

## Curriculum Vitae

<b>Full Name:</b>	Dr. Jitendra Singh Butola	
<b>Designation:</b>	Assistant Professor	
<b>Department:</b>	Forestry and Natural Resources	
<b>Campus:</b>	Chauras campus	
<b>Telephone:</b>	01346-244666 (Home)	
<b>Mobile:</b>	9456370562	
<b>Email:</b>	drbutolajs@gmail.com	
<b>Date of Birth:</b>	03/07/1978	
<b>Educational Qualification:</b>	MSc. (Forestry) MBA. (Marketing Management) PhD. (Non-Wood Forest Products)	
<b>Fields of Specialization:</b> Non-Wood Forest Products, Medicinal and Aromatic Plants, Marketing management of Forest produce		
<b>Teaching Experience:</b>		
<ul style="list-style-type: none"> <li>• Assistant Professor at Department of Forestry and Natural Resources, HNB Garhwal University, Srinagar, joined on 5<sup>th</sup> March 2020.</li> <li>• Assistant Professor (Contractual) at College of Forestry, VCSG University of Horticulture and Forestry, Ranichauri for 06 years.</li> </ul>		
<b>Area of Interest:</b>		
<ul style="list-style-type: none"> <li>• Planning, Policies and Protocols for utilization, conservation and sustainable management of RET plant species including medicinal plants</li> <li>• Quality control, certifications, value chain development and marketing research on medicinal plants and other high value resources of Himalayan region</li> <li>• Non-Wood Forest Product (NWFP) resource development and rural cottage industries for livelihood security and economic growth</li> <li>• Himalayan Medicinal Plants: Potential, diversity, habitat ecology, conservation status, traditional knowledge and related documentation work</li> </ul>		
<b>Honours &amp; Awards:</b>		
<ul style="list-style-type: none"> <li>• RET Species Conservation Award by Nutrition and Natural Health Science Association, New India, Year 2017</li> <li>• Excellence in Teaching Award by Society for advancement in Agriculture Science and Technology, UP, Year 2016</li> <li>• Young Scientist Award by Aastha Foundation, UP, Year 2015</li> </ul>		
<b>Membership/Associations:</b>		
<ul style="list-style-type: none"> <li>• National Medicinal Plants Board, New Delhi (Govt. of India) - as an expert of Himalayan medicinal plants</li> <li>• Quality Council of India, New Delhi (Govt. of India)- as an expert of Himalayan medicinal plants quality and certification</li> <li>• WAPCOS Ltd, Gurgaon (Govt. of India Undertaking) – as an expert of Medicinal plants and Forestry</li> <li>• Uttarakhand State Biodiversity Board, Dehradun (Govt. of Uttarakhand)- as an expert of Medicinal plants diversity, cultivation and marketing (Value chain and ABS)</li> <li>• Society for Conservation and Resource Development of Medicinal Plants, New Delhi.- Life Membership</li> <li>• Human (Himalayan Union for Man And Nature) India, Uttarakhand- Life Membership</li> </ul>		
<b>Research Supervision:</b> Nil		
<b>Research Projects/ MoU undertaken:</b> 20 years' experience as Research fellow, Research Associate, Consultant, Team Leader, Principal Investigator and Co-PI (About 15 research projects and 03 research consultancies)		
<b>Administrative Experience:</b>		
<ul style="list-style-type: none"> <li>• In-Charge at Medicinal and Aromatic Plants Institute, Gairsain (VCSGUUHF)</li> <li>• In-Charge at Forestry and Horticulture Training Centre, Paintoli (VCSGUUHF)</li> </ul>		

- In-Charge at Institute of Food Science and Technology, Majrigrant (VCSGUUHF)
- Assistant Director, Labour Welfare department, College of Forestry (VCSGUUHF), Ranichauri

**Scientific visits Abroad/ International Collaboration:** Visited Nepal for marketing research on Himalayan medicinal plants

**Conference/Symposium/Workshops Attended during the last 5 years (Nos.):** 8

**Conference/Symposium/Workshop Organized during last five years (Nos.):** 02

**Total Number of Research Publications:** 96

Research Publications in Journals (Selected only):

#### FOREIGN JOURNALS

1. BUTOLA, JS et al. (2014). Germination ecophysiology of *Angelica glauca* Edgew. seeds. *European Journal of Medicinal Plants* 4(4): 404-412.
2. KUNIYAL et al (2014). Progress and prospect in the integrated development of medicinal and aromatic plants (MAPs) sector in Uttarakhand, Western Himalaya. *Env. Dev. Sus.* DOI 10.1007/s10668-014-9595-9. 1.4.
3. KUNIYAL et al. (2014). Promoting nursery enterprise in high altitude villages: a participatory approach for conservation and commercialization of Himalayan threatened medicinal plants. *J. Med. Plants Res.* 8 (48) 1399-1407.
4. MALIK et al. (2013) Standardization of seed storage conditions in Chilgoza pine (*Pinus gerardiana* Wall.): an endangered pine of Hind Kush Himalaya. *Trees: Structure and Functions* 27: 1497-1501.
5. KUNIYAL et al. (2013). Trends in the marketing of some important medicinal plants in Uttarakhand, India. *Int. J. Biod. Sci. Ecosys. Ser. Manage.* DOI: <http://dx.doi.org/10.1080/21513732.2013.819531>
6. KUNIYAL et al. (2013) Seed size correlates seedling emergence in *Terminalia bellerica*. *South African J. Botany* 87 (92-94).
7. MALIK et al. (2012) Natural regeneration status of Chilgoza pine in Kinnaur of Himachal Pradesh, India: An Endangered pine of high edible value. *Applied Eco. Env. Res.* 10 (3): 365-373.
8. MALIK et al. (2011) Ethno-medicinal practices and conservation status of Medicinal plants of north Kashmir Himalayas. *Research J. of Medicinal Plants* 5 (5): 515-530.
9. BUTOLA AND SAMANT (2010) *Saussurea* species in Indian Himalayan Region: Diversity, distribution and indigenous uses. *Int. J. Plant Biology* 1 (e9): 43-51.
10. BUTOLA et al. (2010) Assessment of inter-population variation in *Heracleum candicans* Wall. with emphasis on seed characteristics and germination behavior. *J. Med. Plants Research* 4 (3) 1523-34.
11. LANKER et al. (2010). Natural regeneration status of *Taxus baccata*: an Endangered Medicinal Plant in Northwest Himalaya, India. *Int. J. Bio. Sci. Eco. Ser. Manage.* 6 (1): 20--27.
12. BUTOLA AND BADOLA (2008) Himalayan threatened medicinal plants and their conservation in Himachal Pradesh. *Journal of Tropical Medicinal Plants* 9 (1): 125-142.
13. BUTOLA AND BADOLA (2008) Propagation conditions for mass multiplication of three threatened Himalayan high value medicinal herbs. *International Plant Genetic Resource Newsletter* 153: 43-47.
14. BUTOLA AND BADOLA (2007) Use of Sodium Hypochlorite to enhance seedling emergence, vigour and survival of *Angelica glauca* and *Aconitum heterophyllum*. *J. Herbs, Spices Med. Plants* 13 (4): 1-10.
15. BUTOLA AND BADOLA (2007) Vegetative propagation of *Angelica glauca* and *Heracleum candicans*. *Journal of Tropical Medicinal Plants* 8 (1): 85-91.
16. SAMANT et al., (2007) Assessment of diversity, distribution, conservation status and preparation of management plan for medicinal plants ...in Northwestern Himalaya. *J. Mountain Science* 4 (1): 34-56.
17. BUTOLA, JS, SAMANT, SS (2006) Physiological studies on seed germination of *Angelica glauca*. *J. Tropical Medicinal Plants* 7 (2): 205-212.
18. BUTOLA AND SAMANT (2006) Seed viability of *Saussurea costus*. *J. Trop. Med. Plant.* 7 (2): 197-203.
19. BADOLA AND HK BUTOLA (2005) Effect of ploughing depth on the growth and yield of *Heracleum candicans*: a threatened medicinal herb and a less-explored potential crop of the Himalayan region. *J. Moun. Sci.* 2 (2): 173-180.

#### INDIAN JOURNALS

20. BALKRISHNA ACHARYA et el. (2020) Diversity, Ethnomedicinal knowledge and conservation status of plant species in a part of North West Himalaya. *Medicinal Plants* 12 (3) 356-370.
21. DHANUSH et al. (2018). Diversity of wild edible plants resources in Tehri Garhwal Himalayas. *Int. J. of Usuf. Mngt.* 19: 32-47.
22. PANT et al. (2018). Indigenous knowledge on bio-resources management for sustainable livelihood by the cold desert people, Trans-Himalaya, Ladakh, India. *Indian J. Natural Products Res.* 9(2) 168-173.

23. LAL et al., (2018). Native, Endemic and Utilization Pattern of Woody Species of Dandachali forest of Tehri Forest Division, North-West Himalaya. *Indian J. Ecology* 45(1): 70-76.
24. SHARMA et al. (2017). Diversity, Distribution, and Conservation status of Orchids along an altitudinal gradient in Himachal Pradesh, North Western Himalaya. *J. Orchid Soc. India* 31: 23-32.
25. SOFI et al. (2016) Determination of storage techniques in *Cedrus deodara* seeds. *Indian Forester* 142 (4): 390-393.
26. BUTOLA et al. (2016) Ethno-medicinal importance of Gandrayan (*Angelica glauca* Edgew.) in the North Western Part of Indian Himalayan Region. *Medicinal Plants* 8 (4) 313-318.
27. KORANGA et al. (2015) Variation in essential oil yield of *Acorus calamus* L. across India. *Progressive Research* 10: 4004-4006.
28. BUTOLA AND VASHISTHA (2013). An overview on conservation and utilization of *Angelica glauca* Edgew. In three Himalayan States of India. *Medicinal Plants* 5 (3): 171-178.
29. KUNIYAL et al. (2013). Do the seed pulp and storage time affects seedling emergence in the Indian Bay Leaf (*Cinnamomum tamala*). *National Academy Science Letters* 36 (3): 331-334.
30. PUROHIT et al., (2012) Seed pulp significantly inhibits seedling emergence in *Terminalia bellerica*. *Current Science* 103 (7): 764.
31. BUTOLA AND MALIK (2012) Phenology and Survival of some Himalayan medicinal plants domesticated at different altitudes. *Int. J. Medicinal & Aromatic Plants* 2(4) 683-687.
32. BUTOLA et al. (2012) Livelihood diversification in cold arid desert of Indian Himalaya: urgent need of transforming traditional agroforestry.....herbal farming. *Int. J. Med. & Aroma. Plants* 2(3) 544-548.
33. SINGH et al. (2012) Indigenous techniques of product development and economic potential of Seabuckthorn: a case study of cold desert region of HP, India. *Proc. Nat. Acad. Sci.* 82 (3) 391-98.
34. MALIK AND BUTOLA (2010) Production potential of Agri-horticulture System in Temperate Himalaya: an experimental trial in North Kashmir, India. *Indian Journal of Horticulture* 67 (4): 142-145.
35. BUTOLA, JS (2010) Post-cultivation evaluation of germplasm in Himalayan threatened medicinal herbs: Implication for ex-situ cultivation and conservation. *National Academy Science Letters* 34 (1-2): 49-58.
36. BUTOLA, JS AND SAMANT (2010) Medicinally important species of *Hypericum* in Indian Himalayan Region: Implication for conservation and sustainable utilization. *Medicinal Plants* (4)2: 104-110.
37. BUTOLA et al. (2010) Technology for propagation and cultivation of *Angelica glauca* Edgew.: a high value Himalayan threatened medicinal cum edible herb. *Medicinal Plants* 2 (1): 67-72.
38. BUTOLA AND MALIK (2010) Survival and Phenophases of some Himalayan Medicinal Plants cultivated at different altitudes: a case study of district Kullu, HP. *Int. J. For. Usu. Manag.* 11 (2): 86-93.
39. BUTOLA, JS (2009) Transplantation age of *Angelica glauca* Edgew and *Heracleum candicans* Wall seedlings: two high value threatened Himalayan medicinal herbs. *J. Tropical Agriculture* 47 (1-2): 74-76.
40. BUTOLA AND BADOLA (2008) Chemical induction of seed germination and seedling growth in Seabuckthorn (*Hippophae rhamnoides* L.): a multipurpose plant species. *J. Plant Biology* 35 (1): 75-80.
41. SHARMA AND BUTOLA (2008) Role of Minor Forest Produce in the livelihoods of Gaddis: a Tribal community in Bharmour region, Himachal Pradesh, India. *Int. J. For. Usu. Manage.* 9 (2): 68-83.
42. BUTOLA AND BADOLA (2007) Growth, phenology & productivity of *Dactylorhiza hatagirea*, a crit. Endan. med. orchid in Himalaya: domestication compared with wild. *Int. J. Orch. Soci.* 20 (1-2): 37-43.
43. BUTOLA AND SAMANT (2007) Effect of different growth environments on seed germination and growth performance of seedlings of Ashwagandha. *Ind. J. For.* 30 (4): 529-534.
44. BUTOLA et al. (2007) Effect of pre-sowing seed treatments in *Hypericum perforatum* Linn.: a high value medicinal plant. *Seed Research* 35 (2): 205-209.
45. BUTOLA AND BADOLA (2006) Effects of growing medium on vegetative propagation of Himalayan end. medicinal plants, *A. glauca* & *H. candicans* using rhizome segments. *J. Hill Res.* 19 (2): 65-70.
46. BUTOLA AND BADOLA (2006) Chemical treatments to improve seedling emergence, vigour and survival in *Heracleum candicans* Wall. (Apiaceae): a high value threatened medicinal and edible herb of Himalaya. *Journal of Plant Biology* 33 (3): 215-220.
47. BUTOLA AND BADOLA (2006) Assessing seedling emergence, growth and vigour in *A. glauca* & *H. candicans* under different growing media and environments. *J. Non-Tim. For. Prod.* 13 (2): 141-153.
48. BUTOLA AND BADOLA (2004) Effect of pre-sowing treatment on seed germination and seedling vigour in *Angelica glauca*, a threatened medicinal herb. *Current Science* 87 (6): 796-799.
49. BUTOLA AND BADOLA (2004) Seed germination improvement using chemicals in *Heracleum candicans* Wall, a threatened medicinal herb of Himalaya. *Indian Forester* 130 (5): 565-572.