

## Dr. Neerja S. Rana

### Associate Professor



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### Ongoing Research Projects

- Development of microbial consortia for bioremediation of Solid waste funded by in house Research grant from 2023-2024(PI)
- Studies on extraction and microencapsulation of phenolic compounds from *Lantana camara* and their biological effectiveness against pathogenic microbes.
- Studies on extraction and microencapsulation of phenolic compounds from *Acorus calamus* and their biological effectiveness against pathogenic microbes.

### Important Research Publications

- Kaundal S, **Rana N**, Kumar Y, Alhewairini SS, Barasarathi J, Haron FF and Rebouh NY. 2025. Biofilmed multifarious rhizobacterial isolates of tomato rhizosphere of North-Western Himalayas promote plant growth in tomato. *Frontiers in plant sciences* 16:1610707.
- Akanksha, Sharma SK, Gupta BK, **Rana N**, Sharma A and Verma P. 2025. Biocontrol potential of Trichoderma-derived chitinase: optimization, purification, and antifungal activity against soilborne pathogens of apple. *Frontiers in Fungal Biology* 6:1618728.
- Thakur P, Paul Sharma D, Singh Rana V and **Rana N**. 2025. Different Rooting Media and Planting Time Influence the Performance of Hardwood Cuttings of Kiwifruit Under Polyhouse Conditions. *Applied Fruit Science*, 67(2), p.76.
- **Rana N**, Sharma P, Chauhan S and Ghabru A. 2025. Isolation and Characterization of Mushroom Growth Promoting Bacteria from Spent Mushroom Compost of *Lentinula edodes*. *International Journal of Economic Plants*, 12(Nov, 6).
- **Rana N**, Manjula A, Ghabru A and Chauhan S. 2025. Characterization of bacteria that promote growth from spent mushroom compost and their effectiveness on the yield and quality of white button mushrooms. *Asian J. Soil Sci. Plant Nutr.*, 11, pp.359-380.
- Rana K, **Rana N**, Devi S and Chauhan N. 2024. Bioprospecting fruit waste to purify invertase for low calorie food products. *Biocatalysis and Biotransformation*, 42(5), pp.591-598.
- Patiyal V, Rana VS, **Rana N**, Hashem A, Abd\_Allah EF and Sharma S. 2024. Appraisal of extended cane length and fruit thinning strategies on the performance of growth yield and quality of kiwifruit. *Heliyon*, 10(8).
- Meenakshi, **Rana N**, Bharti, Chauhan A, Sankhyan N and Arti. 2023. Exploring Intraspecific Provenance Variation in Seed Morphological Traits of *Albizia procera* in Mid-Himalayan Region of India. *Journal of Tropical Forest Science* 35(2): 168-178.

- Rana K, **Rana N**, Chauhan N, Devi S, Gabru A and Chauhan S. 2022. Comparative study of *Bacillus* and *Enterobacter* for upscaling of invertase production for utilization in food industry. *Journal of food Measurement and characterization* **5**(1): 60-63.
- Ghabru A, **Rana N** and Chauhan S. 2022. Nutraceutical benefits of Himalayan fern (*Diplazium esculentum* (Retz.) Sw.). *Annals of Phytomedicine* **11**(2): 82-91.

## Books

- Rana N, Ghabru A and Rana V. 2022. Biochemical analysis of Fruit and Vegetables. (EDS) Rana *et al.*, Integrated publications, New Delhi, pp102.
- Rana N, Ghabru A and Rana K. 2020. General Food Biochemistry. AkiNik publications, New Delhi, pp100.
- Rana VS, Rana N and Sharma S. 2025. Advances in growth regulation of fruit crops. (EDS). CRC Press, Taylor and Francis group, Boca Raton, pp249.

## Awards and Recognitions

- Best Article Award for article '*Morchella esculenta* (Guchhi: Medicinally important Fungi of Himalayas)' from Agriculture and Food News letter dated (21/10/2022).
- Best Teacher Award by Glacier Journal Research foundation in 2020.
- Adrash Vidya Sarswati award by president of Global Management Council Ahmadabad on September 5, 2020.
- Young Scientist award in "8<sup>th</sup> Academic achievement awards 2020" by Dr D.C. Singh Chief Advisor Research on 6<sup>th</sup> Sept 2020 by EETCRS, Research wing, Mumbai India.
- Best oral paper presentation entitled "Selection and Evaluation of Plant Growth Promoting Rhizobia for Improvement of *Albizia Procera*" at International Conference on Climate Change, Biodiversity and Sustainable Agriculture (ICCBSA-2018) held at Assam Agricultural University, Jorhat from December 13-16<sup>th</sup> December, 2018.
- World bank awarded fellowship during Ph.D. programme from ICFRE-DEHRADUN

