

Dr Sunita Devi
Assistant Professor

Specialization: Environmental Microbiology, Soil Microbiology,
Microbial Biotechnology

Contact: +91 1792 252282

Cell: 94180 14742

E-mail: sunitabsc@yaspuniversity.ac.in ; sunitachamba@gmail.com



Ongoing Research Projects

- Externally funded project on “Bioconversion of waste chicken feathers into N-rich organic fertilizer by keratinolytic bacteria for effective waste management in Himachal Pradesh” funded by Department of Environment, Science & Technology, Shimla, Govt. of Himachal Pradesh for ₹ 6. 16 lakhs from 2022-2024 (Principal Investigator).
- Externally funded project on, “Exploration of gut microbiome for sustainable beekeeping” funded by National Bee Board under NBHM of DAC, Ministry of Agriculture and farmers welfare, Govt. of India for ₹ 9.00 lakhs from 2022-2024 (Co-Principal Investigator).

Important Research Publications

- Devi S, Sharma P, Sharma R and Thakur M. 2023. Current Status and Medicinal Prominence of *Arnebia euchroma* (Ratanjot): A Critically Endangered Plant of Trans-Himalayan Region. *Recent Patents on Biotechnology* **17**(1):92-102.
- Devi S, Sharma P, Sharma N, Chauhan S, Sharma A and Thakur M. 2023. Microbial biofilms: Beneficial and detrimental impacts. *Journal of Microbiology, Biotechnology and Food Science*. 20xx: x (x) e5211. DOI - 10.55251/jmbfs.5211.
- Devi S, Chauhan A, Bishist R, Sankhyani N, Rana K and Sharma N. 2022. Production, partial purification and efficacy of keratinase from *Bacillus halotolerans* L2EN1 isolated from the poultry farm of Himachal Pradesh as a potential laundry additive. *Biocatalysis and Biotransformation*: 1-21.
- Devi S, Parihar A, Thakur M, Thakur B and Sharma HK. 2021. Antibacterial potential of hive bees honey from Himachal Pradesh, India. *Archives of Microbiology* **203**: 5029–5041.
- Singh AK, Bhardwaj SK and Devi S. 2021. Microbiological status of drinking water sources and its relationship with human health in Solan, India. *Environmental Monitoring and Assessment* **93**(1): 1-1121.
- Thakur M, Gupta N, Sharma HK and Devi S. 2021. Physico-chemical characteristics and mineral status of honey from different agroclimatic zones of Himachal Pradesh, India. *British Food Journal* **123**(11): 3789-3804.
- Sharma R and Devi S. 2019. A novel and discernible plate assay method for the qualitative screening of bacterial keratinase. *Indian Journal of Biotechnology* **18**(2): 174-180.
- Sharma R and Devi S. 2018. Versatility and commercial status of microbial keratinases: a review. *Reviews in Environmental Science and Bio-Technology* **17**(1): 19-45.
- Devi S, Sharma CR and Singh K. 2012. Microbiological biodiversity in poultry and paddy straw wastes in composting systems. *Brazilian Journal of Microbiology* **43**(1): 288-296.
- Gulati A, Sood S, Rahi P, Thakur R, Chauhan S and Chawla I. 2011. Diversity analysis of Diazotrophic bacteria associated with the roots of Tea (*Camellia sinensis* (L.) O. Kuntze). *Journal of Microbiology and Biotechnology* **21**(6): 545-555.

Book

- Devi S, Rana K, Sankhyan N and Kaul R. 2023. Advances and Applications in Microbial Physiology. Cambridge Scholars Publishing, UK. ISBN (10): 1-5275-9224- 3; ISBN (13): 978-1-5275-9224-7. Pg: 1-125

Awards & Recognitions

- Qualified National Eligibility Test (NET) conducted by Agricultural Scientists Recruitment Board (ASRB), ICAR in 2001 in the subject of Microbiology (Agriculture).
- Recipient of University Merit Scholarship during M.Sc.
- Received Certificate of Honour in M.Sc.
- Recipient of Rajiv Gandhi National Fellowship of UGC during Ph.D. Initially as JRF for two years and as SRF from 3rd year onwards
- Received “Kanwar Virender Singh Memorial All India Best Publication Award 2021” award for the book chapter - Devi S and Soni R 2020. Relevance of microbial diversity in implicating soil restoration and health management. In: Soil health restoration and management (RS Meena, ed), Springer Nature Singapore Pvt Ltd, pp 161-202, from Society for advancement of Human and Nature (SADHNA), Dr Y S Parmar University of Horticulture and Forestry, Nauni- Solan (HP).
- Received “Uma Datt Mamgain Memorial Research Award 2021” award for M.Sc. student thesis work - Sharma Pooja 2019.
- Received “Jagar Nath Raina Memorial All India Best Publication Award- 2018” award for the research publication
- Developed a novel and discernible plate assay method for the qualitative screening of bacterial keratinases.