

**Dr NK Bharat**  
Professor and Head



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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)
- 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)

### Important Research Publications

- 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.
- Gautam HR, Kumar R, Bhardwaj ML and Bharat NK. 2013. Women surge ahead in agriculture education growth. *Current Science* **105**(9):1201.

- Mehta P and Bharat NK. 2013. Effect of indigenous arbuscular-mycorrhiza (*Glomus* spp.) on apple (*Malus domestica*) seedlings grown in replant disease soil. *Indian Journal of Agricultural Sciences* **83**:61-66.

### **Books and manuals**

- 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.

### **Awards & Recognitions**

- Scroll of honour by Indian Phytopathological Society, IARI, New Delhi
- Selected for international exposure visit under ICAR, NAHEP-IDP to Queensland, Australia during March, 2023.
- University merit scholarship in Ph.D.
- University merit scholarship in M.Sc.
- ICAR merit scholarship in B.Sc. (Ag.)