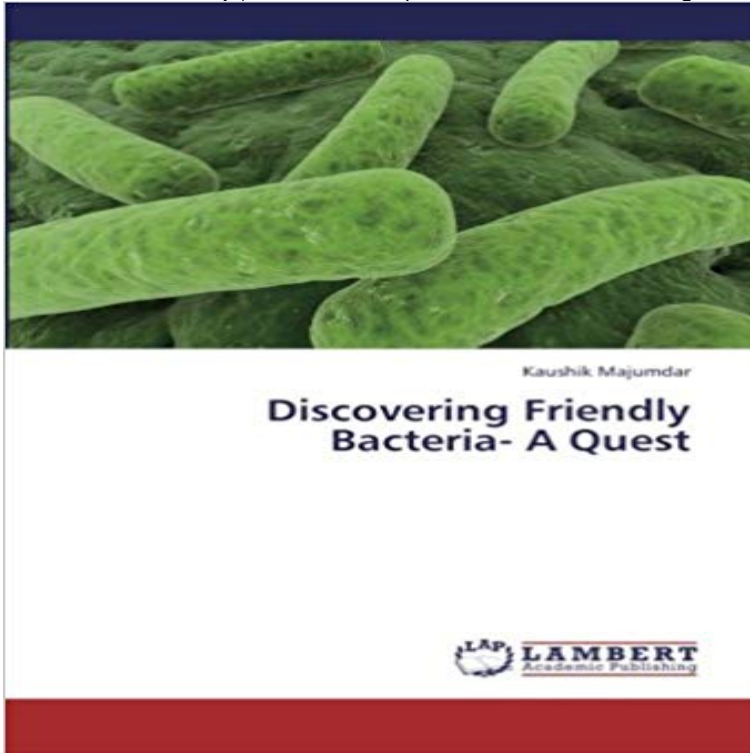


Discovering Friendly Bacteria- A Quest



The use of microorganisms as pest control agents has become an effective alternative to control plant pathogens. In the present study, twelve microbial isolates were isolated and purified from rhizosphere soil of a healthy rice plant. One of isolate KM5 showed antagonist activity in vitro against *Sclerotium rolfsii* Saccardo, *Helminthosporium oryzae*, *Gibberella fujikuroi*, *Rhizoctonia solani* Nees and *Fusarium udum*. KM5 was characterized by microscopic, Gram stain and biochemical methods belonging to genus *Bacillus*. The genus *Bacillus* was further confirmed by isolation of genomic DNA, 16S rRNA amplification using *Bacillus* specific primers. Sequencing of the PCR amplified product using 775 base pairs and further NJ phylogenetic analysis confirmed that the microorganism is a new strain of bacterium named as *Bacillus* sp. KM5. Partial sequence of 16S rRNA gene has been deposited to NCBI GenBank data base with Accession No. EU266068 and deposited to MTCC with Accession No. MTCC-5413. The cell free culture filtrate and its alginate formulation of *Bacillus* sp. KM5 inhibited the growth of all test fungi.

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