

Microbial Ecology Atlas Bartha 4th Edition

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Russell Boulding Cram101 Textbook Reviews D.F. Boesch Eve Riser-Roberts M.W. Loutit John Olav Haanstad Dimaris Acosta-Mercado Geoffrey A. Codd John Douglas Hamilton Kristen Marie DeAngelis Lev R. Ginzburg Brendan James Marc Bohannan Joel Albert Klappenbach William V. Sobczak

advances in microbial ecology was established by the international committee on microbial ecology icome to provide a vehicle for in depth critical and even provocative reviews to emphasize recent trends in the important field of microbial ecology advances in microbial ecology is now recognized as a major source of information and inspiration both for practicing and for prospective microbial ecologists most reviews appearing in advances have been prepared by leaders in particular areas following invitations issued by the editorial board individuals are encouraged however to submit outlines of unsolicited contributions to any member of the editorial board for consideration for publication in advances with the publication of volume 12 of advances in microbial ecology there will be a change of editor and the entire editorial board the current editor wishes to take this opportunity to thank the present editorial board ron atlas bo barker j rgensen and gwyn jones as well as past members of the board for their assistance and encouragement over the years the new editor of advances in microbial ecology will be gwyn jones with bernhard schink warwick f vincent and david m ward as members of the editorial board the outgoing board wish the new board every success in continuing the traditions established by martin alexander the founding editor of advances in microbial ecology the topics featured in volume 12 of advances include some related to the metabolic activities of bacteria namely bioremediation of oil spills by r m atlas and r

a synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface practical handbook of soil vadose zone and ground water contamination assessment prev

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this book combines the results of current research with essential background

material to provide complete in depth coverage of every aspect of in situ and ex situ bioremediation as well as an extensive overview of the physical and chemical processes currently available for treating petroleum contaminated soils critical information has been collected and assembled under one cover to provide a convenient reference for anyone who must contend with this worldwide problem remediation of petroleum contaminated soils biological physical and chemical processes describes how to optimize the biodegradation of petroleum hydrocarbons in soil water systems it reports on the susceptibility of various petroleum components to biodegradation by microorganisms and considers all groups of microorganisms for their potential contributions the book also deals with problem areas such as the transport of organisms oxygen or nutrients throughout the subsurface as well as biodegradation of polynuclear aromatic hydrocarbons pahs and nonaqueous phase liquids napls in addition the book presents a variety of methods for monitoring bioremediation this reference discusses current soil remediation processes and includes many innovative approaches it also investigates means of controlling volatile organic compounds vocs and leachate and addresses methods for collecting and treating these secondary waste streams the expansive coverage of this book will furnish readers with a wide range of options for developing treatment strategies and for customizing procedures for specific requirements

the suggestion for a symposium on microbial ecology was first put forward by professor j a r miles in 1972 after gaining support from the new zealand microbiological society and the royal society of new zealand a national committee with international represen tatives and a local committee were formed sponsorship was obtained from unep unesco icro and ioms iubs and icome and the culmina tion was the first international microbial ecology symposium in 1977 attended by over 400 scientists from 30 countries certain facets of microbial ecology have been studied for over a century but the recognition of microbial ecology as a discipline has come relatively recently the national committee decided that all aspects of microbial ecology should be discussed at the sym posium the local organising committee therefore invited papers on the ecology of microorganisms and viruses associated with plants and animals as well as microorganisms associated with soil and water and with general environmental problems of the 240 papers presented only a selection is published here it is hoped that they will be of interest particularly to those who could not attend the vol ume stands as a tribute to the fore sight of john miles in instigating the symposium and who retires this year from the microbiology department of the university of otago where he has had a distinguished career may his interest in microbial ecology long continue

two experiments tested the effect of slurries derived from species rich canella soils on ciliate communities in the species poor tectona soils and vice versa reciprocal soil slurries had no detectable effect on overall ciliate species richness and abundance however bacterial slurries containing autochthonous bacteria did have a significant effect on the species richness of the soil endemic colpodean ciliates thus bacterial diversity or abundance may have a strong influence on the diversity and possibly abundance of rhizosphere ciliates

microbial ecology an overview energy sources for microbial growth an overview changes in oxygen tension and the microbial metabolism of organic carbon the utilisation of light by microorganisms aspects of carbon dioxide assimilation by autotrophic prokaryotes the ecology and adaptive strategies of benthic cyanobacteria studies on the regulation and genetics of enzymes of alcaligenes eutrophus ecology of the colourless sulphur bacteria genetics metabolic versatility and differentiation in photosynthetic prokaryotes

explores the ecological toxicity testing of polymers the performance of degradable polymers and credible regulatory control and environmental programs to reduce unreasonable effects of polymers on aquatic and terrestrial organisms the specific topics include biodegradation testing in soil and in compost polycarboxylates and polyacrylate superabsorbents water treatment and dispersion polymers and life cycle assessment regulations in the us canada the pacific region japan and europe are also reviewed annotation copyrighted by book news inc portland or

analyses of ecological risk assessment for biotechnology as viewed predominantly by scientists doing research in this area the emphasis is on ecological risks associated with the release of genetically engineered organisms in the environment

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