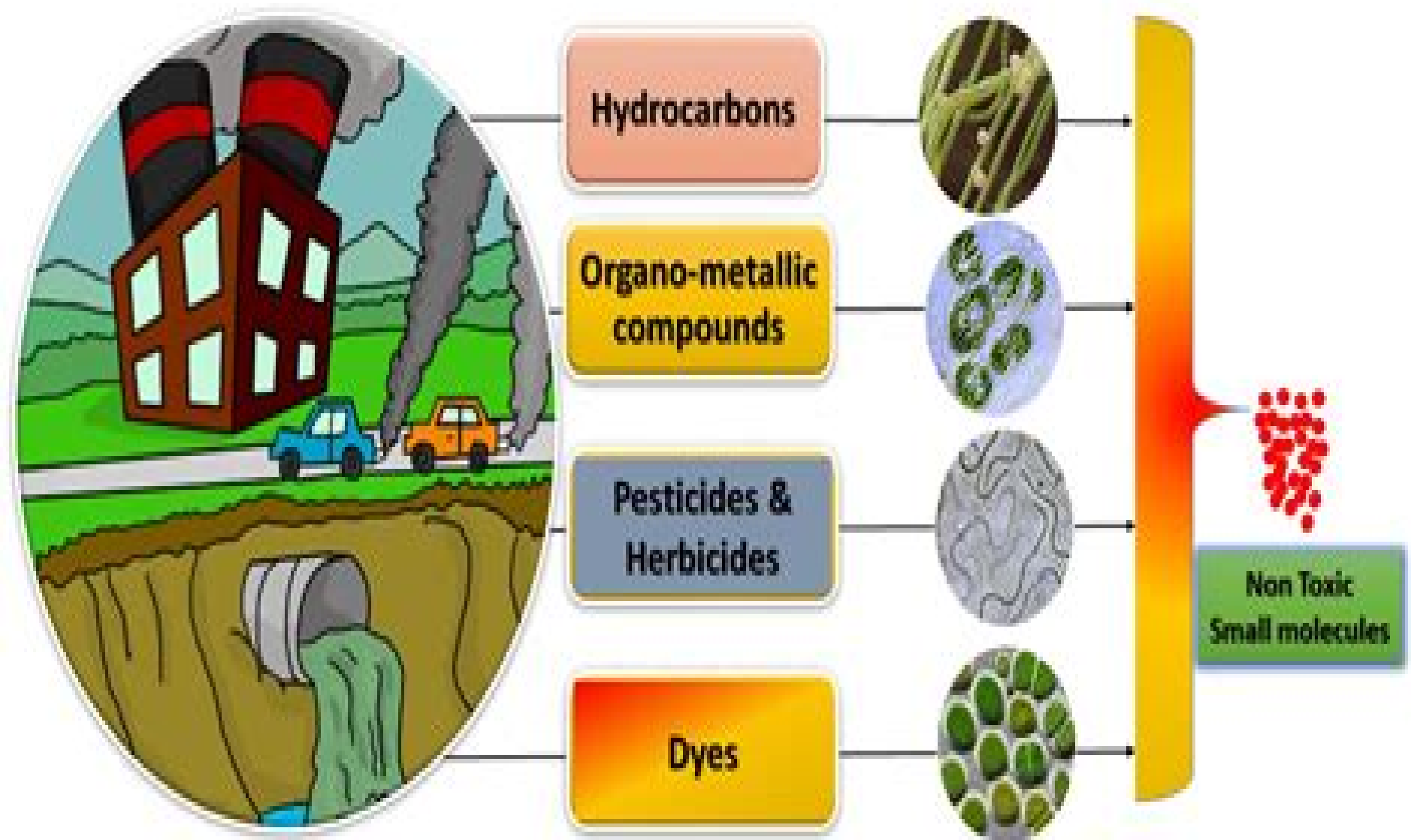


Microalgae and cyanobacteria-based biodegradation of organic pollutants



Biodegradation And Detoxification Of Environmental Pollutants

D Kirk



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Biodegradation and Detoxification of Environmental Pollutants A.M Chakrabarty,2018-01-18 The basic objective of the book is to define and review the recent advances in our understand on the biological mechanisms in the biodegradation and detoxification of various environmental pollutants The book encompasses recent studies on the mode of detoxication of such mercurial compounds by various microorganisms

Biodegradation and Detoxification of Environmental Pollutants Ananda M. Chakrabarty,2018 The basic objective of the book is to define and review the recent advances in our understand on the biological mechanisms in the biodegradation and detoxification of various environmental pollutants The book encompasses recent studies on the mode of detoxication of such mercurial compounds by various microorganisms Provided by publisher

Biodegradation and Detoxification of Micropollutants in Industrial Wastewater Izharul Haq,Ajay S. Kalamdhad,Maulin P. Shah,2022-04-26 Biodegradation and Detoxification of Micropollutants in Industrial Wastewater summarizes the occurrence and source of micropollutants through various industrial wastewaters It covers the type of micropollutants their effects and emerging detection and treatment methods The book has 11 chapters and throughout each chapter it presents the fate and effects of micropollutants quantitative and qualitative analysis of micropollutants in industrial wastewaters and treatment of micropollutants through conventional and advanced wastewater treatment technologies Presents detailed information on the micropollutants of industrial wastewaters and their origins Assesses the toxic effect these micropollutants have on living organisms Evaluates emerging treatment technologies for the removal of micropollutants Includes molecular biology nanotechnology and microbiology approaches for the management of micropollutants in industrial wastewaters

Bioremediation for Environmental Sustainability Gaurav Saxena,Vineet Kumar,Maulin P. Shah,2020-10-13 Bioremediation for Environmental Sustainability Toxicity Mechanisms of Contaminants Degradation Detoxification and Challenges introduces pollution and toxicity profiles of various organic and inorganic contaminants including mechanisms of toxicity degradation and detoxification by microbes and plants and their bioremediation approaches for environmental sustainability The book also covers many advanced technologies in the field of bioremediation and phytoremediation including electro bioremediation microbial fuel cells nano bioremediation constructed wetlands phytotechnologies and many more which are lacking in other competitive titles existing in the market The book includes updated information as well as future directions for research in the field of bioremediation of industrial wastes This book is a reference for students researchers scientists and professionals in the fields of microbiology biotechnology environmental sciences eco toxicology environmental remediation and waste management especially those who aspire to work on the biodegradation and bioremediation of industrial wastes and environmental pollutants for environmental sustainability Environmental safety and sustainability with rapid industrialization is one of the major challenges worldwide Industries are the key drivers in the world economy but these are also the major polluters due to discharge of potentially

toxic and hazardous wastes containing various organic and inorganic pollutants which cause environmental pollution and severe toxic effects in living beings Introduces pollution and toxicity profiles of environmental contaminants and industrial wastes including oil refinery wastewater distillery wastewater tannery wastewater textile wastewater mine tailing wastes plastic wastes and more Describes underlying mechanisms of degradation and detoxification of emerging organic and inorganic contaminants with enzymatic roles Focuses on recent advances and challenges in bioremediation and phytoremediation including microbial enzymes biosurfactants microalgae biofilm archaea genetically engineered organisms and more Describes how microbes and plants can be successfully applied for the remediation of potentially toxic industrial wastes and chemical pollutants to protect the environment and public health Bioremediation for Environmental Pollutants Inamuddin,2023-06-23 Increased industrial and agricultural activity has led to the contamination of the earth's soil and groundwater resources with hazardous chemicals The presence of heavy metals dyes fluorides dissolved solids and many other pollutants used in industry and agriculture are responsible for hazardous levels of water pollution The removal of these pollutants in water resources is challenging Bioremediation is a new technique that employs living organisms usually bacteria and fungi to remove pollutants from soil and water preferably in situ This approach is more cost effective than traditional techniques such as incineration of soils and carbon filtration of water It requires understanding how organisms consume and transform polluting chemicals survive in polluted environments and how they should be employed in the field Bioremediation for Environmental Pollutants discusses the latest research in green chemistry and practices and principles involved in quality improvement of water by remediation It covers different aspects of environmental problems and their remedies with up to date developments in the field of bioremediation of industrial environmental pollutants Volume 2 explains the methods used to control the remediation processes making it cost effectively and feasible It elaborates on the application of microbial enzymes microalgae and genetically engineered microorganisms in the bioremediation of significant pollutants food wastes distillery wastewater and pharmaceutical wastes This book is invaluable for researchers and scientists in environmental science environmental microbiology and waste management It also serves as a learning resource for graduate and undergraduate students in environmental science microbiology limnology freshwater ecology and microbial biotechnology Selected Water Resources Abstracts ,1988 **Phytoremediation of Environmental Pollutants** Ram Chandra,N.K. Dubey,Vineet Kumar,2017-12-14 Phytoremediation aids to augment bioremediation as it uses broad range plants to remediate soil sediment surface water and ground water that have been contaminated with toxic metals organic pesticides and radionuclides This book serves to disseminate detailed up to date knowledge regarding the various aspects of phytoremediation and plant microbe interaction The book highlights process and molecular mechanisms for industrial waste detoxification during phytoremediation in wetland plants role of endophytic bacteria for phytoremediation of environmental pollutants constructed wetland treatment system for treatment and recycling of hazardous wastewater amongst other

relevant topics Key Features Focuses on phytoremediation process for different pollutants mainly heavy metal detoxification in the presence of other co pollutants Includes plant soil microbe interactions in phytoremediations and remediation of contaminated water Explores life cycle assessment of industrial waste contaminated site with organic pollutants Discusses hyperaccumulator versus non hyperaccumulator plants for environmental waste management Includes bacterial assisted phytoremediation and siderophore formation in specific environmental conditions

Bioremediation of Industrial Waste for Environmental Safety Ram Naresh Bharagava, Gaurav Saxena, 2019-05-07 Achieving environmental sustainability with rapid industrialization is currently a major global challenge Industries are the key economic drivers but are also the main polluters as untreated partially treated effluents from industry are usually discharged into the aquatic environment or dumped Industrial effluents often contain highly toxic and hazardous pollutants which cause ecological damage and present and health hazards to living beings As such there is a pressing need to find ecofriendly solutions to deal with industrial waste and to develop sustainable methods for treating detoxifying waste before it is released into the environment As a low cost and eco friendly clean technology bioremediation can offer a sustainable alternative to conventional remediation technologies for the treatment and management of industrial wastes This book Volume II describes the role of biological agents in the degradation and detoxification of organic and inorganic pollutants in industrial wastes and presents recent bioremediation approaches for waste treatment and management such as constructed wetlands electro bioremediation and nano bioremediation as well as microbial fuel cells It appeals to students researchers scientists industry professionals and experts in the field of microbiology biotechnology environmental sciences eco toxicology environmental remediation and waste management and other relevant areas who are interested in biodegradation and bioremediation of industrial wastes for environmental safety

Advances in Biodegradation and Bioremediation of Industrial Waste Ram Chandra, 2015-03-24 Addresses a Global Challenge to Sustainable Development Advances in Biodegradation and Bioremediation of Industrial Waste examines and compiles the latest information on the industrial waste biodegradation process and provides a comprehensive review Dedicated to reducing pollutants generated by agriculturally contaminated soil and plastic waste from

Environmental Exposure from Chemicals: Introduction to environmental exposure from chemicals Wesley Brock Neely, Gary E. Blau, 1985

Advanced Microbial Technology for Sustainable Agriculture and Environment Saurabh Gangola, Saurabh Kumar, Samiksha Joshi, Pankaj Bhatt, 2023-05-18 Advanced Microbial Technology for Sustainable Agriculture and Environment focuses on plant microbe interactions in respect to bioremediation and plant growth promotion providing insights on diverse approaches such as genomics metagenomics proteomics bioinformatics and other high throughput analyses of environmentally relevant microorganisms The impact of frequent applications of potentially toxic chemicals pesticides and fertilizers and increased industrialization processes on microbial diversity emphasizes the potential threat to microbial biodiversity in ecosystems This is an ideal resource on current trends and the

future of PGPR developments with bioremediation potential Moreover it gives a deep understanding of the genetics of microbial biodegradation and different remediation mechanisms that help to re establish the natural environment Helps readers find sustainable ways for environmental clean up and increased agricultural productivity Gives a systematic overview of the role of PGPR in bioremediation selection and preparation of potential PGPR microbial inoculum for bioremediation biodegradation and plant growth promotion Illustrates the importance of PGPR in the bioremediation of potentially hazardous and relatively novel compounds with the maintenance of sustainable agricultural productivity Addresses emerging novel approaches of PGPR based biodegradation of toxic compounds and highlights key developments and challenges associated with the processes

Biotechnology and Biodegradation Daphne Kameley, Ananda M. Chakrabarty, Gilbert S. Omenn, 1990 Biodegradation and Bioremediation Blaise Lindsey, 2018-10-11 Biodegradation is the break down of organic matter by microbes Bioremediation is an engineered technique applied by people to clean up organic matter by helping microbes with the biodegradation process One way of doing that is to introduce oxygen into the subsurface to help more aerobic microbes grow in order to clean up oil in the soil The potential toxicity harmful action inherent in a substance is manifest only when that substance comes in contact with that susceptible living biological system A chemical normally thought of as e harmlesse will evoke a toxic response if added to a biological system in sufficient amount The toxic potency of a chemicals is defined by the relationship between dose the amount of the chemical and the response that is produced in a biological system The toxicity of industrial wastes is not often managed and it has caused serious damage to earth and water The most important aspect of environmental biotechnology is the effective management of hazardous and toxic pollutants xenobiotics by bioremediation The environmental clean up process through bioremediation can be achieved in two ways in situ and ex situ bioremediation The book aims to provide relevant theoretical and practical frameworks and the latest empirical research findings in this area along with case studies It is written for students academicians and industry professionals who want to improve their understanding of the strategic role of biodegradation and bioremediation at different levels of the biodegradation and bioremediation research and knowledge that is heavy metal pollution toxicity remediation methods and strategies to manage the waste in industries which are a global concern

Microbial Degradation and Detoxification of Pollutants Maulin P. Shah, 2023-05-08 This book explores how bioremediation biotechnology is used to remove pollutants in wastewater Remediation of wastewater is important to ensure that pollutants generated in industry do not effect our environment negatively Traditional wastewater remediation is not a sustainable process however by using biological means the sustainability can be improved Both conventional methods and bioremediation technologies are discussed Applications for heavy metal nitrate and petroleum bioremediation nanotechnology in bioremediation and more are explored

Biotechnology for Degradation of Toxic Chemicals in Hazardous Wastes Richard J. Scholze, 1988 *Microbial Transformation and Degradation of Toxic Organic Chemicals* Lily Y. Young, Carl E. Cerniglia, 1995-08-18 Microorganisms offer

a more effective and economical means of reducing or eliminating environmental contamination than more traditional treatment methods This study examines the role of microbes in the degradation of toxic organic chemicals

Agrochemicals in Plant Disease Management N.G. Ravichandra,2018-08-01 The book is fabricated exclusively for M Sc Agri and Ph D degree programmes in Plant Pathology for all the universities of Agriculture Horticulture Forestry Sericulture and the related streams of Botany Chemicals in Plant Disease Management is a compulsory subject in several degree programmes The present book solely caters to the students of Plant Pathology as it covers a wide range of topics related to chemicals used to control plant diseases viz Agrochemicals used in plant disease management Current scenario History and development of agrochemicals Formulations application and phytotoxicity of agrochemicals Classification and modes of action of agrochemicals Registration and regulation of agrochemicals Safe handling and use of agrochemicals Compatibility and persistence of agrochemicals Pollution and hazards by agrochemicals and New generation fungicides Special Features There has been a gap of 30 years since the publication of a book on the subject addressed here therefore this book makes a novel appearance on Agrochemicals in recent times Presently there is no book available in the market covering the whole syllabus prescribed by the ICAR on Agrochemicals To meet this requirement the book is designed to cover the entire syllabus prescribed by the ICAR for the courses in P G programmes on Plant Pathology Recent developments in chemicals used in Plant Disease Management have been added updated and presented in a detailed manner Serviceable Tables Illustration Figures and Data are provided for an effective understanding of both the students and the faculty Appendices on Read the Label and Preparation of spray volume are provided Detailed Glossary of key words used has been given for important and frequently occurring topics Exhaustive Bibliography for further reading is also provisioned Since the book is first of its kind it is highly recommended for the students faculty policy makers private and government pesticide industries NGO s State Government Departments of Agriculture Horticulture Forestry and Sericulture Apart from the students appearing for U G P G Entrance Examinations in various Universities several competitive examinations such as ARS NET SRF JRF IAS KAS progressive farmers and planters and Seed companies are also expected to be benefited by the book

Bioremediation Katherine H. Baker,Diane S. Herson,1994 Bioremediation one of the hottest technologies of the decade is the use of microorganisms in reducing controlling and rectifying the effects of chemical pollutants Written by two leaders at the Environmental Microbiology Association this book offers an overview of the major classes of pollutants and the bioremediation of various environments Also relates this scientific information to real problems using case studies Includes illustrations and an index *Critical Reviews in Biotechnology* ,1986 **Proceedings ... APCA Annual Meeting** Air Pollution Control Association. Annual Meeting,1988

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