol. 8 (3): 207-212 (Print ISSN : 0975-4261, Online ISSN : 0975-6892).
 - 52. Keshav Chandra**, **Vijay Kant Purohit** and Harish Chandra Andola (2015) *Paris polyphylla* Smith: a medicinally important plant species is in high risk in Himalayan region. *Medicinal Plants - International Journal of Phytomedicines and Related Industries*. Vol 7 (4): 292-295 (Print ISSN : 0975-4261, Online ISSN : 0975-6892).
 - 53. Kumud Saklani**, Sandeep Singh, Vijay K. Purohit, P. Prasad and A. R. Nautiyal (2015) *In vitro* propagation of Rudraksha (*Elaeocarpus sphaericus* (Gaertn.) K. Schum): a biotechnological approach for conservation. *Physiology and Molecular Biology of Plants*, 21(4):611-15. doi: 10.1007/s12298-015-0316-0 (Impact Factor-2.391).
 - 54. Vijay Kant Purohit**, Harish Chandra Andola, Keshav Chandra Gairola, Deepti Tiwari, Yateesh Mohan Bahuguna and Kusum Arunachalam (2015) Essential Oil Constituents of *Angelica glauca* Edgew. Roots: An Endangered Species from Uttarakhand Himalaya (India). *National Academy of Science Letters*, 38 (5): 445–447, doi:10.1007/s40009-015-0395-z (ISSN 0250-541X).
 - 55. Sandeep Singh**, **Vijay K Purohit**, P Prasad and A R Nautiyal (2015) Micropropagation of *Valeriana wallichii* DC. (Indian Valerian) through nodes. *Indian Journal of Biotechnology*, Vol 14, pp 127-130. (Impact Factor : 0.510, ISSN: 0975-0967).
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8. **Dr. Vijay Kant Purohit** (2010) Aushadhiye padapo ke vikas se aatmnirbhar ho sakta hai Uttarakhand. *Smarika*, 77-78. Published by Parvatiye Patrakar Asociation, Uttarakhand.
9. Sunil Datt, **V. K. Purohit**, Ruchina Puri, P.Prasad, A. R. Nautiyal and Padma Nautiyal (2009) *Zanthoxylum armatum* D. C. (Toothache tree) needs biotechnological interventions for conservation. *Hima Paryavaran*, Vol 21 (1&2): 10-11.
10. R. K. Maikhuri, L. S. Rawat, Vikram S. Negi, **V. K. Purohit**, Deepak Dhyani and N.A. Farooquee (2007) Ecotourism in Nanda Devi Biosphere Reserve (NDBR): A Bottom up Experience. *Souvenir*, CMTHS, HNB, Garhwal University, Srinagar Garhwal, Uttarakhand, 9-10.
11. Maikhuri R.K., V.S. Negi, L.S. Rawat, **V.K. Purohit**, Shalini Misra, Deepak Dhyani, Divya Dangwal, Prakash Phondani, Chandan S. Negi, Abhay Bahuguna and Santosh Pant (2007) Glimpses of the Traditional Agriculture of Garhwal Himalaya. *Smarika "Nagar Darshan"* Nagar Palika Parishad Srinagar Garhwal.
12. **Purohit V. K.** (2007) Exploring Oaks: In the Himalayas. *Science Reporter*. 44(2): 24-25. ISSN : 0036-8512
13. Rana Lalit Kumar, Joshi R, **Purohit V. K.** Sati Mukesh and Maikhuri R. K. (2006) Thosh upshisth (Solid waste) padarth : Samashyai evem samadhan. *Paryavaran Mitre Magazine*.
14. **Purohit V. K.**, Phondani P. C. and Maikhuri R. K. (2006) Propagation of *Ginkgo biloba* Linn. : A oldest living tree species. *Hima Paryavaran*, Vol 18 (1): 13p.
15. **Purohit V. K.** & Bhatt V. P. (2005) Spice route: Cardamom could show the way to sustainable income generation. *Down To Earth*, 14 (4): 49p. (ISSN 0971-2879)
16. Rawat D. S., **Purohit V. K.**, Bisht D., Tripathi K., Joshi M., Nadeem M., Pandey S. and Bisht D. S. (2003) Rural Biotechnology Programme: A Mission to Empower Woman of Uttaranchal. *Hima Paryavaran*, 15 (1): 17-19.
17. **Purohit V.K.**, Nandi S.K., Palni L.M.S., Rikhari H. C. and Kumar A. (2000) Successful air layering in *Quercus glauca* shoots. *Hima Paryavaran*, 12 (2): 9-10.

Abstracts

1. **Vijay Kant Purohit***, Bhagat Singh Mengwal, Pradeep Dobhal and, Jaidev Chauhan (2020) Cultivation of High Altitude Medicinal and Aromatic Plants: A Key for Sustainable Development and Bioresource Conservation in Higher Himalayan Region (HHR) of India. P. 14. National e-Conference On 'Bioresources and Sustainable Livelihood of Rural India', Department of Botany, Nagaland University, Nagaland, September 28-29, 2020.
2. **Vijay Kant Purohit**, Bhagat Singh Mengwal, Pradeep Dobhal, Jaidev Chauhan, Mohan Chandra Nautiyal, Anant Ram Nautiyal and Prasad Pratti (2019) Cultivation of High Altitude Medicinal and Aromatic Plants : Present Status and Need to Take it Forward in Uttarakhand, India. P. 64. International Conference on "Conservation and sustainable use of high altitude medicinal and aromatic plants for the socio-economic development. Organized by Faculty of Biomedical Sciences, Uttarakhand Ayurved University, Dehradun (29-30 November 2019).
3. **Vijay Kant Purohit**, Jaidev Chauhan, Rajeev Ranjan Kumar & V.P. Bhatt (2019) The Bugyals: A Bio-Repository Under Peril, p. 93. "International conference on Contemporary Issues of Climate Change, Conservation of Biodiversity

and Natural Resources in Himalayan Environments”, organized by Department of Zoology, Government P.G. College New Tehri, Tehri Garhwal, Uttarakhand, India (**14-16 November 2019**).

4. Vijay Kant Purohit, Jaidev Chauhan, Pradeep Dobhal, Himanshu Diwedi, Bhagat Singh Mengwal, Yatish Mohan Bahuguna and Anant Ram Nautiyal (2019) Promotion of Integrated Farming Approach (IFA) in Hilly Areas: A Significance way of sustainable income to inhabitant. National Seminar on Agriculture Transformation and Rural Development in India: Issues, Challenges and Possibility, P.30. Organised by Department of Economics, HNBGU, Srinagar (Garhwal), **11-12 October 2019**.

5. Rajeev Ranjan Kumar, Vijay Kant Purohit, Yateesh Mohan Bahuguna, Keshav Chandra Gairola, P. Prasad & Anant Ram Nautiyal (2014) *In-vitro* propagation of *Swertia chirayita* (Roxb. ex Fleming) Karsten: A critically endangered medicinal herb of Himalayan region. National Conference on Environmental Constraints, Conservation and Resource Development of Medicinal Plants for Health & Societal Benefits". Jointly organized by Doon University, Dehradun, Society for Conservation and Resource Development of Medicinal Plants (SMP), Delhi, SSCE, Delhi and Professor H.S. Srivastava Foundation for Science and Society, Lucknow, **21-23 March, 2014** at Doon University, Dehradun.

6. Keshav Chandra Gairola, Rajeev Ranjan Kumar, Vijay Kant Purohit & Harish Chandra Andola (2014) *Paris polyphylla* Smith: A highly valued medicinal plant of higher Himalayan region needs attention on its propagation and conservation. National Conference on Environmental Constraints, Conservation and Resource Development of Medicinal Plants for Health & Societal Benefits". Jointly organized by Doon University, Dehradun, Society for Conservation and Resource Development of Medicinal Plants (SMP), Delhi, SSCE, Delhi and Professor H.S. Srivastava Foundation for Science and Society, Lucknow, **21-23 March, 2014** at Doon University, Dehradun.

7. Vijay Kant Purohit, Keshav Chandra Gairola, Yateesh Mohan Bahuguna, M.C. Nautiyal and A.R. Nautiyal (**2014**) Growth Performance of seedling of *Nardostachys jatamansi* (DC) under different microclimatic conditions in two different altitudes. National Conference on Environmental Constraints, Conservation and Resource Development of Medicinal Plants for Health & Societal Benefits". Jointly organized by Doon University, Dehradun, Society for Conservation and Resource Development of Medicinal Plants (SMP), Delhi, SSCE, Delhi and Professor H.S. Srivastava Foundation for Science and Society, Lucknow, **21-23 March, 2014** at Doon University, Dehradun.

8. Vijay Kant Purohit, P Prasad., Nautiyal M.C. Nautiyal A.R (**2013**) Propagation of highly important life saving herbs *Nardostachys grandiflora* DC. via conventional and biotechnological approaches. 3rd Annual International Conference on Advances in Biotechnology (Biotech 2013). Organized by Global Science and Technology Forum (GSTF), 18-19 March 2013, Singapore.

9. Vijay Kant Purohit, R.S. Chauhan, Harish C. Andola, P. Prasad, M.C. Nautiyal and A.R. Nautiyal (**2012**) Survival of life saving herbs *Nardostachys grandiflora* DC is in risk: A policy issue. National Workshop on Medicinal Plants – “Scientist, Grower and Industry Interaction” organized by society for Conservation and Resource Development of Medicinal plants, New Delhi at Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi, March 23, 2012.

10. Vijay Kant Purohit, Yateesh Mohan Bahuguna, Sandeep Singh, Keasav Chandra Gairola and Rajendra Singh Chauhan (**2011**) Is cultivation a feasible conservation approach for high altitude high value medicinal and aromatic plant? National conference on “Recent trend in environment and development” organized by society for environment and development (India), Rohini, New Delhi at High Altitude Plant Physiology Research Centre (HAPPRC), Srinagar (Garhwal), August 6-7, 2011.

11. K.C. Gairola, P. Prasad, A.R. Nautiyal and V.K. Purohit (**2011**) Biochemical and electrophoretic variation in different seed source of *Jatropha Curcus* (Linn.) from hill region of Uttarakhand. Green Chemistry Education: Necessity of a Sustainable Future” organized by UGC SAP, Department of Chemistry, HNB Garhwal University (A Central University) Srinagar (Garhwal) & Uttarakhand State Council for Science and Technology (UCOST), Dehradun, 22-23 March, 2011.

12. R.S. Chauhan, M.C. Nautiyal Y.M. Bahuguna and V.K. Purohit (**2011**) Domestication and analysis of *Hypericum Perforatum* L. for sustainable utilization. Green Chemistry Education: Necessity of a Sustainable Future” organized by UGC SAP, Department of Chemistry, HNB Garhwal University (A Central University) Srinagar (Garhwal) & Uttarakhand State Council for Science and Technology (UCOST), Dehradun, 22-23 March, 2011.

13. Negi Veneeta and Vijay Kant Purohit (**2010**) Waning populations of medicinal herbs in Himalayan region: Issues and priorities. Asian Herbal Show 2010 and An International Conference and Expo on Challenging and Emerging

Dimensions in Medicinal/Herbal Plants & Their Products: A Global Prospective. Organized by Society for conservation and Resource Development of Medicinal Plants, New Delhi at Chennai, India, 26-28 November.

14. Sandeep Singh, Sunil Raturi, **Vijay Kant Purohit**, P. Prasad and A.R. Nautiyal (2010) *Zanthoxylum armatum* DC : Conservation and propagation priorities. "2nd Rashtriya Yuva Vaigyanik Sammelan" organized by Uttarakhand State Council for Science and Technology (UCOST) and Doon University, Dehradun, 6-7 February.

15. **Purohit V.K.**, P. Prasad, M. C. Nautiyal and A. R. Nautiyal (2010) Medicinal and aromatic plants: A bioresource under high conservation priorities. "2nd Rashtriya Yuva Vaigyanik Sammelan" organized by Uttarakhand State Council for Science and Technology (UCOST) and Doon University, Dehradun, 6-7 February.

16. Bhatt V.P. and **Vijay K Purohit** (2009) *Cordyceps sinensis* (Berk) Sacc. Keera-Jari: an economic booster forest product from alpine meadows of Garhwal Himalaya" 4th Science Congress organized by Uttarakhand State Council for Science and Technology (UCOST) and GBPAU, Pantnagar, 10-12 November.

17. Negi Veneeta, **Vijay K. Purohit**, and Joytsana Sitling (2009) Trainings and Technology Intervention Makes a Difference? A case of medicinal plant cultivation. National Conference on Medicinal Plants of Himalayas: Traditional Uses and Conservation Issues. Organized by Society for conservation and Resource Development of Medicinal Plants, New Delhi and HAPPRC, HN Bahuguna Garhwal University, Srinagar (Garhwal), 19-21 February.

18. **Purohit V.K.**, Ruchina Puri, P. Prasad and A.R. Nautiyal (2008) *In vitro* Propagation of *Andrographis paniculata* (Burm.F) Nees: A king of bitters. National seminar on biodiversity conservation and its environmental implications in Himalayan perspectives. Organized by Govt. P.G. Collage Gopeshwar, Uttarakhand, 12-13 October.

19. Negi Veneeta, **Vijay K. Purohit**, V.P. Bhatt, Rajendra Koshiyari, Sanjay Saxena and Pratap Bhadur (2008) *Rhododendrons*: A key species for livelihood enhancement and biodiversity conservation. National seminar on biodiversity conservation and its environmental implications in Himalayan perspectives. Organized by Govt. P.G. Collage Gopeshwar, Uttarakhand, 12-13 October.

20. **Purohit V.K.**, G.D. Bhatt, Jyotsna Sitling¹ and Bhuwan Joshi (2007) Trainings & Technology intervention makes a difference? A case study of work load of women's: a back boon of hill agriculture. 2nd Science Congress organized by Uttarakhand State Council for Science and Technology (UCOST) and Kumaun University, Nainital, 10-12 November.

21. **Purohit, V. K.**, V. S. Negi, P. C. Phondani, R. K. Maikhuri, S. C. Joshi and L. S. Rawat (2006) Assessment of root formation in stem cuttings of *Spondias pinnata*: A lesser known bioresource for sustainable rural development. International Seminar on Forests, Forest Products and Services: Research, Development and Challenges Ahead, held at Department of Forestry, HNB Garhwal University, Srinagar Garhwal, Uttaranchal, India, 1st -3rd November.

22. Maikhuri R. K., Shalini Mishra, Divya Dangwal, **V. K. Purohit**, Santosh Pant, Chandan S. Negi, Deepak Dhyani and L. S. Rawat (2006) Management options for Nanda devi biosphere reserve for sustainable development of buffer zone village communities. International Seminar on Forests, Forest Products and Services: Research, Development and Challenges Ahead, held at Department of Forestry, HNB Garhwal University, Srinagar Garhwal, Uttaranchal, India, 1st - 3rd November.

23. **Purohit V. K.**, Phondani P. C., Dhyani D. and Maikhuri R. K (2006) *In vitro* responses of *Ginkgo biloba* Linn.: An oldest living tree species. National Symposium on *in vitro* regeneration and cloning technique, held at FRI, Dehradun, India, 12th – 14th October.

24. **Purohit V. K.**, Phondani P. C., Dhyani D. and Maikhuri R. K (2006) *In vitro* shoot regeneration in *Hippophae rhamnoides* from callus culture: A lesser known bioresource for sustainable rural development. National Symposium on *in vitro* regeneration and cloning technique, held at FRI, Dehradun, India, 12th – 14th October.

25. Maikhuri R. K. Rao K. S., **Purohit V. K.**, Dhyani D., Rawat L. S., Singh V. Chamoli K. P. (2006) Medicinal and Aromatic Plants (MAPs): Issues and priorities for cultivation and conservation in Uttaranchal. Workshop on less-known ethnomedicinal plants of Okhimath block, Uttaranchal : Their abundance, distribution and conservation issues, held at Okhimath, Distt. Rudraprayag, Uttaranchal, 22-24, June.

26. Purohit V. K., Tamta S., Palni L. M. S. and Nandi S. K. (2006) Propagation of central Himalayan oaks using conventional and biotechnological approaches. Uttarakhand Science Congress, 10th -11th November, Dehradun.

27. Purohit V.K., Tamta S. and Palni L.M.S. (1999) *In vitro* multiplication of *Quercus leucotrichophora* and *Q. glauca* Thunb.: Important Himalayan Oaks. National Symposium on the Role of Plant Tissue Culture in Biodiversity Conservation and Economic Development, held at GBPIHED, Kosi-Katarmal, 7-9 June, 1999.

Technology training manuals published

1. Maikhuri R. K., Rawat L. S., Negi V. S. **Purohit V. K.** and Rao K. S. (2006) Cost effective hill specific technologies and viable option for sustainable rural development, 40 p.
2. Maikhuri R. K., Negi V. S., Rawat L. S. **Purohit V. K.** and Rao K. S. (2006) Bioprospecting of wild edibles for sustainable livelihood, 32 p.
3. Rawat D. S., Joshi M., Bisht D. S., Nadeem M., Tripathi K., Bisht D., **Purohit V. K.**, Ole B. P., Pandey S., and Bag N. (2002) Kirshak Margdarshika: Aarthik evam Paryavaran Sambardhak Saral Takneekei (Anterrastriya Parvat Varse ke Uplaksh mei), Shiva Offset Printing Press, Dehradun, 72 p.

Research papers/book chapter/popular article accepted/revised/communicated

Workshop/Seminars/Conference/Training Programme attended

1. Participated in the National Symposium on “**Role of Plant Tissue Culture in Biodiversity Conservation and Economic Development 1999**” organized by G. B. Pant Institute of Himalayan Environment and Development (Poster).
2. Attended National Workshop on “**Himalayan biodiversity 2000: options for development**” organized by G. B. Pant Institute of Himalayan Environment and Development.
3. Attended Scientific Awareness Programme for “**Vigyan Ke Prati Ruchi Evam Jagriti Paida Kerna 2000**” (under National Council for Science & Technology Communication) organized by G. B. Pant Institute of Himalayan Environment and Development, Garhwal Unit, Srinagar Garhwal.
4. Attended Workshop on “**Developing medicinal plant sector in Uttarakhand-prospects and constraints in cultivation and marketing 2004**” organized by G. B. Pant Institute of Himalayan Environment and Development.
5. Attended in “**Patent Awareness**” Workshop 2004 organized by G. B. Pant Institute of Himalayan Environment and Development.
6. Attended workshop on “**Natural Resource Based Sustainable Rural Development in Himalaya** 21st – 23rd March 2005, organized by G. B. Pant Institute of Himalayan Environment and Development, Garhwal Unit, Srinagar Garhwal.
7. Attended workshop on “**less – known ethnomedicinal plants of Okhimath block, Uttarakhand – Their abundance, distribution and conservation issues**” 22-24 June 2006, organized by Department of Environmental Biology University of Delhi (Abstract).
8. Attended workshop on “**Gramin Mahilao ki Kirshi Takniki**” 20-21 June 2006, organized by Dasoli Gram Swaraja Mandal, Gopeshwar-Chamoli, Sponsored by Science and Technology Council, Govt. of Uttarakhand.
9. Attended workshop on “**Vision Document-2015 of the Institute**” 24 July 2006, organized by G. B. Pant Institute of Himalayan Environment and Development, Garhwal Unit, Srinagar Garhwal.
10. Participated in National Symposium of Biotechnology on “***in vitro* regeneration and cloning technique 2006**”, organized by Forest Research Institute, Dehradun, India (Abstracts).
11. Attended workshop on “**Public Hearing on Management of Forest Conflicts**” 22-23 April 2007, organized by Himalayan Community Forestry Center (HCFC), Lankadhar, Gairsain, Chamoli.
12. Attended “**Stakeholders workshop in Uttarakhand for Medicinal Plants Conservation & Capacity building project**” 28-29 April 2007, organized by Applied Environmental Research Foundation (AERF), Pune, India.

13. Attended "**Stakeholders Trainings on Kastekaro mei Grameen Takniki ke perti Jagrukta evem Aajeevika mei sudhar**" 5-7 June 2007, at Triyuginarayan District Rudraprayag, organized by G. B. Pant Institute of Himalayan Environment and Development, Garhwal Unit, Srinagar Garhwal.
14. Attended national seminar and workshop on "**Application of Remote Sensing and GIS in the Natural Resources Management, Sustainability and Uses**" 11-13 September 2008, organized by Department of Geology, HNB Garhwal University Srinagar (Garhwal).
15. Attended national seminar on "**Biodiversity Conservation and its Implications in Himalayan Perspectives**" 12-13 October 2008, organized by Department of Botany, Govt P.G. College Gopeshwar, Chamoli.
16. Attended national conference on "**Medicinal Plants of Himalayas: Traditional Uses and Conservation Issues**." Organized by Society for conservation and Resource Development of Medicinal Plants, New Delhi and HAPPRC, HN Bahuguna Garhwal University, Srinagar (Garhwal), 19-21 February, 2009.
17. Attended workshop and seminar on "**Improvement of Kuth and Kutki Value Chains**". Organized by Uttarakhand Regional Economic Development Programme (RED) and Herbal Research & Development Institute, Gopeshwar, 31st July-1st August 2009.
18. Attended Consultation Workshop on "**High Altitude Medicinal Plants**". Organized by HAPPRC, HNBGU, Srinagar (Garhwal) and HRDI, Gopeshwar, Chamoli, 3 November, 2009.
19. Participated in national workshop on "**Potential of Biodiversity Rich Community Conservation Areas in Uttarakhand**" organized by The Energy and Resources Institute (TERI) and Department of Forestry, HNB Garhwal University, Srinagar, Garhwal, 24-25th November 2009.
20. Attended seminar on "**Intellectual Property Rights**" organized by National Research Development Corporation (NRDC), New Delhi and Department of Business Management, HNB Garhwal University, Srinagar, Garhwal, 27th November 2009.
21. Attended "**4th Science Congress**" organized by Uttarakhand State Council for Science and Technology (UCOST) and GBPAU, Pantnagar, 10-12 November, 2009.
22. Attended International workshop on "**Mountain Biodiversity & Impacts of Climate Change with special reference to Himalayan Biodiversity Hotspot**" organized by G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora and International Centre for Integrated Mountain Development (ICIMOD), Nepal, 6-8 December, 2010.
23. Attended workshop on "**Green Chemistry Education: Necessity of a Sustainable Future**" organized by UGC SAP, Department of Chemistry, HNB Garhwal University (A Central University) Srinagar (Garhwal) & Uttarakhand State Council for Science and Technology (UCOST), Dehradun, 22-23 March, 2011.
24. Attended national conference on "**Recent Trend in Environment and Development**" organized by society for environment and development (India), Rohini, New Delhi at High Altitude Plant Physiology Research Centre (HAPPRC), Srinagar (Garhwal), August 6-7, 2011.
25. Attended national conference on "**Resources, Environment & Development of the Indian Himalaya : Issues and Strategies for Sustainable Development**" organized by department of Geography, Hemwati Nandan Bahuguna Garhwal University (A Central University), Srinagar (Garhwal), November 2-4, 2011.
26. Attended first faculty development program "**A workshop on Novel Research Ideas in Biotechnology–NIRB**" organized by Uttarakhand State Biotechnology Department (USBD) at GEU, Dehradun, December 23rd -24th 2011.
27. Attended National Workshop on "**Medicinal Plants – Scientist, Grower and Industry Interaction**" organized by society for Conservation and Resource Development of Medicinal plants, New Delhi at Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi, March 23, 2012.

28. Attended training programme on "**Science and Technology for Rural Society**" organized by Centre for Disaster Management, National Institute of Administrative Research, LBS National Academy of Administration, 20-31 August 2012, Mussoorie.
29. Attended a consultative meeting/workshop on "**Assessment of training needs and capacities of the concerning agencies in respect of threat assessment and CAMP exercise on a long term basis**" Organised by G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora in collaboration with Institute of Ayurveda and Integrative Medicine – Foundation for Revitalization of local health traditions (FRLHT), Bangalore, **27-28 December 2012**.
30. Attended 3rd Annual International Conference on Advances in Biotechnology (Biotech 2013). Organized by Global Science and Technology Forum (GSTF), **18-19 March 2013**, Singapore.
31. Attended National Seminar on "Uttarakhand Disaster : Contemporary Issues of Climate Change and Development with a Holistic Approach" . Seminar organised by Sri Dev Suman Uttarakhand University, Badshahithaul, Tehri Garhwal, Uttarakhand from **25th – 27th October, 2013**.
32. Attended State Level Evaluation Committee (SLEC) meeting/workshop, organized by Herbal Research and Development Institute (HRDI) for evaluation of project proposal under Rashtriya Aushdhi Padap Mison Priyojana sponsored by NMPB at Mondal, Gopeshwar Chamoli on **18 December, 2013**.
33. Attended 8th Uttarakhand State Science and Technology Congress from **26-28 December, 2013** at Doon University, Dehradun.
34. Attended "National Conference on Environmental Constraints, Conservation and Resource Development of Medicinal Plants for Health & Societal Benefits". Jointly organized by Doon University, Dehradun, Society for Conservation and Resource Development of Medicinal Plants (SMP), Delhi, SSCE, Delhi and Professor H.S. Srivastava Foundation for Science and Society, Lucknow, **21-23 March, 2014** at Doon University, Dehradun.
35. Attended "Inception Meeting of HIMALICA-HUC Higher Education for Mountain Agriculture Work Group, ICIMOD, Kathmandu, Nepal, **21-22 February, 2017**.
36. Attended "National Seminar-Cum-M&E workshop" organized by GBPNIHESD, Ministry of Environment, Forest and Climate Change (MoEF&CC) at Kosi-Katarmal, Almora, **4-7 February 2019**.
37. Attended "International conference on Contemporary Issues of Climate Change, Conservation of Biodiversity and Natural Resources in Himalayan Environments", organized by Department of Zoology, Government P.G. College New Tehri, Tehri Garhwal, Uttarakhand, India (**14-16 November 2019**).
38. Attended Regional Workshop on "Uttarakhand Rajaya mei Ayurveda ewam Aushdhiya Poudhon ke Chetra mei Vikash hetu Ranniti" at Bhole Baba Ayurvedha Hospital ewam Research Centre, Chiniyanaula, Ranikhet. Organised by Chetriya ewam Sugamta Kendra, Uttari Chetra, NMPB, Ayush Mantralay, Bharat Sarkar (**22 January 2020**).
39. Attended Monitoring and Evaluation Workshop organized under National Mission on Himalayan Studies (NMHS), scheme, Govt. of India by GBNIHESD, Kosi-Katarmal, Almora at INSA, New Delhi (**28-29, January 2020**).
40. Attended and delivered technical lecture (17/2/2020) in "Green Skill Building Programme" organized by GBPNIHESD, Garhwal Regional Centre at Nagar Panchayat Bhawan, Nandaprayag, Chamoli (**12-18 February 2020**).
41. National e-Conference On 'Bioresources and Sustainable Livelihood of Rural India' organized by Department of Botany, Nagaland University, Lumami, Nagaland, India (**September 28-29, 2020**).
42. National conference on Conservation and Sustainable Development of Himalayan Wetlands Ecosystem in Uttarakhand (CSDHWE) organized by Department of Zoology and Botany, Government P.G. College New Tehri Garhwal, Uttarakhand (**24-25 September 2021**).

43. Participated in international joint seminar/field workshop on integrative research for sustainable agroecosystems and ecological integrity of the mountainous ecosystems of Uttarakhand jointly organized by School of Agriculture and Allied Sciences & Department of Geology, HNBGU (A Central University), Srinagar (Garhwal), Uttarakhand, India and University of Hohenheim, Stuttgart, Germany (16-20 May 2022).

44. Participated in “Synergistic Training Program Utilizing Scientific and Technological Infrastructure (STUTI)” Sponsored by Department of Science and Technology (DST), Govt. of India and Organized by Amity University, Amity, Uttarpradesh. (24-30 May 2022).

Workshops/Seminars/Training Programmes Conducted

1. Conducted three days training programme on Motivation, Cultivation and Marketing Strategy of Medicinal and Aromatic Plants (5/10/2009-7/10/2009) for farmers (30 no.) selected by Uttarakhand Parvatiya Aajeevika Sanvardhan Company (UPASaC), Chamoli (Garhwal), Uttarakhand.

2. Conducted three days training programme on “Cultivation and Production of Medicinal Plants for Livelihood Improvement” (7/12/2009-9/12/2009) for farmers (60 no.) selected by Livelihood Improvement Project for the Himalayas (LIPH), Uttarkashi and Bageshwar.

3. Conducted one day training programme on “On farm conservation and sustainable utilization of natural resources” (29/03/2010) for villagers (50 no.) of Tala, Usara, Ukhimath, District, Rudraprayag.

4. Conducted three days training programme on “Cultivation and Marketing of Medicinal and Aromatic Plants” (16/9/2010-18/9/2010) for Official (30 no.) of Agriculture and Soil Conservation Unit of Pauri Garhwal, Uttarakhand.

5. Conducted three days training programme on Nursery development, cultivation and Marketing of Medicinal and Aromatic Plants” (28/3/2011-30/3/2011) for farmers (50 no.) selected by Livelihood Improvement Project for the Himalayas (LIPH), Bageshwar and HRDI, Gopeshwar, Chamoli, Uttarakhand.

6. Conducted two days training programme for farmers (30 no.) selected from Dewal and Ukhimath Developmental Block of Chamoli and Rudraprayag District of Uttarakhand, respectively, on selected important medicinal plants, under Network project funded by NMPB, New Delhi. **February, 27-28, 2012.**

7. Conducted two days training programme for farmers (60 no.) selected from three villages of Dewal, Development Block of Chamoli District of Uttarakhand, on conservation and cultivation of selected MAPs, under Jatamansi project funded by NMPB, New Delhi. **October, 8-9, 2012.**

8. Organized one day awareness camp on importance of medicinal and aromatic plants for students (200) of Government Inter College and villagers of Jamrakhal, Pauri Garhwal, Uttarakhand in the occasion of Jodi Buti Diwas. **4, August, 2014.**

9. Conducted two days training programme for farmers (40 no.) selected from three villages of Ukhimath Block of Rudraprayag District of Uttarakhand on “techniques of large scale cultivation of medicinal and aromatic plants under NMPB, Govt. of India funded project. **8-9 September 2014.**

10. Jointly Organized one day workshop on “Jalagam Prabandhan ewam Aajivika Vikas ke Bikalp” for Panchayat Pratinidhi (40 no.) of District Bageshwar under Uttarakhand Vikendrikrit Jalagam Vikash Pariyojana -2. **14, December, 2014.**

11. Conducted two days training programme for farmers (45 no) from different villages of District Chamoli, Rudraprayag, Tehri and Pauri District of Uttarakhand on “Technical Knowledge and production of Medicinal and Aromatic Plants” under Rashtriya Aushadhi Padap Mission (RAPM)/Herbal Research and Development Institute (HRDI), Gopeshwar, Chamoli funded R&D project. **2-3 December, 2015.**

12. **Organized one day “induction workshop/ training programme”** on available propagation and cultivation practices (Agro-technology), post-harvest techniques in terms of harvesting, grading, packaging and marketing of the MAPs produced under National Medicinal Plants Board (NMPB), Govt. of India funded R&D project. **16 March 2016.**

13. Organized two days “induction workshop/ training programme” on Current Status of High Altitude Medicinal and Aromatic Plants under National Mission on Himalayan Studies (NMHS) launched by Ministry of Environment, Forest and Climate Change (MoEF&CC), Govt. of India through G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora, Uttarakhand funded R&D project. **27-28 February, 2017.**

14. Conducted one day awareness workshop/plants distribution programme on the occasion of Jodi Buti Diwas for Students, Teachers, Villagers/Farmers and leaders (420 no.) at **Govt. Inter College, Chuanghat, Ramni, Ghat, district Chamoli under National Mission on Himalayan Studies (NMHS) Scheme of Govt. of India. (4/8/2017).**

15. Conducted one day one day awareness workshop/plants distribution programme organised on the occasion of Swatantrata Divash for Students, Teachers, Villagers/Farmers and leaders (573 no.) at **Swatantrata Sangrame Sainane late Chandra Singh Adhikari Govt. Inter College Soopi, Kapkot, District, Bageshwar under National Mission on Himalayan Studies (NMHS) Scheme of Govt. of India. (15/8/2017).**

16. Conducted one day field level awareness workshop/ plants distribution, plantation Programme at **Chopta, district Rudrapur for Students, Teachers, Villagers/Farmers and leaders (133 no.) under National Medicinal Plants Board (NMPB) funded R&D project. 26/8/2017.**
17. Conducted day field level workshop/plants distribution programme for Villagers/Farmers and leaders (76 no.) at **Taluka (Harkidun), Cluster, Mori Uttarkashi under National Mission on Himalayan Studies (NMHS) Scheme of Govt. of India. 29/8/2017**
18. Conducted one day field level workshop/plants distribution programme for Villagers/Farmers and leaders (60 no.) at **Koti Gangtadi Cluster of Badkot, Uttarkashi under National Mission on Himalayan Studies (NMHS) Scheme of Govt. of India. 30/8/2017.**
19. Conducted day field level workshop/plants distribution programme for Villagers/Farmers and leaders (65 no.) at **Dugtu Cluster, Dharchula, Pithoragarh under National Mission on Himalayan Studies (NMHS) Scheme of Govt. of India. 13/9/2017.**
20. Conducted one day field level workshop/plants distribution programme for Villagers/Farmers and at **Wan, Dewal Cluster, Chamoli, Uttarakhand under National Medicinal Plants Board (NMPB) funded R&D project. 15/9/2017.**
21. Conducted two days induction workshop/training programme farmers/villagers (89 no.) of different high altitude villages of different districts of Uttarakhand under National Mission on Himalayan Studies (NMHS) Scheme of Govt. of India. **27-28/2/2017.**
22. Conducted two days Training/ seeds-plants distribution programme for villagers/farmers (115 no.) of different high altitude villages of different districts of Uttarakhand under National Mission on Himalayan Studies (NMHS) Scheme of Govt. of India. **20-21 March 2018.**
23. Organized two days Medicinal and Aromatic Plants Farmers Conference on “Cultivation to Conservation” of Medicinal and Aromatic Plants of Higher Himalaya under National Mission on Himalayan Studies (NMHS) Scheme and National Medicinal Plants Board (NMPB), Govt. of India funded R&D projects. **12-13 March 2019.**
24. Organized farmers training programme on “Agro-technology of Medicinal and Aromatic Plants (MAPs)” for 115 selected farmers of Districts Chamoli, Pithoragarh Rudrapur, and Uttarkashi in collaboration of PRAGYA (Non-Government Organization), Gurgaon. **25-28 March 2019.**
25. Organised one day field level farmers workshop cum training programme under Jiwant Welfare and Charitable Trust, Dabur India Ltd. at Rushiyan (23.7.2021), Partha and Kashbinagar (24.7.2021), Tharali, Chamoli on dated **23, 24 July 2021.**

Invited Lectures

1. Delivered lecture on “*Sustainable Harvesting of Forest Produce Including Medicinal and Aromatic Plants*” in workshop Capacity Building of Van Panchayat”. Workshop organized by Patanjali Gramodiyog Nyaas & patanjali Yog Peeth, Haridwar at Uttarkashi, Uttarakhand (**21/4/2011**).
2. Delivered lecture on "*Cultivation and post harvesting techniques of Kutki and Atish*" in Training programme organised by Centre for Aromatic Plants (CAP) under UNDF-GEF project. **19-20/12/2012.**
3. Delivered lecture on "*Stakeholders perspective on MAP sector of Uttarakhand*" in workshop on medicinal and aromatic plants of Uttarakhand: A Policy perspective & Release of book on "Domestic market study for selected medicinal and aromatic plants of Uttarakhand". Workshop organised by GIZ, Uttarakhand Regional Economic Development Programme (RED), Dehradun. **21st December, 2012.**
4. Delivered lecture as expert on Issues of medicinal and aromatic plants sector in Uttarakhand. The **Brain Storming Session on Medicinal and Aromatic Plants** organised by UCOST during the 8th Uttarakhand State Science and Technology Congress from **26-28 December, 2013** at Doon University, Dehradun.
5. Delivered lecture on "Kuth Cultivation, Status and Issues" in Buyer-Seller Meet for Development of Value Chain of Kuth. The meet organised by Uttarakhand University of Horticulture and Forestry (UUHF), Ranichauri Campus at Purola, Uttarkashi. **23rd March 2014.**
6. Delivered lecture on "Cultivation techniques of kutki, kuth, atish and masi" in farmers training programme. The training programme organised by PRAGYA, Gurgaon at Joshimath, Chamoli. **28 -29 March 2014.**
7. Delivered Lecture and hands on practical trainings on “Propagation of MAPs, particularly *Zanthoxylum spp.*” to field staff of Dabur Nepal Pvt. Ltd. Training Programme organized by Babur Nepal Pvt. Ltd. at Banepa, Kathmandu. **14 -19 July 2014.**

8. Delivered Technical lectures on “Agrotechnology of “*Nardostachys grandiflora*” in National workshop on “Agro technology and profit enhancing marketing strategy for Medicinal Plants”, **June 2-3, 2016**. Jointly organized with Society for Conservation and Resource Development of Medicinal Plants (SMP), New Delhi and Doon University, Dehradun at Dehradun.
9. Delivered technical lecture on Cultivation of High Altitude Medicinal and Aromatic Plants Species in National Workshop “Responsible Trade Network for Himalayan Agri-Produce” Organized by PRAGYA (Non-Government Organization) on **6th March 2019** at Magnolia Hall, India Habitat Centre, New Delhi, India.
10. Delivered technical lecture on Rural Technology Connect for Green Skill Development, Harnessing Bioresource Potential for Livelihood Enhancement and Natural Resource Management in the Central Himalaya in **Eight Days workshop on Green Skill Development** organized by G.B. Pant National Institute of Himalayan Environment & Sustainable Development, Garhwal Regional Centre, Srinagar (Garhwal), Uttarakhand. **11-18 March 2019**.
11. Delivered Invited Lecture on “Mountain Agriculture: A context of Indian Himalayan Region” in National Seminar on Agriculture Transformation and Rural Development in India: Issues, Challenges and Possibility. Organised by Department of Economics, HNBGU, Srinagar (Garhwal), **11-12 October 2019**.
12. Delivered technical lecture during training programme organized by Uttarakhand State Council for Science & Technology (UCOST), Dehradun, Uttarakhand on “Nursery Establishment Technology” on dated 3rd and 4th March 2019 at Bazira, Rudrapur.
13. Delivered lecture on “The Buggyals: A Bio-Repository under Peril” in International conference on Contemporary Issues of Climate Change, Conservation of Biodiversity and Natural Resources in Himalayan Environments”, organized by Department of Zoology, Government P.G. College New Tehri, Tehri Garhwal, Uttarakhand, India (**14-16 November 2019**).
14. Delivered lecture on “Cultivation of High Altitude Medicinal and Aromatic Plants: A Key for Sustainable Development and Bioresource Conservation in Higher Himalayan Region (HHR) of India” in National e-Conference On ‘Bioresources and Sustainable Livelihood of Rural India’ organized by Department of Botany, Nagaland University, Lumami, Nagaland, India (**September 28-29, 2020**).
15. Delivered lecture on “Wetlands: Diversity, Utilization and Conservation of High Altitude Wetlands (HAWs) Areas Medicinal and Aromatic Plants (MAPs) of Indian Himalayan Region (IHR)” in National conference on Conservation and Sustainable Development of Himalayan Wetlands Ecosystem in Uttarakhand (CSDHWE) organized by Department of Zoology and Botany, Government P.G. College New Tehri Garhwal, Uttarakhand (**24-25 September 2021**).
16. Delivered an invited technical lecture and hands on practical training on “Cultivation of Medicinal Plants in Mid Hills of Uttarakhand” in farmers workshop organized by Institute of Medicinal and Aromatic Plants (IMAP), VCSGUUHF, Mehalchauri, Gairsain, Chamoli Garhwal, Uttarakhand (**26.10.2021**).
17. Delivered an invited expert lecture during the national workshop entitled "Impact of climate change on Central Himalayan (Uttarakhand) Rural landscape and local/indigenous knowledge and adaptation strategies" (Topic of lecture was Impact of Climate Change on Agriculture and Strategy) organized by Department of Environmental Science, H.N. Bahuguna Garhwal University, Srinagar (Garhwal), Uttarakhand (**26.11.2022**).
18. Participated/attended in the International Bioresource Conclave & Ethnopharmacology Congress Jointly organized by Institute of Bioresources and Sustainable Development (IBSD), Imphal, Manipur India and Society for Ethnopharmacology (SFE), Jadavpur, Kolkata, India from **February 24-26, 2023** at City Convention Centre, Imphal, Manipur, India and presented paper entitled " *Propagation & Cultivation : A promising way to conservation of rare, endangered & threatened medicinal plants as well as the economic empowerment of local inhabitants* (ISESFEC/23/P-098).
19. Participated/attended as subject expert in the Capacity building cum Sensitization Workshop Voluntary Certification Scheme for Medicinal Plant Produce, organized by Quality Council of India, New Delhi at Rohru, Shimla, Himachal Pradesh, India (**4.3.2023**) and delivered talk on '*Herbal cultivation and Quality*' (is quality depends on good collections practices?).
20. Participated/Attended as subject expert in the Tourist Destination Guide Training Program, organized by Hemwati Nandan Bahuguna Garhwal Central University, Uttarakhand and Tourism Development Council and 'Intact' Indian Cultural Fund at Government Post Graduate College, Gopeshwar, Chamoli, Uttarakhand from **14th July to 23rd July**,

2023 and delivered expert talk on 'Promotion of Medicinal and Aromatic Plants for the purpose of Tourist in Uttarakhand'.

21. Participated/attended as resource person in the seminar on "Getting acquainted with local products, coarse grains and their use and importance linking it with self-employment" under the International Millets Mission 2023 organised by District Education and Training Centre, Chadigaon, Pauri (Garhwal) from **August 1st-3rd 2023** and delivered talk on '*Millets – The Nutri Cereals*'.

22. Participated/ attended as expert in the National Conference on Academia-Industry Interface for Promoting Entrepreneurship in Medicinal and Aromatic Plants (PEMAP-2023), organized by Department of Botany, Central University of Jammu from **24th-25th August, 2023** at Central University of Jammu, Rahya-Suchani (Bagla), J&K and delivered expert talk on *Kutki (Picrorhiza kurroa): A highly successful....plants in Himalayan region*'.

23. Participate as resource person in the one week training program on "Mushroom Cultivation & Spawn Production". Organised by Department of Rural Technology, HNB Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand (**03/10/2023-08/10/2023**).

24. Participated/ attended in the Swarnim Amrit Sandesh Yatra and Seminar Subjected 'Climate Change and Environmental Issues' jointly organised by Maiti Sanstha, Dehradun and Uttarakhand State Council for Science and Technology (UCOST), Dehradun from **18-21st December 2023** and delivered talk on '*Climate Change and Livelihood*'.

25. Participated/attended in the three Days' training workshop on "Integrated Wetland Conservation & Management " for officers of AIS/Central Services and Other Stakeholders conducted by Indira Gandhi National Forest Academy, Ministry of Environment, Forest & Climate Change, Govt. of India, at Dehradun from **08—10, January 2024**.

26. Participated/Attended as Resource Person in the International Conference on Sustainable Models and Paradigms for Future of World Tourism and Hospitality Sector: Innovations, Challenges and Opportunities, Organised by Department of Centre for Tourism and Hospitality Studies, HNB Garhwal University, Srinagar (Garhwal), Uttarakhand from **February 9th-10th, 2024** and delivered talk on '*Climate change and natural disasters: An impact of mass tourism in Indian Himalayan region*'.

27. Participated/attended as invited speaker in the National Conference on Himalayan Ecosystem: Threats, Resilience and Sustainable Management, jointly organised by Department of Botany, Govt. P.G. College, Nagnath-Pokhri, Chamoli, Uttarakhand and Uttarakhand Science & Education Research Centre (USERC), Dehradun from **26-27, February 2024** and delivered talk on '*Wetlands: diversity utilization and conservation of high altitude medicinal and aromatic plants of IHR*'.

28. Participated/attended in the one day national workshop on Livelihood Generation, Entrepreneurship Development & Women Empowerment Through Production & Processing of Millets in Uttarakhand: Opportunities & Challenges, organized by Department of Economics, HNBGU, Srinagar (Garhwal) at Academic Activity Centre, Chauras Campus, HNBGU, Srinagar (Garhwal), Uttarakhand (**27.2.2024**) and delivered talk on '*Millets, uses, current status and Future possibilities*'.

29. Participated/attended as invited speaker cum expert in the National conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges, jointly organized by Uttarakhand Council for Biotechnology (UCB), Society for Plant Research (VEGETOS), Graphic Era Hill University, Dehradun & Directorate of Coldwater Fisheries Research, Bhimtal during **6-8, March 2024** at UCB, Regional Centre, Patwadangar, Nainital, Uttarakhand and delivered talk on '*Alpine meadows and Bugyals : Nature treasure troves of vital biological wealth*'.

30. Participated as lead speaker in National Conference on "Prospects and Challenges : Promoting Sustainable Farming System in Mountain Regions of Uttarakhand, Organised by Department of Rural Technology, SAAS, HNBGU, Srinagar (Garhwal Uttarakhand) from **14-16 March 2024** and delivered talk on '*Declining hill agriculture and options for revival through integrated farming approach : A case study of Uttarakhand Himalaya*'.

31. Participated as Chairperson in the Technical Session in National Conference on "Prospects and Challenges : Promoting Sustainable Farming System in Mountain Regions of Uttarakhand, Organised by Department of Rural Technology, SAAS, HNBGU, Srinagar (Garhwal Uttarakhand) from **14-16 March 2024**.

32. Participated in International Workshop and Winter School on Hands-on-Training for Atmospheric Aerosol Measurements, Source Apportionment and Prediction over Bharat, organised by Department of Physics, HNBGU, Srinagar (Garhwal) and Department of Instrumentation Engineering/USIC, HAPPRC, HNBGU, Municipal Post Degree College, Mussoorie, Uttarakhand, AIMT, Dehradun and Dhanauri P.G. College, Haridwar, Uttarakhand from **18-22 March 2024** at HNBGU, Srinagar (Garhwal), Uttarakhand and delivered talk on '*Atmospheric Aerosols : Impact on ecophysiology interactions and growth of plants of Alpine environment*'.

33. Participated as invited speaker and Chief Guest in two day workshop (**20th-21st March 2024**) on the occasion of International Day of Forest 2024, Organised by Department of Botany, BGR Campus Pauri, HNB Garhwal University at Department of Botany, BGR, Campus, HNBGU Pauri, Uttarakhand and delivered talk on '*Forest and innovation*'.

34. Participated/attended a Nurturing Future Leadership Program under the Aegis of Malaviya Mission Teacher Training Programme from **July 08-12, 2024** organised by Indian Institute of Management Indore, MP, India.

35. Participated as a resource person for the session "Diversification of Agriculture...and delivered a talk on "*Planting and Cultivation of Medicinal and Aromatic Plants: An Additional Option to Earn Income in Agriculture Sector*" in Seminar on Empowering Women in Agriculture – Opportunities and Challenges jointly organised by National Commission for Women, New Delhi and VCSG Uttarakhand University of Horticulture and Forestry, Bharsar Uttarakhand at College of Forestry, Ranichauri, Tehri Garhwal, Uttarakhand, India (**22/7/2024**).

36. Participated as Co-Coordinator in the Organising Committee of Progressive Horticulture National Symposium (PHNS-2024) on Horticulture in the Himalayas during **17-19 October, 2024** at HNB Garhwal University, Srinagar (Garhwal), Uttarakhand, India.
37. Participated as a resource person in the event "Regional Stakeholders Consultation on Quality Planting Materials/Nurseries of Medicinal Plants" organised by Regional-cum-Facilitation, Centre, Northern Region-I, Research Institute in Indian Systems of Medicine (RIISM), Joginder Nagar, Distt. Mandi (H.P.) and NITTR, Sect 26, Chandigarh on **13th – 14th November, 2024** and delivered talk on "Role and importance of quality planting material of Medicinal Plants"
38. Participated as a speaker in International Seminar on medicinal plants (associated event) theme "Strengthening supply chain for medicinal plants: Accomplishments, Aspirations, Opportunities and Challenges" during the 10th World Ayurveda Congress & Arogya Expo 12th-15th December 2024 at Dehradun, Uttarakhand and delivered lecture on Cultivation of Threatened Himalayan Species : A review & Future Scope (**14th & 15th December 2024**).
39. Participated as Key Note Speaker in National Seminar on Cultivation, Conservation and Sustainable Utilization of Medicinal Plants in Uttarakhand and Delivered Talk on Cultivation of Threatened Medicinal plants. Organised by Department of Botany, DBS (PG) College, Dehradun (**17 February 2025**).
40. Participated as invited expert in National Symposium on "Sustainable Development and Conservation of Himalayan Bioresources Through a Multidisciplinary Approach" at CSIR-Institute of Himalayan Bioresource Technology, Palampur (Himachal Pradesh), India and delivered invited expert talk on Himalayan Medicinal and Aromatic Plants: Conservation, Promotion and Commercial View (**2nd – 3rd September 2025**).
41. Participated in 46th Annual Meet of the Institute of Indian Geographers & International Conference 2025 on Dynamic Earth, Fragile Environment & Path to Climate – Resilient Societies and **Co-chaired** the session "Rural Development-issues and concerns – Changing agricultural practices and ecosystem services, innovations and climate adaptations strategies" organised by Department of Geography, School of Earth Science, Hemvati Nandan Bahuguna Garhwal University (A Central University), Srinagar (Garhwal), Uttarakhand (**25-27 October 2025**).
42. Participated as the **key note speaker** in International Hybrid Conference on Sustainable Development Goals (SDGs): Challenges and Progress organised by Department of Geography (School of Humanities and Social Sciences), Shri Guru Ram Rai University, Dehradun, Uttarakhand, India (**14th February, 2026**).
43. को-चियर इन "भारतीय इतिहास अनुसंधान परिषद, नई दिल्ली (शिक्षा मंत्रालय, भारत सरकार) द्वारा वित्त पोषित राष्ट्रीय संगोष्ठी "भारतीय ज्ञान परम्परा की प्रासंगिकता : राष्ट्रीय शिक्षा निधि 2020 के विशेष संदर्भ में. आयोजक : शिक्षा विभाग, हे.न.ब. गढ़वाल विश्वविद्यालय, श्रीनगर गढ़वाल, उत्तराखंड. दिनांक 16-17, अप्रैल 2026. स्थान-शैक्षणिक क्रिया कलाप केन्द्र, चौरास परिसर, हे.न.ब. गढ़वाल विश्वविद्यालय.

Awards/ prize

Jointly received **Uttaranchal Govt. Herbal Expo-Prize 2005** as team (Drs. R. K. Maikhuri, V.K. Purohit, R.K. Agnihotri and Arvind Bhatt) member for excellent demonstration of research and development contribution in the area of medicinal and aromatic plants cultivation and conservation done by G. B. Pant Institute of Himalayan Environment and Development.

Received "**Certificate of Honour**" from the Padam Sri Vaidh Rajesh Koteja, Secretary, AYUSH, National Medicinal Plants Board (NMPB), Govt. of India in the field of conservation and promotion of medicinal and aromatic plants cultivation in Uttarakhand (**22/1/2020**).

Received "**Certificate of Giri Ganga Gaurav Samaan-2023**" from the Non Govt. Organization Maiti Sanstha of Uttarakhand on **30 October 2023** by the hand of Prof. Anapurna Nautiyal, Hon'ble Vice Chancellor, HNBGU, Dr. Sanjay Kumar, Chairman, Agriculture Scientist Recruitment Board, Govt. of India and Padam Sri Kalyan Singh Rawat, Secretary, Maiti Sanstha, Uttarakhand.

Received "**Certificate of Appreciation Award**" during UCOST sponsored National Seminar on Cultivation, Conservation and Sustainable Utilization of Medicinal Plants in Uttarakhand and Delivered Talk on Cultivation of Threatened Medicinal plants. Organised by Department of Botany, DBS (PG) College, Dehradun (**17 February 2025**).

Received Certificate of "**Gaura Devi Samaan – 2025**" in the field of nature conservation from the Non Govt. Organization Jandesh Saamajik Sangathan ewam Gaura Devi Paryavaran ewam Prakriti Prayatan Mela Samiti, Urgam, Joshimath/Jotirmath, Uttarakhand on the occasion of **World Environment Day (5 June 2025)** by the hand of Smt. Ritu Khanduri Bhushan, Hon'ble Speaker of Uttarakhand's State Legislative Assembly, Uttarakhand Govt. Dehradun.

Received "**Certificate of Appreciation - 2026**" in the field of **Medicinal Plant Cultivation** from the Dabur India Limited (**10 January 2026**) by the hand of Dr. Pankaj P. Raturi, Head, Bioresources Development and Mr. Narayanan R. Chief Procurement Officer, Dabur India Limited at Jivanti Research Centre, Dineshpur, Pantnagar, Uttarakhand.

Received Certificate of "**Samlong Samman – 2026**" in the field of **Environment Conservation** from the Non Govt. Organization Samlong, Paithani, Pauri Garhwal on 25.01.2026.

Received "**Certificate of Appreciation**" in the field of **Long Term Public Service and Immediate Public Concern** from the Non Govt. Organisation Shaswat Dham Lachmoli (Tehri Garhwal) on 15.02.2026.

Orientation/Refreshers/Training Programmes attended

1. Attended a UGC, Govt. of India, New Delhi sponsored four week orientation course at Academic Staff College, **JNU**, organised during **04/01/2010-29/01/2010**.
2. Attended a DST, Govt. of India, New Delhi, sponsored training course on "Science and Technology for Rural Societies" from **20th to 31st August, 2012**, under "National Programme for Training of Scientists & Technologists working in the Govt. Sector". Training course conducted at the Centre for Disaster Management, **NIAR, LBSNAA**, Mussoorie, Uttarakhand.
3. Attended a Nurturing Future Leadership Program under the Ageis of Malaviya Mission Teacher Training Programme from **July 08-12, 2024** organised by Indian Institute of Managemnt Indore, MP, India.

Important Media Released

1. Maletha mei sikhai jayegi bina dhuwe wale koyle ki takneek. Dainik jagran news paper, 23 April, 2005.
2. Biobrequette takneek ka pardarshan kiya. Amar Ujala news paper, 23 April 2005.
3. Tissue culture se tayare ki banj ki poudh. Dainik jagran news paper, 16 May 2005.
4. Kisano ko di jari-buti krishikaran ki jankari. Dainik jagran news paper, 7 June 2006.
5. Srinagar mei tissue culture se gingo ka utpadan. Dainik jagran news paper, 20 May 2006.
6. Aay ka behter sarote ho sakta hai Amara. Amar Ujala news paper, 9 July 2006.
7. Vikash ke liye ho sodh : Yogendra. Amar Ujala news paper 25 July 2006.
8. Khushali la sakta hai timru. Amar Ujala news paper, 9 September 2006.
9. Vaighaniko ke abhave mei bhi utkrishth karya ker reha hai G. B. Pant paryavaran evam sodh sansthan. Paje 3 news paper, 1 October 2006.
10. Pachaas lakh ton patieo ka patjhar bana banagni ka karen. Shah Times news paper, 17 Novenmer 2006.
11. Dhuwa rehit biobriquette takniki se rubru huwe log. Paje 3 news paper, 24/11/2006.
12. Bemausmi sabji wa paudhsala tekneek ka diya pershiksan. Dainik Jagran News Paper, 25/2/2007.
13. Bahupayogi kinmor paudhe ke sangreksan ki jarurat. Dainik Jagran News Paper, 26/2/2007.
14. Aajeevika ke aane se mahilao mei jagi aasha ki kiran. Shah Times news paper, 11/4/ 2007.
15. Mahilao ki peeth ka bojh cum kerne per bul. Amarujala news paper, 17/4/2007.
16. Gramino ka bad reha hai rujhan. Amarujala News Paper, 24/5/2007.
17. Garibo ki Aajeevika sudharene ka pariyas. Amarujala News Paper, 30/5/2007.
18. Hermani Kunal mei briksharopen ke liye khode gaye gadde. Amarujala News Paper, 6/6/2007.
19. Aadhunik taknik ke madham se kiya jayega briksharopan: Mk0 iqjksfgr. Shah Times news paper, 16/6/ 2007.
20. Tissue culture se tejpat ka utpadan suru. Amarujala News Paper, 23/9/2008.
21. Rajya pusp braham kamal per sankat. Amarujala News Paper, 16/11/2008.
22. Sodh Kendra ne ugai tejpat ki paudh. Hindustan News Paper, 1/2/2009.
23. Paryaveran diwas ko utsav ke rup mei manai: iqjksfgr. Amar Ujala News Paper, 4/6/2009.
24. Vishwavidiyala de reha kutki utpadan ko badawa. Amar Ujala News Paper, 10/8/2009.
25. Hiprek krega jatamansi ki panch lakh poudh tayar. Amar Ujala News Paper, 29/9/2009.
26. Pindar Ghati mei banega aushdhiya snrakshan hun. Amar Ujala News paper, 30/7/2010.
27. Ab haar ki kagar pr cancer. Dainik Jagran News paper, 10/12/2010.
28. Budape ki penson denge reetha or tejpat. Dainik Jagran News paper, 30/12/2010.
29. Sagandh Padapo ke astitwa pr mandra reha khtra: Purohit. Rastriya sahara News Paper, 19/2/2011.
30. Khub ugaye tejpat kamai ho gi hatho hath. Dainik Jagran News Paper, 20/3/2011.
31. Himalay ke bina Jari buti ki awdharana apurn. V.C. Dainik Jagran News Paper, 29/3/2011
32. Jari Buti Utpadan pr diya bal. Hindustan News Paper, 30/3/2011.
33. Jaributiyo ka khajana hai Uttarakhand. Rastriy Sahara News Paper, 5/8/2011.
34. Dhumdham se manaya jari buti diwas. Dainik jagran News paper, 6/8/2001.
35. Tejpat se sawregi takdeer. Hindustan News paper, 6/7/2011.

R & D Experience

1) Environmental Physiology and Biotechnology Division, G. B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora (May 1997 to March 2005).

I joined this Institute in the year 1997 as a Project Fellow in the project entitled “*Network programme for mass propagation of tree species of Himalayan region*” funded by the Department of Biotechnology, Govt. of India. The target species in the project were *Camellia sinensis* (Tea), *Dendrocalmus hamiltonii* (Maggar bamboo), *Thamnocalmus spathiflorus* (Dev-ringal), *Cedrus deodara* (Deodar), *Quercus* spp. (*Quercus glauca*, *Q. leuchotrichophora*, *Q. floribunda*, *Q. semecarpifolia*), *Pinus gerardiana* and *P. wallichiana*. I worked on tissue culture, seed germination, and clonal (vegetative) propagation of *Quercus* spp. and developed complete regeneration protocols for the three oak species namely, *Quercus glauca* (Phaniyat), *Q. leuchotrichophora* (Banj), *Q. floribunda* (Tilonj). This led to standardization of shoot multiplication and rooting of microshoots, hardening and survival of plantlets upon transfer to soil. A comparison of physiological (gas and water vapour exchange), and morphological growth parameters (shoot length, Shoot diameter, leaf number, etc.) revealed that the micropropagated plants and seedlings are quite similar. Clonal propagation by conventional means and studies on seed viability, storage, improvement in per cent germination through various treatments, and a comparative study of seedling growth under different microclimatic conditions were also carried out to strengthen nursery practices.

Following this I joined a project entitled “*Establishment of Rural Biotechnology complex for capacity building and economic upliftment with particular reference to women of the Indian Himalayan region*”, funded by the Department of Biotechnology, Govt. of India with multidisciplinary team of Scientists & Technicians for sustainable development of Indian Himalaya from last four years (17/9/01 onwards). This involves trainings, extension work as well as the development of simple, low cost, eco-friendly and replicable technology packages, largely biotechnology based. The available simple technologies are being demonstrated at various villages so that the rural masses become aware of the technological advancements, and also use the same for their own benefit. In this project besides, the trainings of user groups the following major tasks assigned to me are:

A) Nursery development of various multipurpose tree species for awareness and augment supply of planting materials to user groups with the help of field staff.

B) Propagation and multiplication of different commercially important medicinal plant species such as *Picrorhiza kurroa* (Kutki), *Aconitum heterophyllum* (Atis), *A. balfourii* (Mitha, Bish) and *Taxus baccata* (Thuner) using *in vitro* protocols as well as by conventional methods. In addition to this, I also worked on development of *in vitro* as well as vegetative propagation (rooting of stem cuttings) of *Zanthoxylum armatum* (Timur) and *Berberis asiatica* (Kilmor), besides improving their seed germination through different presowing treatments using plant growth regulators and nitrogenous compounds.

C) Cultivation of cash crops: Realizing the vast potential of cash crops, in the Himalayan region, I worked on set up of nurseries of various crops namely large cardamom, Bulgarian rose (cuttings), Geranium (cuttings), strawberry (runners), ginger, garlic, coriander and turmeric for providing propagules to progressive and creative farmers of Uttarakhand.

2) Garhwal Unit, G. B. Pant Institute of Himalayan Environment and Development, Srinagar (Garhwal), Uttarakhand, India (April 2005- December 2006).

A) Developing propagation protocols through conventional as well as biotechnological methods of wild edibles amara (*Spondias pinnata*), Ames (*Hippophae rhamnoides*) and Maidenhair tree (*Ginkgo biloba*).

B) Established germplasm centre and strengthened cultivation, demonstration and dissemination of medicinal plants namely, Kutki (*Picrorhiza kurroa*), Kuth (*Saussurea costus*), Lavender (*Lavandula officinalis*), Archa (*Rheum emodi*), Faran (*Allium stracheyi*), Samyo (*Valeriana wallichii*), Isabgol (*Plantago ovata*) and Kala zeera (*Carum carvi*) at Ginot Village of Uttarkashi and Triyuginarayan village of Rudrapur District.

3) Livelihoods Improvement Projects for the Himalayas, District Management Unit, Haldwani, Gopeshwar Chamoli, Uttarakhand, India (An International Fund for Agriculture Development funded project; 1/1/2007 onwards).

I have worked in above said project on demonstration and extension of income generation activities for livelihoods enhancement, trainings of CBOs on promoting cultivation and conservation of natural resources through participation approach and collaboration and convergence with govt. line departments and scientific institutions for extension work.

4) High Altitude Plant Physiology Research Centre, HNBGU, Srinagar (Garhwal) (31/3/2008 onwards).

31/3/ 2008 I have joined the HAPPRC and initiated research work on biotechnological applications (Tissue culture of selected medicinal and aromatic plant species) and extension of available agrotechnologies for promoting propagation

cultivation and conservation of medicinal and aromatic plants at farmers field. I am also involved in teaching of M. Phil (environmental plant biology) and M.Sc. (medicinal and aromatic plants) courses.

Academic Supervision

Status	Doctoral	Post Graduation	Bachelor	Industrial Training
Completed	03	11	03	-
In Progress	03	02	-	-

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


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(V. K. PUROHIT)

Place: Srinagar
