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Bioremediation *Methods and Protocols*

Edited by
Stephen P. Cummings

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Peipei Pang



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Bioremediation Stephen P. Cummings, 2010 This book explores imaginative and ambitious multidisciplinary techniques to remove pollutants from a variety of environments It addresses broader issues surrounding bioremediation and includes detailed protocols of various effective techniques

Tools, Techniques and Protocols for Monitoring Environmental Contaminants Satinder Kaur Brar, Krishnamoorthy Hegde, Vinayak Laxman Pachapur, 2019-06-04 Tools Techniques and Protocols for Monitoring Environmental Contaminants describes information on the strategic integration of available monitoring methods with molecular techniques with a focus on omics DNA RNA and protein based and molecular imprinted polymer and nanomaterial based advanced biosensors for environmental applications It discusses the most commonly practiced analytic techniques such as HPLC MS GCMS and traditional biosensors giving an overview of the benefits of advanced biosensors over commonly practiced methods in the rapid and reliable assessment of environmental contaminants As environmental contaminants have become one of the serious concerns in terms of their rapid growth and monitoring in the environment which is often limited due to costly and laborious methods this book provides a comprehensive update on their removal the challenges they create for environmental regulatory agencies and their diverse effects on terrestrial and aquatic environments Provides methods for assessing and monitoring environmental contaminants Includes recent advancement in molecular techniques Outlines rapid environmental monitoring methods Explains the use of biosensors for environmental monitoring Reviews monitoring methods beyond conventional analytic techniques

Applied Molecular Biotechnology Muhammad Sarwar Khan, Iqar Ahmad Khan, Debmalya Barh, 2016-04-21 Applied Molecular Biotechnology The Next Generation of Genetic Engineering explains state of the art advances in the rapidly developing area of molecular biotechnology the technology of the new millennium Comprised of chapters authored by leading experts in their respective fields this authoritative reference text Highlights the latest omics ba

Fungal Bioremediation Araceli Tomasini Campocoso, Hector Hugo Leon Santiesteban, 2019-03-04 This book highlights the role fungi play in bioremediation as well as the mechanisms and enzymes involved in this process It covers the application of bioremediation with fungi in polluted sites and gives a wide overview of the main applications of remediation such as degradation of xenobiotics gaseous pollutants and metal reduction The book explains the degradation of emergent pollutants and radioactive compounds by fungi which is relevant to the current pollution problems that have been studied over the last few decades The book also describes the most advanced techniques and tools that are currently used in this field of study

Microorganisms in Environmental Management Tulasi Satyanarayana, Bhavdish Narain Johri, Anil Prakash, 2012-01-03 Microbes and their biosynthetic capabilities have been invaluable in finding solutions for several intractable problems mankind has encountered in maintaining the quality of the environment They have for example been used to positive effect in human and animal health genetic engineering environmental protection and municipal and industrial waste treatment Microorganisms have enabled

feasible and cost effective responses which would have been impossible via straightforward chemical or physical engineering methods Microbial technologies have of late been applied to a range of environmental problems with considerable success This survey of recent scientific progress in usefully applying microbes to both environmental management and biotechnology is informed by acknowledgement of the polluting effects on the world around us of soil erosion the unwanted migration of sediments chemical fertilizers and pesticides and the improper treatment of human and animal wastes These harmful phenomena have resulted in serious environmental and social problems around the world problems which require us to look for solutions elsewhere than in established physical and chemical technologies Often the answer lies in hybrid applications in which microbial methods are combined with physical and chemical ones When we remember that these highly effective microorganisms cultured for a variety of applications are but a tiny fraction of those to be found in the world around us we realize the vastness of the untapped and beneficial potential of microorganisms At present comprehending the diversity of hitherto uncultured microbes involves the application of metagenomics with several novel microbial species having been discovered using culture independent approaches Edited by recognized leaders in the field this penetrating assessment of our progress to date in deploying microorganisms to the advantage of environmental management and biotechnology will be widely welcomed

Fixed-film Reactors In Wastewater Treatment Nicholas F Gray, 2020-08-17 Our rivers and lakes are continuously self purifying thanks to algal and bacterial biofilms that grow over the surface of stones and other debris This same process has been employed for over a century to treat our municipal and industrial wastewater in specially designed fixed film reactors that maximize this microbial activity by providing ideal growth conditions and unlimited food and oxygen Fixed film or attached biofilm reactors are unique in their ability to treat complex wastewaters and shock loadings using far less energy than other wastewater treatment processes such as activated sludge making them a sustainable treatment option Targeted at undergraduate and postgraduate engineers and scientists this book follows the structure of bestseller *Biology of Wastewater Treatment* This volume gives an expanded and up to date overview of the use of fixed film reactors in wastewater treatment with content spanning from biofilm formation to traditional trickling filters and rotating biological contactor technology advanced submerged systems including MBBRs and IFAS and their key role in the treatment of contaminated air and finally to nitrogen removal employing new microbial pathways such as Anammox This monograph emphasizes the biological aspects of the processes

Plant Adaptation and Phytoremediation M. Ashraf, M. Ozturk, M. S. A. Ahmad, 2010-08-17 The problems engendered by the conflicting imperatives of development and ecology show no sign of ending and every day more locations are added to the list of landscapes poisoned by human activity This vital book featuring an international set of authors is a key reference for researchers and environmental managers as well as anyone involved in the mining industry or landscape remediation The comprehensive coverage of current approaches to phytoremediation begins by examining the problem It looks at natural and human induced toxins and their effects on natural vegetation as well

as agricultural crops Particular attention is paid to the two largest challenges to remediation heavy metals and the salt stress that is impeding agricultural productivity worldwide The text moves on to focus on the efficacy of different plant species in removing toxic pollutants from the environment Along with analysis of a number of case studies this section includes new and updated information on the mechanism of toxin tolerance in plants

Experimental Methods in Wastewater Treatment

Mark C. M. van Loosdrecht, Per Halkjaer Nielsen, C. M. Lopez-Vazquez, Damir Brdjanovic, 2016-05-15 Over the past twenty years the knowledge and understanding of wastewater treatment has advanced extensively and moved away from empirically based approaches to a fundamentally based first principles approach embracing chemistry microbiology and physical and bioprocess engineering often involving experimental laboratory work and techniques Many of these experimental methods and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice For sector professionals especially a new generation of young scientists and engineers entering the wastewater treatment profession the quantity complexity and diversity of these new developments can be overwhelming particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available In addition information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines This book seeks to address these deficiencies It assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world Experimental Methods in Wastewater Treatment forms part of the internet based curriculum in wastewater treatment at UNESCO IHE and as such may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do The book is written for undergraduate and postgraduate students researchers laboratory staff plant operators consultants and other sector professionals

Bioremediation

J.J. Valdes, 2012-12-06 In the field of biosensors the previous focus has been almost entirely on medical diagnostics Here it is discussed in relation to bioremediation The application of new biosensing techniques to environmental monitoring promises to be a more economical approach to monitoring both soil consortia and levels of pollutants Significantly functional biosensors can determine such parameters as How clean is clean This new edition is targeted specifically at graduate students and environmental professionals

Agricultural and Environmental Applications of Biochar

Mingxin Guo, Zhongqi He, Sophie M. Uchimiya, 2020-01-22 Agricultural and Environmental Applications of Biochar Advances and Barriers Over the past decade biochar has been intensively studied by agricultural and environmental scientists and applied as a soil quality enhancer and environmental ameliorator in various trials worldwide This book with 21 chapters by 57 accomplished international researchers reports on the recent advances of biochar research and the global status of biochar application Scientific findings uncertainties and barriers to practice of biochar amendment for sustaining soil fertility improving crop production promoting animal performance remediating water and land and mitigating greenhouse gas emissions are synthesized The

book presents a whole picture of biochar in its production characterization application and development Agricultural and Environmental Applications of Biochar Advances and Barrier highlights the mechanisms and processes of biochar amendment for achieving stunning agricultural and environmental benefits Composition and characteristics of biochar its interactions with contaminants and soil constituents and its transformation in the environment are illustrated to enlighten the achievements of biochar amendment in improving soil physical chemical and biological quality and animal health reducing soil greenhouse gas emissions and decontaminating stormwater and mine sites Additional emphasis is given to the pyrogenic carbon in Terra Preta soils and Japanese Andosols the pyrolysis technology for converting agricultural byproducts to biochar and the existing economic and technical barriers to wide application of biochar in Australia China New Zealand North America and Europe Readers will appreciate the comprehensive review on the up to date biochar research and application and gain critical guidance in best biochar generation and utilization

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