

Dr Ranjna Sharma

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Specialization: Soil Microbiology

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Ongoing Research Projects

- Rejuvenation and management of senile apple orchards for sustainable fruit production in Himachal Pradesh funded by Department of Science and Technology, GOI, New Delhi for ₹ 26.73 Lakhs from October 30, 2019 to October 29, 2023 (Principal Investigator).

Important Research Publications

- 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.
- 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.
- 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.
- 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): 169-176.

- 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.

Awards & Recognitions

- 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.