

Dr Karuna Dhiman

Assistant Professor

Specialization: Plant and Microbial Biotechnology

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Ongoing Research Projects:

- Development of cost effective micropropagation technique for commercial Citrus rootstock Rangpur lime (*Citrus limonia* Osbeck) funded by Rashtriya Krishi Vikas Yojana - Remunerative Approaches for Agriculture and Allied Sectors Rejuvenation, Shimla (HP) for ₹55.00 lakh from 2022 to 2023 (As Co-Principal Investigator)

Important Research Publications:

- Kumari R, Sinha N, Sharma S and Dhiman K. 2024. Biochemical characterization and antioxidant potential of *Phyllanthus emblica* L. *Int. J. Adv. Biochem. Res.*, 8(5): 901-906.
- Dhiman K, Sharma D, Kumari R and Tomar P. 2023. Biofortification of crops using microbes – a promising sustainable agriculture strategy. *J Plant Nutr.* 46 (12): 2912-2935. DOI:10.1080/01904167.2022.2160755
- Sharma VK, Sharma D, Sharma R, Sharma SD, Dhiman K, Murkute AA. 2023. Morpho-molecular exploration and selection of elite genotypes from indigenous *Syzygium cumini* L. Skeels (jamun) diversity of North-Western Indian Himalayas. *Plant Genetic Resources: Characterization and Utilization.* 21(4):312-322.
- Kumari R, Zangmo K, Jamra H, Dhiman K and Sharma V. 2022. Assessment of phytochemicals and phenylalanine ammonia Lyase activity of *Punica granatum* L. *The Pharm Innov J.* 11(5): 31-35.
- Dhiman K and Shirkot P. 2018. Bioprospecting and characterization of laccase producing bacteria from paddy fields of Himachal Pradesh. *Indian J Exp Biol.* 56: 334-341.
- Verma A, Shirkot P, Dhiman K, Sharma R and Chauhan A. 2019. First evidence of a potential antimicrobial activity of bacterial laccase against various plant pathogens. *Natl Acad Sci Lett.* 42(1): 5-8.
- Sharma A, Dhiman K, Ansari Z and Shirkot P. 2016. Thermostable lipase production by *Aneurinibacillus thermoaerophilus* MBW2 strain isolated from Indian hot water spring. *J Pure Appl Microbiol.* 10(2): 1197-1210.
- Verma A, Dhiman K and Shirkot P. 2015. Optimization for Laccase Production by *Pseudomonas putida* LUA15.1 using Response Surface Methodology. *J Pure Appl Microbiol.* 9(2):1247-1256.

Awards/Recognitions

- Women Excellence Award 2024 by Society of Agricultural Research and Social Development (SARSD), New Delhi, India
- Awarded HARBHAJAN SINGH MEMORIAL AWARD 2014 for best research paper by Indian Society of Vegetable Science
- Qualified ICAR ASRB National Eligibility Test (NET)- 2014
- Awarded DST-INSPIRE fellowship, DST, New Delhi from January 2011 to 2014
- Qualified Graduate Aptitude Test in Engineering (GATE)- 2010 with 96 percentile
- Awarded MSc Degree honours certificate for securing first rank.
- Award of College Role of Honour for securing overall Fifth position in BSc degree exam conducted by HP University