

Dr Neelam Kumari

Scientist

Specialization: Fruit Pathology

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Ongoing Research Projects

- Evaluation of New and Brand Name Fungicides/Formulations against Plant Diseases funded by fungicide companies for from January 1985 to long term (Co-Principal Investigator).
- Evaluation of bio-efficacy and phytotoxicity of UPF 1317 against major post harvest diseases of apple and citrus in Himachal Pradesh” amounting Rs. 16.33 lakh sponsored by UPL Sustainable Agri Solutions Limited (Principal Investigator).
- Evaluation of bio-efficacy and phytotoxicity of PIF 320 against major post harvest diseases of apple in Himachal Pradesh” amounting Rs. 9.31 lakh sponsored by PI Industries Limited (Principal Investigator).
- Assessment of phyto-toxicity from drone-based application of tebuconazole 6.7% + captan 26.9% w/w SC (Shamir) against Alternaria Leaf Blight, Powdery Mildew and Scab on apple crop amounting Rs. 4.60 lakh sponsored by ADAMA India Private Limited (Principal Investigator).

Important Research Publications

- Neelam K, Anita, Satish SK, Meenu G, Naveen CS, Nisha T. 2026. Prevalence of Collar Rot of Apple in Himachal Pradesh and its Management through Antagonistic Microorganisms. *Plant Science Today* **13**(sp1): 01-12.
- Saini oshin, Neelam K, Sharma S K, Sharma Naveen C. 2026. Weather dynamics drive Alternaria leaf blotch progression in apple: integration of predictive modeling and host response. *Journal of Plant Pathology*. <https://doi.org/10.1007/s42161-026-02132-z>.
- Kritika, Meenu G, Mehta DK, Anjali C, Neelam K, Reena K. 2025. Impact of bioinoculants and chemical fertilizers on soil properties of garlic (*Allium sativum*) cv. solan selection. *AATCC Review 2025* (329-333).
- Pathania Sweta and Neelam K. Comparative Status of Foliar Diseases and Soil Microbiome in Natural and Chemical Farming Systems of Apple Production. *Plant Archives* **25**(1): 2813-2822.
- Pathania S, Neelam K and Sharma A. 2023. Comparative effect of natural and chemical farming systems of apple production on soil physio-chemical properties,

leaf mineral content and fruit quality. *International Journal of Plant & Soil Science* **35**(15), 48–59.

- Neelam K and Sharma JN. 2019. Effect of post-harvest treatments and storage conditions on physico-chemical properties of Starking Delicious apples. *International Journal of Current Microbiology and Applied Sciences* **8**(04): 2347-2361.
- Singh D, Bhatia HS, Sharma SD, Sharma NC, Kumar P and Neelam K. 2019. Foliar and soil N fertilization as a function of cropping behavior of Royal Delicious apple (*Malus domestica*). *Indian Journal of Agricultural Sciences* **89**(4): 596-603.
- Neelam K, Sharma JN and Singh D. 2019. Hot water dipping and UV irradiation of apples to control fruit rots. *International Journal of Economic Plants* **6**(1): 014-017.
- Singh D, Bhatia HS, Neelam K and Thakur AK. 2018. Effect of nitrogen fertilization on cropping behavior and quality of Royal Delicious apples in temperate ecosystem. *Journal of Hill Agriculture* **9**(2): 158-164.
- Neelam K and Ram V. 2015. Evaluation of pomegranate germplasm for resistance against leaf spot and dry fruit rot (*Coniella granati*). *International Journal of Farm Sciences* **5**(2): 97-104.
- Neelam K, Ram V and Sharma IM. 2015. Prevalence and management of leaf spot and dry fruit rot (*Coniella granati*) of pomegranate. *International Journal of Farm Sciences* **5**(2): 105-113.
- Neelam K and Ram V. 2015. Influence of epidemiological parameters on the development and spread of leaf spot and dry fruit rot (*Coniella granati*) of pomegranate. *Journal of Agrometeorology* **17**(2): 259-260.

Books and manuals

- Thakur AK, Neelam K and Kaith NS. 2019. Gap filling in French bean early spring crop through plug nursery for income enhancement. In: Rana RK, Singh R, Thakur AK, Chahal V P and Singh AK (Eds). 2019. *Contemplating Agricultural Growth through Farmers' Frugal Innovations*. ICAR-ATARI-1, Ludhiana, Punjab: 65-66. (ISBN: 978-81-941899-0-9).
- Thakur AK, Neelam K and Kaith NS. 2019. Attractive income through innovative breed up-gradation. In: Rana RK, Singh R, Thakur AK, Chahal V P and Singh AK (Eds). 2019. *Contemplating Agricultural Growth through Farmers' Frugal Innovations*. ICAR-ATARI-1, Ludhiana, Punjab: 155-156. (ISBN: 978-81-941899-0-9).
- Neelam K, Kaith NS and Thakur AK. 2019. Income Enhancement through Innovative Low-Cost Oyster (Dhingri) Mushroom Cultivation. In: Rana RK, Singh R, Thakur AK, Chahal V P and Singh AK (Eds). 2019. *Contemplating Agricultural Growth through Farmers' Frugal Innovations*. ICAR-ATARI-1, Ludhiana, Punjab: 77-78. (ISBN: 978-81-941899-0-9).

- Neelam K, Singh D and Thakur AK. 2018. Alternative approaches for the management of post-harvest diseases of fruits. In, Alternative Approaches in Plant Disease Management. Sharma SK, Gautam HR (Eds). Neoti Book Agency Pvt. Ltd., New Delhi, India: 522-553. (ISBN: 978-8193608159).
- Neelam K, Kaith NS, Bandana, Thakur AK and Banshtu T. 2018. Innovative grafting recuperated collar rot damage in apple. In, Agri-Innovators: The Torch Bearers of Brighter Agriculture. Singh R, Rana Rajesh K, Chahal VP, Singh AK (Eds). ICAR-ATARI, Zone-I, Ludhiana, India: 61-64. (ISBN: 978-93-5321-999-4)