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ideas in Environmental Microbiology in a narrative and lucid style. The relationship between microbes and the environment are demonstrated in a clear and simplified manner. The modern techniques and designs employed in microbiological applications are discussed in a comprehensive manner which will update

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the readers of the commercial aspects of microbiology.

Food Microbiology is the study of action of microbes on food. The book discusses in a narrative style, the interaction between microbes, food and the environment besides tracing the beneficial and harmful effects of

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microbial growth in food. The contents of the book have been sequentially divided into 5 units giving a detailed account of the various aspects of food as an ecosystem, preservation techniques? both traditional and advanced, importance of microbial degradation and fermentation of food along with the prevalent food-borne diseases. The

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laboratory diagnosis of the food-borne pathogens and their isolation, identification and characterization would be useful for students, researchers and teachers.

Bioremediation refers to the clean up of pollution in soil, groundwater, surface water, and air using typically microbiological

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processes. It uses naturally occurring bacteria and fungi or plants to degrade, transform or detoxify hazardous substances to human health or the environment. For bioremediation to be effective, microorganisms must enzymatically attack the pollutants and convert them to harmless products. As bioremediation can be effective

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only where environmental conditions permit microbial growth and action, its application often involves the management of ecological factors to allow microbial growth and degradation to continue at a faster rate. Like other technologies, bioremediation has its limitations. Some contaminants, such as chlorinated organic

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or high aromatic hydrocarbons, are resistant to microbial attack. They are degraded either gradually or not at all, hence, it is not easy to envisage the rates of clean-up for bioremediation implementation.

Bioremediation represents a field of great expansion due to the important development of new technologies. Among

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them, several decades on metagenomics expansion has led to the detection of autochthonous microbiota that plays a key role during transformation. Transcriptomic guides us to know the expression of key genes and proteomics allow the characterization of proteins that conduct specific reactions. In this book we show

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specific technologies applied in bioremediation of main interest for research in the field, with special attention on fungi, which have been poorly studied microorganisms. Finally, new approaches in the field, such as CRISPR-CAS9, are also discussed. Lastly, it introduces management strategies, such as bioremediation

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application for managing affected environment and bioremediation approaches. Examples of successful bioremediation applications are illustrated in radionuclide entrapment and retardation, soil stabilization and remediation of polycyclic aromatic hydrocarbons, phenols, plastics or fluorinated compounds. Other

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emerging bioremediation methods include electro bioremediation, microbe-availed phytoremediation, genetic recombinant technologies in enhancing plants in accumulation of inorganic metals, and metalloids as well as degradation of organic pollutants, protein-metabolic engineering to increase bioremediation efficiency,

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including nanotechnology applications are also discussed.

Xenobiotic compounds including pesticides, nitrophenols, pyridine, polycyclic aromatic compounds and polychlorinated biphenyls are widely spread in environment due to anthropogenic

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activities. Most of them are highly toxic to living beings due to their mutagenic and carcinogenic properties. Therefore, the removal of these compounds from environment is an essential step for environmental sustainability. Microbial remediation has emerged as an effective technology for degradation of these

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Xenobiotic compounds as microorganisms have unique ability to utilize these compounds as their sole source of carbon and energy. The primary goal of this book is to provide detailed information of microbial degradation of many xenobiotic compounds in various microorganisms.

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The book, Environmental and Agricultural Microbiology: Applications for Sustainability is divided in to two parts which embodies chapters on sustenance and life cycles of these microorganisms in various environmental conditions, their dispersal, interactions with other inhabited communities, metabolite production and

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reclamation. Though books pertaining to soil & agricultural microbiology/environmental biotechnology are available, there is a dearth of comprehensive literature on behavior of microorganisms in environmental and agricultural realm. Part 1 includes bioremediation of agrochemicals by

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microalgae, detoxification of chromium and other heavy metals by microbial biofilm, microbial biopolymer technology including polyhydroxyalkanoates (PHAs) and polyhydroxybutyrates (PHB), their production, degradability behaviors and applications. Biosurfactants production and their commercial importance are also

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systematically represented in this part. Part 2 having 9 chapters and facilitates imperative ideas on approaches for sustainable agriculture through functional soil microbes, next generation crop improvement strategies via rhizosphere microbiome, production and implementations of liquid biofertilizers, mitigation of methane from livestock,

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chitinases from microbes, extremozymes, an enzyme from extremophilic microorganism and their relevance in current biotechnology, lithobiontic communities and their environmental importance have been comprehensively elaborated. In the era of sustainable energy production biofuel and other bioenergy products play a key role and

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their production from microbial sources are frontiers for researchers. The last chapter unveils the importance of microbes and their consortia for management of solid waste in amalgamation with biotechnology.

The book discusses the complex interactions between plants and their associated

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microbial communities. It also elucidates the ways in which these microbiomes are connected with the plant system, and how they affect plant health. The different chapters describe how microbiomes affect plants with regard to immunity, disease conditions, stress management and productivity. In addition, the book describes

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how an ‘ additional plant genome ’ functions as a whole organ system of the host, and how it presents both challenges and opportunities for the plant system. Moreover, the book includes a dedicated section on using omics tools to understand these interactions, and on exploiting them to their full potential.

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This book reviews the use of fermentation to develop healthy and functional foods and beverages, and the commercialization of some of the fermented food products through the use of biotechnology. The first two sections cover the health and functional benefits of fermented foods and the latter

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two sections includes chapters on global and region-specific fermented foods that have crossed the geographical barriers to reach the supermarkets all over the world.

This edited book, is a collection of 25

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chapters describing the recent advancements in the application of microbial technology in the food and pharmacology sector. The main focus of this book is application of microbes, food preservation techniques utilizing microbes, probiotics, seaweeds, algae, enzymatic abatement of urethane in fermentation of beverages, bioethanol

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production, pesticides, probiotic biosurfactants, drought tolerance, synthesis of application of oncolytic viruses in cancer treatment, microbe based metallic nanoparticles, agro chemicals, endophytes, metabolites, antibiotics etc. This book highlighted the significant aspects of the vast subject area of microbial biotechnology and

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their potential applications in food and pharmacology with various topics from eminent experts around the World. This book would serve as an excellent reference book for researchers and students in the Food Science, Food Biotechnology, Microbiology and Pharmaceutical fields.

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Frontier technology in water treatment and pollutant removal is needed not only for maximizing water reuse but also for the rapid detection of contaminants in the recycled water. The UN announced the years 2018 to 2028 as the ‘ International Decade for Action – Water for Sustainable Development ’ . To realize this mission,

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innovative and frontier technologies for water treatment and pollutant removal are important components. This book aims to serve as a platform for updating the scientific community with recent progress in this area, covering frontier technologies in analytical technique, physicochemical treatment, chemical treatment, and biological

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treatment. In Focus – a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector.

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