

## Dr Neha Gautam

### Assistant Professor

Specialization: Microbial Biotechnology

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### Ongoing Project:

“Development of microbial consortia for bioremediation of solid waste” funded by in-house research grant from 2023-2024 (Co-PI)

### Best Research Publications

- Gautam N, Sharma N, Sharma N and Kumar S. 2022. Optimization of Growth Conditions for Enhanced Bacteriocin Production from UN by *Lactobacillus brevis* One Variable at a Time (OVAT) and Response Surface Methodology (RSM). *Indian Journal of ecology* 49(6): 2167-2173 (NAAS rating 5.79)
- Gautam N and Sharma N. 2015. Study on characterization of new bacteriocin produced from a novel strain *Lactobacillus spicheri* G2 isolated from Gundruk- a fermented vegetable product of North East India. *Journal of Food Science and Technology* 52(9): 5808-5816 (NAAS rating 8.70)
- Gautam N and Sharma N. 2015. Evaluation of probiotic potential of new bacterial strain *Lactobacillus spicheri*G2 isolated from Gundruk. National Academy of Sciences, India: Section B: Biological sciences 85(4):979–986 (NAAS Rating 6.24)
- Gautam N and Sharma N. 2014. Quality attributes of a novel cereal based probiotic product prepared by using food grade lactic acid bacteria. *Indian Journal of Traditional Knowledge* 13 (3): 525-530 (NAAS Rating 6.44)
- Sharma N, Gupta A and Gautam N. 2014. Characterization of bacteriocin produced by a new strain *B. borstelensis*AG1 isolated from *Marcha*. *Brazilian Journal of Microbiology* 45 (3): 1007-1015 (NAAS Rating 6.92)
- Gautam N, Sharma N. and Ahlawat O.P. 2014. Purification and characterization of bacteriocin produced by *Lactobacillus brevis* UN isolated from Dhulliachar -a traditional food product of North East India. *Indian Journal of Microbiology* 54 (2): 185:189 (NAAS Rating 7.53)
- Sharma N, Kapoor R, Gautam N and Kumari R. 2011. Purification and characterization of bacteriocin produced by *Lactobacillus* sp. A75 isolated from fermented chunks of *Phaseolus radiata*. *Food Technology and Biotechnology*. 49(2): 169-176 (NAAS Rating 7.52)
- Gautam N and Sharma N. 2009. Purification and characterization of purified bacteriocin produced by strain of *Lactobacillus brevis* MTCC7539. *Indian Journal of Biochemistry and Biophysics* 46:337-341.(NAAS Rating 6.36)
- Sharma N and Gautam N. 2008. Antibacterial activity and characterization of bacteriocin of *Bacillus mycoides* isolated from whey. *Indian Journal of Biotechnology* 7:117-121(NAAS Rating: 6.0)

- Gautam N and Sharma N. 2009. Review-Bacteriocin: Safest approach to preserve food. *Indian Journal of Microbiology* 49:204-211 (NAAS Rating: 7.53)

## Books

Sharma P, Gautam N and Sharma P. 2017. Microbiological and pharmacological aspects of Biodiversity. Discover Publishing House. New Delhi. ISBN No: 978935056878

## Awards and Recognitions

- **Best paper presentation award** for a paper entitled “Evaluation of physiochemical, microbiological and sensorial qualities of novel probiotic papaya curd prepared by using *L. brevis* UN and *L. spicheri* G2” In first Himachal Pradesh Science Congress, “*Role of Science and technology in sustainable development*” held from 15-16 October, 2014.