

## Dr. Narender Kumar Bharat

### Professor and Head



Specialization: Plant Pathology, Biological control, Natural Farming

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### Ongoing Research Projects

- ICAR mega seed project on Seed production of agricultural crops and fisheries (Principal Investigator)
- Mission for Integrated Development of Horticulture, Govt. of India - Popularization of cultivation of spices in H.P. (Principal Investigator)
- Production of Quality Seed of Vegetable Crops for Distribution to Farmers of Tribal Area to Enhance Crop Productivity under Natural Farming, Tribal Dev Dept., MoTA, GOI (Principal Investigator)
- All India Coordinated Research on Biological Control of Crop pests and weeds funded by ICAR (Co- Principal Investigator)
- Enhancing farm income through climate resilient Subhash Palekar Natural Farming System in Horticulture Ecosystems, Prakritik Kheti Khushhal Yojana, Deptt. of Agriculture, Govt. of HP (Co- Principal Investigator)
- Agroecological Crop Protection: Towards International Co-innovation Dynamics and Evidence of Sustainability (ACROPICS), European Research Executive Agency (REA) (Co- Principal Investigator)

### Important Research Publications

- Divyanshu, Sharma S, Chandel RS, Vashishat R, Verma SC, Verma S, Bharat NK, Thakur KS, Dev I, Chauhan S, Chandel A, Kishore K and Kumar A. 2025. Evidence of transitioning apple farming to an agro-ecological model in Himachal Pradesh. *Frontiers in Nutrition* **12**:1611137, 1-14.
- Parwan S, Gautam HR, Bharat NK, Aravinthkumar A, Suchita S and Sharma S. 2025. Potential of epiphytic yeasts against *Alternaria brassicicola* causing alternaria leaf spot of cauliflower. *Bangladesh Journal of Botany* **54**(1): 175-176.
- Sharma R, Gautam S, Verma SC, Sood G, Bharat NK, Thakur KS, Chandel A, Thakur US, Bishist R, Sharma S, Kumar P, Chandel RS. 2023. Influence of modified atmospheric packaging on self-life and quality of naturally grown tomato (*Solanum lycopersicum* L.) stored under different conditions. *Brazilian Archives of Biology and Technology* **66**:e23220466, 1-17.
- Vinay, Sharma R, Bharat NK, Thakur KS and Kumar P. 2022. Effect of seed coating and foliar spray treatments on plant growth, seed yield and economics of seed production in garden pea (*Pisum sativum* L.). *Indian Journal of Ecology* **49**(2):378-382.
- Rohiwala P, Bharat NK. 2021. Foliar application of plant defense elicitors on seed crop affects *Alternaria* leaf and pod spots as well as seed quality parameters in radish. *Agricultural Research Journal* **58**(3):451-459.
- Negi S, Bharat NK and Kumar M. 2021. Effect of seed biopriming with indigenous PGPR, Rhizobia and Trichoderma sp. on growth, seed yield and incidence of diseases in french bean (*Phaseolus vulgaris* L.). *Legume Research* **44**(5):593-60.

- Singh S, Malik AK, Bharat NK, Singh H and Kumar S. 2020. Effect of abiotic hot water seed treatment on capsicum (*Capsicum annuum*) growth and yield. *Indian Journal of Agricultural Sciences* **90** (4):809-812.
- Singh S, Bharat NK, Singh H, Kumar S, Jakhar S and Vijay. 2019. Effect of hot water treatment of seeds on seed quality parameters and seedling growth parameters in bell pepper (*Capsicum annuum*). *Indian Journal of Agricultural Sciences* **89**(1):133-137.
- Kumar R, Kumar M, Dogra RK and Bharat NK. 2015. Variability and character association studies in garden pea (*Pisum sativum* var. *hortense* L.) during winter season at mid hills of Himachal Pradesh. *Legume Research* **38**(2):164-168.
- Gupta M, Bharat N, Chauhan A and Vikram A. 2013. First report of bacterial leaf spot of coriander caused by *Pseudomonas syringae* pv. *coriandricola* in India. *Plant Disease* **97**(3): 418.

## Books and manuals

- Sharma R, Verma R, Bharat NK, Sultanpuri S and Kumari M. 2023. Commercial Cultivation of Spice Crops in Hilly Areas (Parvatiya Kshetron Mein Masala Faslon Ki Vyavsayik Kheti). Department of Seed Science and Technology, COH, YS Parmar UHF, Nauni, Solan, 55p.
- Gautam HR, Bharat NK, Handa A and Sharma SK. 2022. Novel Strategies in Plant Stress Diagnosis and Management. Neoti Book Agency Pvt. Ltd., New Delhi, 444p, ISBN: 9788195218554.
- Bharat NK and Gautam HR. 2021. Technology Strides in Plant Health Management. Neoti Book Agency Pvt. Ltd., New Delhi, 506p, ISBN: 9788194566403.
- Bharat NK and Sharma MK. 2020. Manual on Disease Diagnosis in Seed Crops (Vegetables & Spices). Department of Seed Science and Technology, COH, YS Parmar UHF, Nauni, Solan, 52p.
- Gautam HR, Chandel S, Bharat NK and Verma S. 2014. Disease Diagnosis in Horticultural Crops. Department of Plant Pathology, COH, YS Parmar UHF, Nauni, Solan, 44p.
- Bhardwaj RK, Bharat N and Kumar D. 2011. Production Technology of Pea and French Bean (Matar Va Frash been Ki Kheti), Directorate of Extension Education, YS Parmar UHF, Nauni, Solan, 62p. ISBN:9788192113531
- Bawa R, Bharat NK, Rana VK, Sud A and Sharma DP. 2007. Handbook of Apple Cultivation: Problems and Remedies for Cold Desert and Dry Temperate Zone. Shiva Offset Press, Dehradun, 142p.

## Awards & Recognitions

- SADHNA (IJFS) best research paper award 2024.
- Selected for international exposure visit under ICAR, NAHEP-IDP to Queensland, Australia during March, 2023.
- Best research paper award in national symposium of HPS during 2023.
- Scroll of honour by Indian Phytopathological Society, IARI, New Delhi during 2012.
- Member of expert committee for research formulation and evaluation on natural farming for KVKs of HP, Haryana, Rajasthan & West Bengal.
- Subject expert for evaluation of research projects of HFRI, Shimla, FRI, Dehradun.
- Editor of Journal: Indian Phytopathology (Springer).
- University merit scholarship in Ph.D.
- University merit scholarship in M.Sc.
- ICAR merit scholarship in B.Sc. (Ag.)