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Environment : Soil Science & Conservation

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Unravelling the Soil Microbiome

Perspectives For Environmental Sustainability

- **Highlights the importance of the soil microbial world in an agriculture and sustainability context**
- **Provides state-of-the-art technologies for the exploration of the structural and functional attributes of soil microbial diversity**
- **Presents microbial community analyses for applications in agriculture, and environmental biotechnology**

This book explores the significance of soil microbial diversity to understand its utility in soil functions, ecosystem services, environmental sustainability, and achieving the sustainable development goals. With a focus on agriculture and environment, the book highlights the importance of the microbial world by providing state-of-the-art technologies for examining the structural and functional attributes of soil microbial diversity for applications in healthcare, industrial biotechnology, and bioremediation studies. In seven chapters, the book will act as a primer for students, environmental biotechnologists, microbial ecologists, plant scientists, and agricultural microbiologists. Chapter 1 introduces readers to the soil microbiome, and chapter 2 discusses the below ground microbial world. Chapter 3 addresses various methods for exploring microbial diversity, chapter 4 discusses the genomics methods, chapter 5 provides the metaproteomics and metatranscriptomics approaches and chapter 6 details the bioinformatics tools for soil microbial community analysis, and chapter 7 concludes the text with future perspectives on further soil microbial uses and applications.

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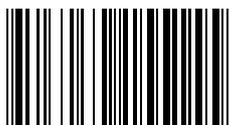
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