

## **Dr PANNALAL DEY**

Associate Fellow

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<https://scholar.google.com/citations?hl=en&user=1mGMiFcAAAAJ>

### **Research Areas:**

Dr. Pannalal Dey's research area is harnessing of beneficial microbial resources for crop improvement and development of bio-formulation with scaling up for mass production. His expertise is identification and characterization of Agriculturally Important Microorganisms (AIMs), development of their formulation, mass multiplication and biotic and abiotic stress management for crops. He has obtained PhD in Botany from University of North Bengal, Siliguri, India in 2011. In his thesis work he searched agriculturally important microorganisms from soils of river basins, forests and crop fields in the Terai-Dooars of North Bengal and analyzed their diversity. After completing his PhD, he served a position as Research Associate (RA) in the CSIR sponsored research project.

### **Current Research Involvements:**

1. Integrating bio-treated wastewater reuse with enhanced water use efficiency to support green economy by developing microbial consortia for reclamation of sugarcane fields
2. Bio-formulation containing mycorrhiza and micro-encapsulated modulating Rhizobacteria for higher shelf life and viability
3. Life Cycle Analysis of Agriculturally Useful Nanoparticles.