Division of Crop Research

Personal Details

Dr. Saurabh Kumar
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Research Interest

Metagenomics, Plant-Microbe Interactions, Bacterial proteomics

Research Highlights

Memberships / Fellowships

i. Life membership of Association of Microbiologists of India
ii. Life membership of Society of Biological Chemists
iii. CSIR-Senior Research Fellow award 2017
iv. Graduate Aptitude Test in Engineering (GATE)-2016 (Life sciences)
v. CSIR- Junior Research Fellow award 2014 (Life Sciences)
vi. Teaching and Research assistantship award at G.B.P.U.A.&T. Pantnagar

Technology Developed

Publication Details

1. **Kumar, S.,**Suyal, D. C., Yadav, A., Shouche, Y., & Goel, R. (2020). Psychrophilic *Pseudomonas helmanticensis* proteome under simulated cold stress. *Cell Stress and Chaperones*, 1-8.

2. **Kumar, S.,**Suyal, D. C., Yadav, A., Shouche, Y., & Goel, R. (2019). Microbial diversity and soil physiochemical characteristic of higher altitude. *PloS one*, *14*(3), e0213844.

3. Suyal, D. C., Joshi, D., **Kumar, S.**, Soni, R., & Goel, R. (2019). Differential protein profiling of soil diazotroph *Rhodococcusqingshengii* S10107 towards low-temperature and nitrogen deficiency. *Scientific reports*, *9*(1), 1-9.

4. Joshi, D., Chandra, R., Suyal, D. C.,**Kumar, S.** & Goel, R. (2019). Impacts of bioinoculants *Pseudomonas jesenii* MP1 and *Rhodococcusqingshengii* S10107 on chickpea (*Cicer arietinum* L.) yield and soil nitrogen status. *Pedosphere*, *29*(3), 388-399.

5. Debbarma, P., Zaidi, M. G. H., **Kumar, S.**, Raghuwanshi, S., Yadav, A., Shouche, Y., & Goel, R. (2018). Selection of potential bacterial strains to develop bacterial consortia for the remediation of e-waste and its in situ implications. *Waste Management*, *79*, 526-536.

6. **Kumar, S.**, Suyal, D. C., Bhoriyal, M., & Goel, R. (2018). Plant growth promoting potential of psychrotolerant*Dyadobacter* sp. for pulses and finger millet and impact of inoculation on soil chemical properties and diazotrophic abundance. *Journal of Plant Nutrition*, *41*(8), 1035-1046.

7. Suyal, D. C., **Kumar, S.**, Joshi, D., Soni, R., & Goel, R. (2018). Quantitative proteomics of psychotrophic diazotroph in response to nitrogen deficiency and cold stress. *Journal of proteomics*, *187*, 235-242.

8. Suyal, D. C., **Kumar, S.**, Yadav, A., Shouche, Y., & Goel, R. (2017). Cold stress and nitrogen deficiency affected protein expression of psychrotrophic*Dyadobacterpsychrophilus*B2 and *Pseudomonas jessenii* MP1. *Frontiers in microbiology*, *8*, 430.

Google scholar:https://scholar.google.com/citations?user=vBCfZMsAAAAJ&hl=en

Research gate:https://www.researchgate.net/profile/Saurabh_Kumar68

Book Chapter

1. Joshi D., **Kumar S**., Suyal D.C**.**, Goel R. (2017). The Microbiome of the Himalayan Ecosystem. In: Kalia V., Shouche Y., Purohit H., Rahi P. (eds) Mining of Microbial Wealth and MetaGenomics. Springer, Singapore. Pp 101-116.