



Microbes in agriculture, industry and environment

Baljeet singh saharan

CCS Haryana Agricultural University, India

Abstract:

Microorganisms are present everywhere except fire. They are useful as well as harmful. They are responsible for the synthesis and production of many useful bio molecules. On the other hand, they degrade and deteriorate many useful products. The microbes are very useful in industry like bacteriocins and bio surfactant production etc. They are equally important in agriculture for example plant growth promoting (Rhizospheric as well as phyllospheric) bacteria exhibit many properties (biological nitrogen fixation, ACC deaminase, antifungal, siderophore, HCN & IAA production etc.), which help plant directly (nutrient supply) or indirectly (disease control). Microbes help in bioremediation (Rhizoremediation) and keep the environment clean. All the useful aspects of microbes especially bacteria for industry, agriculture and environment will be discussed in detail during the presentation.

Biography:

Baljeet Singh Saharan working at Department of Plant Pathology Washington State University, Pullman, WA, USA. He has published many research articles in reputed journals and has been serving as an editorial board member of repute.

Publication of speakers:

1. A review on biosurfactants: fermentation, current developments and perspectives
2. BS Saharan, RK Sahu, D Sharma, Genetic Engineering and Biotechnology Journal 2011 (1), 1-14



3. Identification of multi-trait PGPR isolates and evaluating their potential as inoculants for wheat, A Rana, B Saharan, M Joshi, R Prasanna, K Kumar, L Nain Annals of microbiology 61 (4), 893-900
4. Enhancing micronutrient uptake and yield of wheat through bacterial PGPR consortia A Rana, B Saharan, L Nain, R Prasanna, YS Shivay Soil Science and Plant Nutrition 58 (5), 573-582
5. Rudrashetti, Ashwinkumar & Dwivedi, Kshitiz & Sharma, Abhinav & Duvvuri, Bhavya & Juwarkar, Asha & Pandey, Ram. (2017). DEGRADATION OF SULFAMETHOXAZOLE BY UV-ASSISTED ADVANCED OXIDATION PROCESSES IN AQUEOUS MATRICES: A COMPARATIVE KINETIC STUDY. Journal of Indian Water Works Association. 49. 101-109.

Webinar on Applied Microbiology and Biotechnology

Citation: Baljeet singh saharan; Microbes in agriculture, industry and environment; Microbiology and Biotechnology 2020; June 26, 2020; France Time Zone