Name : Dr Govind Kumar

Designation : Scientist

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Field of Specialization : Agricultural Microbiology

Name of Institute from where obtained M.Sc. degree:

GB Pant University of Ag. & Technology, Pantnagar

Name of Institute from where obtained Ph.D. degree:

GB Pant University of Ag. & Technology, Pantnagar

Joining date in ICAR : 7/2/2018

Publications (Top 10 Publications with first or corresponding author only):

1. Govind Kumar, Suman, A., Lal, S., Ram, R.A., Bhatt, P., Pandey, G., Chaudhary, P. and Rajan, S., 2021. Bacterial structure and dynamics in mango (Mangifera indica) orchards after long term organic and conventional treatments under subtropical ecosystem. Scientific reports, 11(1), pp.1-13.

2. Govind Kumar, Lal, S., Maurya, S.K., Bhattacherjee, A.K., Chaudhary, P., Gangola, S. and Rajan, S., 2021. Exploration of Klebsiella pneumoniae M6 for paclobutrazol degradation, plant growth attributes, and biocontrol action under subtropical ecosystem. PloS one, 16(12), p.e0261338.

3. Govind Kumar, Lal, S., Bhatt, P., Ram, R.A., Bhattacherjee, A.K., Dikshit, A. and Rajan, S., 2021. Mechanisms and kinetics for the degradation of paclobutrazol and biocontrol action of a novel Pseudomonas putida strain T7. Pesticide Biochemistry and Physiology, 175, p.104846.

4. Bhatt, P., Rene, E.R., Kumar, A.J., Gangola, S., Govind Kumar, Sharma, A., Zhang, W. and Chen, S., 2021. Fipronil degradation kinetics and resource recovery potential of Bacillus sp. strain FA4 isolated from a contaminated agricultural field in Uttarakhand, India. Chemosphere, 276, p.130156.

5. Chaudhary, P., Khati, P., Chaudhary, A., Maithani, D., Govind Kumar, and Sharma, A., 2021. Cultivable and metagenomic approach to study the combined impact of nanogypsum and Pseudomonas taiwanensis on maize plant health and its rhizospheric microbiome. PloS one, 16(4), p.e0250574.

6. Govind Kumar, Kumar, R. and Sharma, A., 2015. Characterization of biosurfactants from indigenous soil bacteria recovered from oil contaminated sites. Journal of environmental biology, 36(5), p.1101.

7. Chaudhary, P., Chaudhary, A., Parveen, H., Rani, A., Govind Kumar, Kumar, R. and Sharma, A., 2021. Impact of nanophos in agriculture to improve functional bacterial community and crop productivity. BMC plant biology, 21(1), pp.1-12.

8. Govind Kumar, Bhatt, P. and Lal, S., 2021. Phytoremediation: A Synergistic Interaction between Plants and Microbes for Removal of Petroleum Hydrocarbons. In Soil Contamination-Threats and Sustainable Solutions. IntechOpen.

9. Govind Kumar, Barman, P. and Bhatt, P., 2021. Functional AM Fungi in the Rhizosphere of Fruit Crops. In Microbial Metatranscriptomics Belowground (pp. 123-140). Springer, Singapore.

10. Bhatt, P., Gangola, S., Chaudhary, P., Khati, P., Govind Kumar , Sharma, A. and Srivastava, A., 2019. Pesticide induced up-regulation of esterase and aldehyde dehydrogenase in indigenous Bacillus spp. Bioremediation Journal, 23(1), pp.42-52.

Patent / Technologies / Varieties / Methodologies / System etc.:

CISH Bioenhancer: microbial product for plant growth promotion

CISH Bio-zapper: Microbial formulation for pesticide biodegradation and biocontrol action

No. of Students Guided (M.Sc.) : 2

No. of Students Guided (Ph.D.) : 1

Awards / Recognitions / Fellowship:

1. Springer Society of INDIA, Young Scientist Award, 2020

2. Young Scientist award by Agriculture and Environment technology development society, 2021

3. Awardee of DST Startup Grant by DST SERB, New Delhi (2019)

4. JRF, SRF and PDF by University Grants Commission (UGC), New Delhi (2008, 2010, 2014)

5. Active reviewer of Chemosphere, Pesticide bioche. & Physiology, Plos One, and other peer reviewed journals