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Anirudh Kaligotla Venkata Subrahmanya, Lalitha Rishika Majeti, Viswanatha Chaitanya Kolluru, Rajesh K Srivastava -- Biofertilizers Application in Agriculture: A Viable Option to Chemical Fertilizers / Rajesh K Srivastava -- Quality Control of Biofertilizers / Swati Agarwal, Sonu Kumari, Suphiya Khan -- Biofertilizers: Characteristic Features and Applications / Tanushree Chakraborty, Nasim Akhtar -- Fabrication Approaches for Biofertilizers / Andrew N Amenaghawon, Chinedu L Anyalewechi, Heri Septya Kusuma -- Biofertilizers From Waste / Rafaela Basso Sartori, Ihana Aguiar Severo, Alisson Santos de Oliveira, Paola Lasta, Leila Queiroz Zepka, Eduardo Jacob-Lopes -- Biofertilizers Industry Profiles in Market / Kashish Gupta -- Case Study on Biofertilizer Utilization in African Continents / Osikemekha Anthony Anani, Charles Oluwaseun Adetunji -- Biofertilizers: Prospects and Challenges for Future / Tanushree Chakraborty, Nasim Akhtar -- Biofertilizers: Past, Present, and Future / Mukta Sharma, Manoj Sharma -- Algal Biofertilizer / Muhammad Mudassir Iqbal, Gulzar Muhammad, Muhammad Shahbaz Aslam, Muhammad Ajaz Hussain, Zahid Shafiq, Haseeba Razzaq.

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### Sommario/riassunto

Great attention has been paid to reduce the use of conventional chemical fertilizers harming living beings through food chain supplements from the soil environment. Therefore, it is necessary to develop alternative sustainable fertilizers to enhance soil sustainability and agriculture productivity. Biofertilizers are the substance that contains microorganisms (bacteria, algae, and fungi) living or latent cells that can enrich the soil quality with nitrogen, phosphorous, potassium, organic matter, etc. They are a cost-effective, biodegradable, and renewable source of plant nutrients/supplements to improve the soil-health properties. Biofertilizers emerge as an attractive alternative to chemical fertilizers, and as a promising cost-effective technology for eco-friendly agriculture and a sustainable environment that holds microorganisms which enhance the soil nutrients' solubility leading a raise in its fertility, stimulates crop growth and healthy food safety. This book provides in-depth knowledge about history and fundamentals to advances biofertilizers, including latest reviews, challenges, and future perspectives. It covers fabrication approaches, and various types of biofertilizers and their applications in agriculture, environment, forestry and industrial sectors. Also, organic farming, quality control, quality assurance, food safety and case-studies of biofertilizers are briefly discussed. Biofertilizers' physical properties, affecting factors, impact, and industry profiles in the market are well addressed. This book is an essential guide for farmers, agrochemists, environmental engineers, scientists, students, and faculty who would like to understand the science behind the sustainable fertilizers, soil chemistry and agroecology.

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