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Trichoderma Fungi for Forestry Use Bio- NPK ,  
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serves as a comprehensive reference on the chemistry and biochemistry of one of the most important microbial agents, Trichoderma, and its use in an increased number of industrial bioprocesses for the synthesis of many biochemicals such as pharmaceuticals and biofuels. This book provides individuals working in the field of Trichoderma, especially biochemical engineers, biochemists and biotechnologists, important information on how these valuable fungi ...

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Fungi of the genus Trichoderma are soilborne,  
green-spored ascomycetes that can be found  
all over the world.



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Biology and biotechnology of Trichoderma. Besides these major applications of Trichoderma spp., also the fields of green and white biotechnology become increasingly important for environmentally safe production of enzymes and antibiotics. These industrial applications will also benefit from studies on molecular physiology and regulatory processes, which continuously reveal novel and valuable metabolites and enzymes as well as components to be modified or adjusted for cost effective high yield production.

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Fungi of the genus *Trichoderma* are soilborne, green-spored ascomycetes that can be found all over the world. They have been studied with respect to various characteristics and applications and are...

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Abstract Fungi of the genus *Trichoderma* are soilborne, green-spored ascomycetes that can be found all over the world. They have been studied with respect to various characteristics and applications and are known as successful colonizers of their habitats, efficiently fighting their competitors.

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especially biochemical engineers, biochemists and biotechnologists, important information on how these valuable fungi can contribute to the production of a wide range of products of commercial and ecological interest. Provides a detailed and comprehensive coverage of the chemistry, biochemistry and biotechnology of Trichoderma, fungi present in soil and plants Includes most important current and potential applications of Trichoderma in bioengineering, bioprocess technology including bioenergy & biofuels, biopharmaceuticals, secondary metabolites and protein engineering Includes the most recent

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research advancements made on Trichoderma applications in plant biotechnology and ecology and environment

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and biotechnologists, important information on how these valuable fungi can contribute to the production of a wide range of products of commercial and ecological interest. Provides a detailed and comprehensive coverage of the chemistry, biochemistry and biotechnology of Trichoderma, fungi present in soil and plants Includes most important current and potential applications of Trichoderma in bioengineering, bioprocess technology including bioenergy & biofuels, biopharmaceuticals, secondary metabolites and protein engineering Includes the most recent research advancements made on Trichoderma

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applications in plant biotechnology and  
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improvement and related researches in  
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resistance and biocontrol technology. This  
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the area of Trichoderma research and its related importance in the Biochemical-Industry-Agri-Food sector. Includes recent developments on Trichoderma research in plant biotechnology, agriculture and in the environment Provides a detailed and comprehensive coverage of the biodiversity and biochemistry of Trichoderma Covers potential applications of Trichoderma in biotechnology, including secondary metabolites and protein engineering

Trichoderma spp. are biotechnologically significant fungi, being widely used both in



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agriculture and industry. These microbes are also a potential drug source of clinical importance. In recent years, driven by advances in genetics and genomics, research on these fungi have opened new avenues for its varied applications. Divided into three sections, covering taxonomy and physiology, interactions with plants and applications and significance, this book also discusses topics that have seen rapid developments in the recent years. Various aspects of Trichoderma like molecular taxonomy, sexual and asexual developments, secondary metabolism, beneficial interactions with plants,

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applications as cell factories and harmful interactions with humans are discussed. This book, thus, hopes to be an essential ready reference for researchers, students and people from industry as well.

Fungi belonging to the genera *Trichoderma* and *Gliocladium* are soil-borne saprophytes which have been used for industrial and agricultural applications for decades. Some strains produce enzymes and antibiotics while others are useful as biological agents for

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the protection of plants against pathogens. This second volume of two describes the commercial uses of Trichoderma and Gliocladium, beginning with an in depth discussion of the degradation of polysaccharides and macromolecules by fungal enzymes. The application of the fungi in biocontrol for agricultural purposes is then examined. The final section of this volume deals with protein production and the utilisation of Trichoderma enzymes by various industries.

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This latest volume addresses the contemporary issues related to recombination in filamentous fungi, EST data mining, fungal intervening sequences, gene silencing, DNA damage response in filamentous fungi, cfp genes of Neurospora, developmental gene sequences, site-specific recombination, heterologous gene expression, hybridization and microarray technology to enumerate biomass. This volume also analyse the current knowledge in the area of hydrophobins and genetic regulation of carotenoid biosynthesis. Over fifty world renowned

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scientist from both industry and academics provided in-depth information in the field of fungal genes and genomics.

Beneficial Microbes in Agro-Ecology: Bacteria and Fungi is a complete resource on the agriculturally important beneficial microflora used in agricultural production technologies. Included are 30 different bacterial genera relevant in the sustainability, mechanisms, and beneficial natural processes that enhance soil fertility and plant growth. The second part of the book discusses 23 fungal genera used in

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agriculture for the management of plant diseases and plant growth promotion. Covering a wide range of bacteria and fungi on biocontrol and plant growth promoting properties, the book will help researchers, academics and advanced students in agro-ecology, plant microbiology, pathology, entomology, and nematology. Presents a comprehensive collection of agriculturally important bacteria and fungi Provides foundational knowledge of each core organism utilized in agro-ecology Identifies the genera of agriculturally important microorganisms

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This book gives a comprehensive overview on the various aspects of Trichoderma, a filamentous fungus ubiquitously present in soil. Topics addressed are the biology, diversity, taxonomy, ecology, biotechnology and cultivation of Trichoderma, to just name a few. Basic as well as applied aspects are covered and a special focus is given on use of Trichoderma in agriculture and beyond. Trichoderma species are widely distributed throughout the world in soil, rotting plant material, and wood. Although they are often considered as a contaminants, Trichoderma

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species are also known for their ability to act as biocontrol agents against various plant pathogens and plant diseases, and also as biostimulants promoting plant growth. The contents of this book will be of particular interest to, agricultural scientists, biotechnologists, plant pathologists, mycologists, and microbiologists, students, extension workers, policy makers and other stakeholders.

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