

## Dr Anjali Chauhan

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### Ongoing research projects

- Utilization of soil and plant microbial resources for enhancing the productivity of cropping systems and soil health under Jhum and terrace/valley agro ecosystems of Eastern and North-western Indian Himalayas” (As- Principal Investigator) under Himalayan Bioresource Mission, funded by DBT, GOI (₹ 31.73 lakh; 2022– 2025)
- Evaluation of Amino Plus on growth, yield and quality of chilli/capsicum, (As- Principal Investigator) funded by M/s Fertis India Private Limited(₹ 4.73 lakh; 2021 – 2023)
- All India Network project on Soil Biodiversity Biofertilizers (AINP)(As Co-PI) funded by ICAR (₹ 32lakhs; Long term).

### Important research publications

- Minakshi, Sood G and Chauhan A. 2023. Novel synergism of *Cedecial apagei* KU14 *Bacillus subtilis* KU21 for sustainability productivity of *Rosmarinus officinalis* in NW Himalayas. *Rhizosphere*. doi. or/10.1016/j.rhisph
- Thakur D, Chauhan A, Jhilt P, Kausha, R and Dipta, B. 2022. Microbial chitinases and their relevance in various industries. *Folia Microbiologica*. (<https://doi.org/10.1007/s12223-022-00999-w>)
- Chauhan A, Saini R, Sharma J C.2021.Plant growth promoting rhizobacteria and their biological properties for soil enrichment and growth promotion. *Journal of Plant Nutrition* **45** (2) 273-299
- Thakur D, Nath AK, Chauhan A and Gupta R. 2021. Purification, characterization, and antifungal activity of *Bacillus cereus* strain NK91 chitinase from rhizospheric soil samples of Himachal Pradesh, India. *Biotechnology and Applied Biochemistry*.1-3.<https://doi.org/10.1002/bab.2250>
- Minakshi, Sood G, Chauhan A. 2021. Bioprospecting beneficial endophytic bacterial communities associated with *Rosmarinus officinalis* for sustaining plant health and productivity. *World Journal of Microbiology and Biotechnology* 37(8)DOI:10.1007/s11274-021-03101-7
- Gautam S, Chauhan, A, Sharma R, Sehgal R and Shirkot CK. 2020. Potential of *Bacillus amyloliquefaciens* for biocontrol of bacterial Canker of tomato incited by *Clavibacter michiganensis* ssp. *michiganensis*. *Microbial Pathogenesis*. 130:196-203. doi: 10.1016/j.micpath. 2019.03.006
- Sood, G., Kaushal, R., Chauhan, A., Gupta, S.2018.Indegenous plant-growth promoting rhizobacteria and chemical fertilizers: Impact on wheat (*Triticum aestivum*) productivity and soil properties in North -western. *Crop and Pasture Science*.201869(5) DOI:1071/CP18016

- Chauhan A, Guleria S., Balgir, P P, Walia A, Mahajan R, Mehta P and Shirkot C. K. 2017. Tricalcium Phosphate solubilization and nitrogen fixation by newly isolated *Aneurinibacillus aneurinilyticus* CKMV1 from rhizosphere of *Valeriana jatamansi* and its growth promotional effect. *Brazilian journal of microbiology*. DOI:10.1016/j. bjm201612.001
- Guleria S, Walia A, Chauhan A and Shirkot C. K. 2016. Immobilization of *Bacillus amyloliquefaciens* SP1 and its alkaline protease in various matrices for effective hydrolysis of casein. *3Biotech*. DOI:10.1007/s13205-016-0519-2
- Guleria S, Walia A, Chauhan A and Shirkot C. K. 2016. Molecular characterization of alkaline protease of *Bacillus amyloliquefaciens* SP1 involved in biocontrol of *Fusarium oxysporum*. *International Journal of Food Microbiology* PMID: 27294522 DOI: [10.1016/j.ijfoodmicro.2016.05.030](https://doi.org/10.1016/j.ijfoodmicro.2016.05.030)

## Book

- Gupta B, Agrawal G and Chauhan A. 2022. Forest Fire Characteristics and Management. Studera Press, Delhi. pp 1-320. ISBN No. 978-81-947252-2-0 (Hardcover) and ISBN No. 978-81-953978-3-9 (E-book)

## Awards and Recognitions

- Awarded NAHEP overseas visit Fellowship under IDP from ICAR, as Visiting Scientist at Plant health Institute Montpellier, IRD, France (Dr Sergio Svistoonoff, Bali Group) w.e.f. 09-30 march 2023
- 2nd best paper award in oral presentation in International Conference on Water, Agriculture, Dairy and Food Processing for sustainable Economy (WADFPSE 2022).