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Professor and Head



Specialization: Applied Microbiology
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On-Going Research Project

- Validation and dissemination of technology as an enterprise for production of oyster mushroom using apple pomace for the upliftment of rural economy of Himachal Pradesh Funded by HIMCOSTE, H.P. Govt. Shimla

Important Research Publications

- Sharma S, Sharma N, Kaushal N. 2023. Utilization of novel bacteriocin synthesized silver nanoparticles for their application in antimicrobial packaging for preservation of tomato fruit. *Frontiers In Sustainable Food Systems* **7**:1072738. DOI 10.3389/fsufs.2023.1072738
- Sharma N and Sharma N. 2021. Screening and molecular identification of hypercellulase and xylanase producing microorganisms for bioethanol production. *Current Science* **120** (5): 841-849
- Sharma S, Sharma N, Handa S and Pathania S. 2017. Evaluation of health potential of nutritionally enriched kodo millet grown in Himachal Pradesh, India. *Food Chemistry* **214**: 162-168
- Pathania S, Sharma N and Handa S. 2017. Immobilization of co-culture of *Saccharomyces cerevisiae* and *Scheffersomyces stipitis* in sodium alginate for bioethanol production using hydrolysate of apple pomace under separate hydrolysis and fermentation. *Biocatalysis and Biotransformation* **35**: 450-459
- Kaushal R, Sharma N and Dogra V. 2016. Molecular characterization of glycosyl hydrolases of *Trichomerma harzanium* WF5 a potential strain isolated from decaying wood and their application in bioconversion of poplar wood to ethanol under separate hydrolysis and fermentation. *Biomass and Bioenergy* **85**: 243-251
- Handa S and Sharma N. 2016. In vitro Probiotic Potential of *Lactobacillus delbreuckii* subsp. *bulgaricus* F18 Isolated from Homemade Butter. *Microbiology*. **86** (1): 143-149.
- Kaushal R, Sharma N and Dogra V. 2015. Optimization of the Production and Molecular Characterization of Cellulase Free Xylanase from an Alkalophilic *Bacillus subtilis* SD8 Isolated from Paper Mill Effluent. *Applied Biochemistry and Microbiology* **51**(5): 551–559
- Gupta A, Sharma N and Bajwa J. 2015. Evaluation of *E. faecium* CH1 isolated from Chulli – a traditional fermented apricot product of trans Himalayan Region. *SDRP Journal of Food Science and Technology* **2**(1): 1-12
- Gautam N and Sharma N. 2015. A study on characterization of new bacteriocin produced from a novel strain of *Lactobacillus spicheri* G2 isolated from gundruk- a fermented vegetable product of North-East India. *Journal of Food Science and Technology* **52**(9): 5808-5816
- Gautam N, Sharma N and Ahlawat O P. 2014. Purification and characterization of bacteriocin produced by *Lactobacillus brevis* UN isolated from Dulichar- a traditional food product of North East India. *Indian Journal of Microbiology* **54** (2): 185-189

Books and manuals

- Sharma N and Devi S. 2016. A laboratory manual on handling of microorganisms and relevant general microbiology techniques. Published by Directorate of Extension Education, UHF, Nauni, Solan: p 190.
- Sharma N and Sharma N. 2022. A manual on Exploring the Microorganism world and its commercial exploitation. Published by Directorate of Extension Education, UHF, Nauni, Solan: p 410.

Awards and Recognitions:

- State Innovation Award by H.P. Govt.- 2022
- Best Faculty Award 2021- University of Horticulture and Forestry, Nauni, Excellence in Research Publications by UHF, Nauni
- “Utkrishat Naari Sammaan” by Himachal Dastak
- VIFA - Distinguished Faculty in Science Award 2017
- Biography included in “Who is Who in the World”, Marquis, USA
- Honorary member of Research board of advisors of American Biological Institute,” Inc USA
- “Outstanding Woman of the 20th Century,” ABI, USA
- Selected for “2000 Outstanding intellectuals of 20th century”, Cambridge England
- SVWS Award for Inspiring Women-2017
- VIFA Award for Distinguished Faculty in Science 2017
- Received SADHNA award for best PhD thesis for student; best MSc thesis for student (as Major Advisor)
- Certificate of Appreciation conferred by Dr YSPUHF, Nauni, Solan for Outstanding Contribution to the University-2019
- Recipient of CSIR, ICAR and UGC (JRF & SRF) Fellowships