

## Dr Ranjna Sharma

Assistant Professor

Specialization: Soil Microbiology, Environmental Microbiology

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### Awards & Recognitions

- Qualified National Eligibility Test (ICAR), Microbiology, 2014
- Recipient of University Merit Scholarship during Ph.D
- Awarded best Ph.D. Research award by Society for the Advancement of human and Nature in the year 2014.
- Awarded Women Scientist B (WOS-B) award by Department of Science and Technology, GOI, New Delhi in the year 2019
- Awarded Best Oral and Poster awards to M.Sc. and Ph.D students in international conference “Microbial Innovations for Sustainable Development” dt: 20-21, Feb. 2026 held at Graphic Era University, Dehradun.

### Ongoing Research Projects as CO-PI

- All India Network Project on Soil Biodiversity-Biofertilizers
- Efficacy Studies of Phosphate Rich Organic Manure (PROM) on important Vegetable crops of Himachal Pradesh funded by Department of Fertilizers, Ministry of Chemicals and Fertilizers) Government of India, GOI, New Delhi for ₹ 98.00 Lakhs from January 2025 to January, 2028 (Co-PI)

### Important Research Publications

- Sharma Ranjna, Sharma Shweta, Jandaik Savita, Mishra Neha, Sharma Subhash, Pathania Radhika. 2025. Effect of microbial enriched bio formulations on different agronomic traits of replanted apple rootstocks. *Applied Fruit Science* 67:283 <https://doi.org/10.1007/s10341-025-01502-8>
- Thakur Preeti, Jandaik Savita, Gularia Shikha, Sharma Annu, Sharma Ranjna and Singh Rajender. 2025. Exploring the Potential of Spent *Pleurotus eryngii* Substrate to Cultivate *Pleurotus florida* with Enhanced Productivity, Nutritional Profile, and Therapeutic Potential. *International Journal of Medicinal Mushrooms*, 27 (2) :47-57 DOI: 10.1615/IntJMedMushrooms.2024056896
- Sharma Ranjna, Sharma Aditi, Mishra Neha, Sankhyan Neeraj, Verma Shalini, Negi H S, Kumari Manorma, and Pathania Radhika. 2024. Biological approaches for the management of replant disease: a mini review. *AATCC Journal* 210-217
- Sharma R and Sharma S. 2022. Development of native *Pseudomonas aeruginosa* bioformulations with plant growth promoting potential for apple crop in Himachal Pradesh. *Journal of Plant Nutrition* 45 (7): 1041-1052.
- Kaur M, Thakur M, Sagar V and Sharma R. 2022. Diversity of culturable gut bacteria of diamondback moth, *Plutella xylostella* (Linnaeus) (Lepidoptera: Yponomeutidae) collected from different geographical regions of India. *Molecular Biology Reports* 1-15.
- Pal J, Sharma SK, Devi S, Sharma R, Raj H, Monika K, Verma S, Vedula PR and Sharma

- A. 2020. Screening, identification and colonization of fungal root endophytes against *Dematophora necatrix*: a ubiquitous pathogen of fruit trees. *Egyptian Journal of Biological Pest Control* **30**: 111-112.
- Sharma R, Rana S and Kaur M. 2019. Isolation of Plant Growth Promoting fluorescent *Pseudomonas* from mid- Himalayan apple orchards and their similarity analysis. *National Academy Science Letters* **42**(3): 277-281.
  - Rana Sheetal, Sharma Ranjna and Kaur Mohinder. 2020. Biocontrol potentialities of native *Pseudomonas* isolates of Himachal Pradesh against plant pathogenic fungi *Dematophora sp.*, *Fusarium sp.*, *Pythium sp.* and *Sclerotium sp.* of apple rhizosphere. *Journal of Pharmacognosy and Phytochemistry*, 9 (5): 1079-1083
  - Thakur R, Tomar M, Sharma R. 2022. Survey, pathogenicity and molecular characterization of root pathogens associated with root rot of *Cedrus deodara* (Roxb.) G. Don in District Solan, Himachal Pradesh, India. *International Journal of Environment and Climate* 12(12): 1079-1092
  - Sharma R, Sharma R and Thakur A. 2018. Development and evaluation of vitamin C enriched low calorie *Aloe vera*-anola blended functional squash using stevioside. *Indian Journal of Horticulture* **75** (2):289-294.
  - Rana S, Sharma R and Kaur M. 2016. Biochemical characterization of fluorescent *Pseudomonas* species isolated from normal and replant sites of apple orchards. *International Journal of Farm Sciences* **5**(3): 165-170.
  - Rana S, Sharma R and Kaur M. 2014. RAPD Analysis of Fluorescent *Pseudomonas* isolates from apple and pear rhizosphere. *Ecology, Environment and Conservation* **20**: 127-133.
  - Sharma R, Rana S, Singh SP and Kaur M. 2014. Organic acid production as a function of phosphate solubilization by *Pseudomonas aeruginosa* strain An-G isolated from temperate zone of H.P. *Journal of Pure and Applied Microbiology* **8** (6): 4715-4718.
  - Sharma N, Kapoor R, Gautam N and Kumari R. 2011. Purification and characterization of Bactreocin produced by *Bacillus subtilis* R 75 isolated from fermented chunks of Moong bean (*Phaseolus radiatus*). *Food Technology and Biotechnology* **49**(2): 169-17
  - Sharma V P, Kumar S and Kumari R. 2006. Symptomology and Control of Cobweb Disease in Oyster Mushroom. *Mushroom Research: An International Journal* **15**: 55-58.