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MICROBIOLOGY

A LABORATORY MANUAL

James Cappuccino | Natalie Sherman

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this manual out for the students Hope this manual will help the students to learn the concept principles and perform the experiments in Microbiology We wish them all the best

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Laboratory Manual for Biotechnology Verma, Ashish S./ Das Surajit & Singh Anchal, Laboratory Manual in Biotechnology Students

Microbiology & Plant Pathology Dr. P.D. Sharma, 2010

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Maheshwari,Shrivardhan Dheeman,2023-03-20 This edited volume covers all aspects of microbes in consortia their roles in the ecological balance of soil by mineralize soil nutrients plant growth promotion protecting plants from disease by acting as biocontrol agents etc Step by step descriptions are provided to the development and designing strategies of microbial consortia of rhizobacteria phytohormone producing with biocontrol ACC deaminase producing with siderophore producing vice versa and many combinations of multifaceted bacteria The development of microbial consortia into successful bioinoculant and biofertilizers is also included in various chapters In addition molecular mechanisms to study the synergistic behaviors of rhizobacteria accompanied by numerous helpful schematic drawings Using phylogeny to justify the molecular similarity among two different bacteria identifies the possibility of microbial synergism fruitful to development of microbial consortium and establish them in the rhizosphere with consorted mechanisms In addition clear drawings are included in support of understanding the natural phenomenon of synergism in below ground ecosystem Essential information is provided on ecological management by consorted mechanisms of rhizobacteria that directly affect agriculture sustainability and an individual chapter is devoted to the understanding of future research and addressing bottlenecks and successful steps This book assists the academicians researchers and NGOs in negotiating the steep learning curve involved in gaining the skills needed to perform design and development of microbial consortiums preparation of PGPR based fertilizers which offers significant advantages in terms of pertaining novel knowledge on the groundbreaking research still ongoing

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