MICROORGANISMS IN PLANT CONSERVATION AND BIODIVERSITY



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Microorganisms In Plant Conservation And Biodiversity

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Microorganisms In Plant Conservation And Biodiversity:

Microorganisms in Plant Conservation and Biodiversity K. Sivasithamparam, K.W. Dixon, R.L. Barrett, 2007-05-08 Plant conservation is increasingly recognised as an outstanding global priority yet despite considerable efforts over the last few decades the number of threatened species continues to rise The practice of plant conservation has for too long been a rather hit or miss mixture of methods While microorganisms have been recognised as a crucial and essential element in supporting the lifecycles of plant species there has been limited recognition of the relationships between macro level conservation facilitating ecosystem functioning at the micro level This book addresses the role of microorganisms in conservation both their support functions and deleterious roles in ecosystem processes and species survival Importantly a number of authors highlight how microbial diversity is itself now under threat from the many and pervasive influences of man What is clear from this volume is that like many contemporary treatments of plant and animal conservation the solution to mitigate the erosion of biodiversity is not simple This book represents an attempt to bring to the fore the ecological underwriting provided by Microbial Resource Conservation Sushil K. Sharma, Ajit Varma, 2018-10-31 This book covers broad microorganisms areas in the conservation of microorganisms It addresses the short medium and long term preservation of agriculturally important microorganisms as well as culture collections and their roles The respective chapters address topics such as conventional approaches to bacterial fungal and algal preservation as well as methods and strategies for preserving recalcitrant microorganisms Readers will also find the latest insights into the preservation of vesicular arbuscular VA fungi and ecology diversity and conservation of endophytes and entamopathogenic fungi Microbes of animal and dairy origin their preservation and biosafety issues are also explored Microorganisms are the silent and unseen majority of life on Earth and are characterized by a high degree of genetic and metabolic diversity It is well documented that no branch of science or society is unaffected by microbial interventions Researchers have documented microorganisms from such extreme and unique environments as deserts and hydrothermal vents and with specific traits that are currently being exploited in agriculture industry medicine and biotechnological applications Such great potential can only be found in microorganisms The aim of this book the first entirely devoted to the conservation of microorganisms and to regulatory mechanisms for access and benefits sharing as per Biological Diversity BD Act 2002 is to promote awareness of our world s microbial wealth and to introduce readers to strategies and methodologies for the conservation of microorganisms which could ultimately save human life on Earth Biodiversity and Biomedicine Munir Ozturk, Dilfuza Egamberdieva, Milica Pesic, 2020-07-16 Biodiversity and Biomedicine Our Future provides a new outlook on Earth's animal plant and fungi species as vital sources for human health treatments While there are over 10 million various species on the planet only 2 million have been discovered and named This book identifies modern ways to incorporate Earth's species into biomedical practices and emphasizes the need for biodiversity conservation Written by leading biodiversity and biomedical experts the book begins

with new insights on the benefits of biologically active compounds found in fungi and plants including a chapter on the use of wild fruits as a treatment option The book goes on to discuss the roles of animals such as amphibians and reptiles and how the threatened presence of these species must be reversed to conserve biodiversity It also discusses marine organisms including plants animals and microbes as essential in contributing to human health Biodiversity and Biomedicine Our Future is a vital source for researchers and practitioners specializing in biodiversity and conservation studies Students in natural medicine and biological conservation will also find this useful to learn of the world's most bio rich communities and the Conserving Biodiversity National Research Council, Board on Science and molecular diversity of various species Technology for International Development, 1992-02-01 The loss of the earth's biological diversity is widely recognized as a critical environmental problem That loss is most severe in developing countries where the conditions of human existence are most difficult Conserving Biodiversity presents an agenda for research that can provide information to formulate policy and design conservation programs in the Third World The book includes discussions of research needs in the biological sciences as well as economics and anthropology areas of critical importance to conservation and sustainable development Although specifically directed toward development agencies non governmental organizations and decisionmakers in developing nations this volume should be of interest to all who are involved in the conservation of biological diversity Microbial Diversity and Ecology in Hotspots Aparna Gunjal, Sonali Shinde, 2021-11-25 Biodiversity is seen everywhere including microorganisms human sic plants and animals Microbes are explored from the coldest to the hottest areas in the world The hotspots are zones with extremely high microbial activities The knowledge of microbial diversity from these hotspots is very limited Characterizing microbial communities in these areas may add into the heritage of the hotspots It is therefore necessary to conserve this biodiversity for the balance in the environment The book Microbial Diversity and Ecology in Hotspots covers the following important aspects viz Microbial ecology and diversity in hotspots Extremophiles in biodiversity hotspots Conservation of biodiversity and microbial association Marine microbial hotspots especially related to corals Phyllosphere and rhizosphere in the hotspots Diversity of actinomycetes in Western Ghats Molecular analyses of microbial diversity in different ecology Legal protection of microbial biodiversity etc Page 4 of cover Pathogen and Microbial Contamination Management in Micropropagation Alan C. Cassells, 1997-10-31 This book is based mainly on invited and offered papers presented at the Second International Symposium on Bacterial and Bacteria like Contaminants of Plant Tissue Cultures held at University College Cork Ireland in September 1996 with additional invited papers The First International Symposium on Bacterial and Bacteria like Contaminants of Plant Tissue Cultures was held at the same venue in 1987 and was published as Acta Horticulturae volume 225 1988 In the intervening years there have been considerable advances in both plant disease diagnostics and in the development of structured approaches to the management of disease and microbial contamination in micropropagation These approaches have centred on attempts to separate spatially the problems of disease

transmission and laboratory contamination Disease control is best achieved by establishing pathogen free cultures while laboratory contamination is based on subsequent good working practice Control of losses due to pathogens and microbial contamination in vitro addresses arguably the most importance causes of losses in the industry nevertheless losses at and post establishment can also be considerable due to poor quality microplants or micro shoots In this symposium a holistic approach to pathogen and microbial contamination control is evident with the recognition that micropropagators must address pathogen and microbial contamination in vitro and diseases and microplant failure at establishment There is increasing interest in establishing beneficial bacterial and mycorrhizal association with microplants in vitro and in vivo

Land Use Intensification Saul Cunningham, Andrew Young, David Lindenmayer, 2012-07-18 There can be little doubt that there are truly colossal challenges associated with providing food fibre and energy for an expanding world population without further accelerating already rapid rates of biodiversity loss and undermining the ecosystem processes on which we all depend These challenges are further complicated by rapid changes in climate and its additional direct impacts on agriculture biodiversity and ecological processes There are many different viewpoints about the best way to deal with the myriad issues associated with land use intensification and this book canvasses a number of these from different parts of the tropical and temperate world Chapters focus on whether science can suggest new and improved approaches to reducing the conflict between productive land use and biodiversity conservation Who should read this book Policy makers in regional state Microbial Biodiversity P. Ponmurugan, J. and federal governments as well as scientists and the interested lay public Senthil Kumar, 2020-03-18 Biodiversity is among the richest treasures of the earth Despite their small size microbes play a vital role in environmental monitoring and making the earth sustainable Microorganisms preserve and assist plants and animals o either directly or indirectly and due to their omnipresence in nature they inhabit conditions such as extreme temperatures water soil salt medical wastes agricultural wastes and air Microbes are also important in human culture and play an essential role in existence of life They are present in food fermentation sewage treatment medical agricultural and soil waste antibiotics soil fertility model organisms and human microbiota aid with decomposition and are responsible for infectious diseases This volume represents an important contribution to the field highlighting the importance of microbial biodiversity to society **Orchid Conservation** Kingsley W. Dixon, 2003 Biodiversity, Natural Products And Cancer Treatment Thomas Efferth, Victor Kuete, 2014-07-15 This book is the first of its kind in bringing together biodiversity chemical ecology phytochemistry and cancer therapy The highlight of the book is an exhaustive compilation of scientific data on biodiversity of medicinal plants biodiversity and metagenomics chemical ecology of medicinal plants chemical ecology of marine organisms natural products from terrestrial microbial organisms with activity towards cancer cells marine organisms ethnopharmacology and phytotherapy contribution of African flora in world fight against cancer natural products derived from terrestrial plants with activity towards cancer cells and established anticancer drugs from natural origin The book

discusses the state of the art of each topic to serve as reference resource tools for graduate students as well as scientists and scholars in pharmaceutical sciences pharmacology organic chemistry and biochemistry pharmacognosy phytochemistry ethnomedicine and ethnopharmacology complementary and alternative medicine medical and public health sciences and others It includes cutting edge developments in anticancer discovery from both medicinal plants and organisms and Rangeland Soils of the United States Under Changing Conditions Richard V. Pouyat, Deborah S. Page-Dumroese, Toral Patel-Weynand, Linda H. Geiser, 2020-09-02 This open access book synthesizes leading edge science and management information about forest and rangeland soils of the United States It offers ways to better understand changing conditions and their impacts on soils and explores directions that positively affect the future of forest and rangeland soil health This book outlines soil processes and identifies the research needed to manage forest and rangeland soils in the United States Chapters give an overview of the state of forest and rangeland soils research in the Nation including multi decadal programs chapter 1 then summarizes various human caused and natural impacts and their effects on soil carbon hydrology biogeochemistry and biological diversity chapters 2 5 Other chapters look at the effects of changing conditions on forest soils in wetland and urban settings chapters 6.7 Impacts include climate change severe wildfires invasive species pests and diseases pollution and land use change Chapter 8 considers approaches to maintaining or regaining forest and rangeland soil health in the face of these varied impacts Mapping monitoring and data sharing are discussed in chapter 9 as ways to leverage scientific and human resources to address soil health at scales from the landscape to the individual parcel monitoring networks data sharing Web sites and educational soils centered programs are tabulated in appendix B Chapter 10 highlights opportunities for deepening our understanding of soils and for sustaining long term ecosystem health and appendix C summarizes research needs Nine regional summaries appendix A offer a more detailed look at forest and rangeland soils in the United States and The Fungal Kingdom Joseph Heitman, Barbara J. Howlett, Pedro W. Crous, Eva H. Stukenbrock, Timothy its Affiliates Yong James, Neil A. R. Gow, 2020-07-10 Fungi research and knowledge grew rapidly following recent advances in genetics and genomics This book synthesizes new knowledge with existing information to stimulate new scientific questions and propel fungal scientists on to the next stages of research This book is a comprehensive guide on fungi environmental sensing genetics genomics interactions with microbes plants insects and humans technological applications and natural product Conservation Biology for All Navjot S. Sodhi, Paul R. Ehrlich, 2010-01-07 Conservation Biology for All development provides cutting edge but basic conservation science to a global readership A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting edge conservation knowledge as widely as possible Important topics such as balancing conversion and human needs climate change conservation planning designing and analyzing conservation research ecosystem services endangered species management extinctions fire habitat loss and invasive species are covered Numerous textboxes describing additional relevant material or

case studies are also included The global biodiversity crisis is now unstoppable what can be saved in the developing world will require an educated constituency in both the developing and developed world Habitat loss is particularly acute in developing countries which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found Sadly developing world conservation scientists have found it difficult to access an authoritative textbook which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest There is now an urgent need to educate the next generation of scientists in developing countries so that they are in a better position to protect their natural resources **Biodiversity and Ecosystem** Functioning Michel Loreau, Shahid Naeem, Pablo Inchausti, 2002 This is the hottest area in ecology and environmental sciences right now I think this is an excellent proposal Professor James Grover University of Texas at Arlington USA The outline is excellent This is going to be the hottest book in ecology over the next 5 to 10 years Professor Michael Hochberg Universite de Montpellier 2 FranceDetermining the scientific relationship between biodiversity and ecosystem functioning has now emerged as one of the most important challenges in ecological and environmental science This book provides a timely synthesis and critical assessment in order to generate a consensus on the main issues involved and stimulate new perspectives for future research Plant Conservation and Biodiversity David L. Hawksworth, Alan T. Bull, 2007-09-18 Non timber forest products NTFP hold economic and cultural signi cance for millions of people across the globe For instance hundreds of millions of rural peoples currently derive a signi cant portion of both their subsistence needs and cash income from gathered plant and animal products Igbal 1993 Vedeld et al 2004 Thousands of wild NTFP are also harvested for local use in other cultural and religious activities such as rituals ceremonies and dances e g FAO 1991 A growing body of literature has illustrated that NTFP harvest can have e logical consequences at multiple ecological scales and that demographic responses to harvest are heavily in uenced by harvesting practices see review by Ticktin 2004 However although many NTFP are harvested from disturbed habitats and subject to multiple pressures Cunningham 2001 few quantitative studies have addressed this issue For example a small number of studies have assessed the demographic effects of NTFP management practices in the context of browsing or grazing Endress et al 2004b Ghimire et al 2005 or human induced re Ticktin 2005 Nonetheless the demographic consequences of NTFP harvest and mana ment in the context of other disturbance factors such as alien invasive species have not been addressed to date Potential Microorganisms for Sustainable Agriculture D. K. Maheshwari, 2013-12-30 The number of potential microbes exploited commercially is scanty irrespective of their high number present in the diverse habitats In recent years they have shown successfulness in multifarious areas such as production of industrially viable products organic chemicals pharmaceuticals recovery of metals improvement and maintenance of environmental quality and insect and pest control The Twenty three articles included here fall under three broad categories namely agricultural microbiology industrial microbiology and bioremediation. The psychrophiles hold many biological secrets

such as biochemical limits to macromolecular stability and the blueprints for constructing the stable macromolecules Lactic acid bacteria are known for their role in the preparation of fermented dairy products Potential strains for production of lactic acid with emphasis on its fermentation economics and systematics have been dealt with in greater detail Biotechnological applications of pectinases in general and alkaline pectinases in particular play an important role in industry Production characteristics and applications of microbial alkaline pectinolytic enzymes have been elaborated Production of ergot alkaloids thrives a novel knowledge Now a days semi synthetic ergot alkaloids are widely used as a potential therapeutic agent Microbial production of glucans functional organization and their industrial significance have been systematically reviewed Bioactive exopolysaccharides from mushrooms have gained importance in recent years Production and characterization of exopolysaccharides and conversion of unsaturated fatty acids into value added hydroxyl fatty acids by using microorganisms are used in a wide range of industrial products Enhancing the microbial production of 1 3 propanidial and its application highlights the commercial exploitation of potential microorganisms Aldehyde and organic acid production by using oxydases and their derivatives advantageous role in industry Some chapters are devoted to the potential entomopathogenic fungi for management of insect pests biotechnological applications of fusaria microbial metabolite mediated biocontrol of soil borne plant pathogens bioremediation of heavy metals organochlorine and organophosphate pesticides Bioinoculants apart from being eco friendly are being used but reviewers have emphasized the constraints in commercial bioinoculant production and their quality assurance All the articles of this volume depict the role of microorganisms in agricultural industries The exploitation of such beneficial microorganisms may improve agricultural systems with economically sound production of human food and animal feed This volume will certainly help the PG and research students of agricultural microbiology and biotechnology Microbial Diversity T. Satyanarayana, 2005 Microbial Diversity Current Perspectives and Potential Applications is woven around the recent global perceptions of microbial diversity Diverse perspectives are discussed in the context of ecosystem dynamics taking into consideration environments that are rather unique to microorganisms Considerable focus is placed on the role that microorganisms play in sustainable production systems. The microbe plant interaction dynamic is highlighted in the discussion of mycorrhizal partners on which depends not only the plant community structure but also abatement of abiotic and biotic stresses Another mutualist rhizobia gets its due coverage whereas the plant disease component carries examples from both the perspective of fungal and viral diseases Considerable emphasis is placed on a discussion of the environmental issues such as the approaches that will lead to newer bioremediation technologies No discussion of microbial diversity is complete without their implications in animal and human health Discussed in this context are L arginases in cancer therapy as well as bioactives from cyanobacteria Genomics and pathogenicity of two groups of viruses viz blue tongue and flaviviruses is highlighted whereas keratinophilic fungal forms are discussed in the context of dermatophytic infections This volume also carries a fair number of articles on commercial

microbiology Plant-Microbe Interactions in Agro-Ecological Perspectives Dhananjaya Pratap Singh, Harikesh Bahadur Singh, Ratna Prabha, 2017-12-15 This book puts an updated account on functional aspects of multiphasic microbial interactions within and between plants and their ecosystem Multipronged interaction in the soil microbial communities with the plants constitute a relay of mechanisms that make profound changes in plant and its micro environment in the rhizopshere at physiological biochemical and molecular levels In agro ecological perspectives such interactions are known to recycle nutrients and regulate signalling molecules phytohormones and other small molecules that help plant growth and development Such aspects are described deeply in this book taking examples from various crop plants and microbial systems Authors described the most advantageous prospects of plant microbe interaction in terms of inoculation of beneficial microorganisms microbial inoculants with the plants in which microbes proliferate in the root rhizosphere system and benefit plants with definite functions like fixation of nitrogen solubilization and mobilization of P K Zn and production of phytohormones The subject of this book and the content presented herein has great relevance to the agro ecological sustainability of crop plants with the help of microbial interactions. The chapters presented focus on defining and assessing the impact of beneficial microbial interactions on different soils crops and abiotic conditions. This volume entails about exploiting beneficial microbial interactions to help plants under abiotic conditions microbe mediated induced systemic tolerance role of mycorrhizal interactions in improving plant tolerance against stresses PGPR as nutrient mobilizers phytostimulants antagonists and biocontrol agents plant interactions with Trichoderma and other bioagents for sustainable intensification in agriculture cyanobacteria as PGPRs plant microbiome for crop management and phytoremediation and rhizoremediation using microbial communities The overall content entrust advanced knowledge and applicability of diversified biotechnological techno commercial and agro ecological aspects of microbial interactions and inoculants as inputs which upon inoculation with crop plants benefit them in multiple ways The Role of Smallholder Farms in Food and Nutrition Security Sergio Gomez y Paloma, Laura Riesgo, Kamel Louhichi, 2020-05-14 This open access book discusses the current role of smallholders in connection with food security and poverty reduction in developing countries It addresses the opportunities they enjoy and the constraints they face by analysing the availability access to and utilization of production factors Due to the relevance of smallholder farms enhancing their production capacities and economic and social resilience could produce positive impacts on food security and nutrition at a number of levels In addition to the role of small farmers as food suppliers the book considers their role as consumers and their level of nutrition security It investigates the link between agriculture and nutrition in order to better understand how agriculture affects human health and dietary patterns Given the importance of smallholdings strategies to increase their productivity are essential to improving food and nutrition security as well as food diversity Sustainable Living with Environmental Risks Nobuhiro Kaneko, Shinji Yoshiura, Masanori Kobayashi, 2014-03-11 We are not free from environmental risks that accompany the development of human societies Modern economic development has accelerated environmental pollution caused loss of natural habitats and modified landscapes. These environmental changes have impacted natural systems water and heat circulation nutrient cycling and biodiversity. These changes in natural systems degrade ecosystem services and subsequently increase environmental risks for humans. Environmental risks therefore are not only human health risks by pollution climatic anomalies and natural disasters but also degradation of ecosystem services on which most people are relying for their lives. We cannot entirely eliminate the risks because it is not possible to attain zero impact on the environment but we need to find a mechanism that minimizes environmental risks for human sustainably. This is the idea of the interdisciplinary framework of environmental risk management theory which advocates harmony between economic development and environmental conservation Based on this theory the Sustainable Living with Environmental Risk SLER programme adopted by the Japanese Ministry of Education MEXT as one of its strategic programmes has been training graduate students at the Yokohama National University Japan from 2009 to 2013 to become future environmental leaders who will take the initiative in reducing the level of environmental risks and in protecting natural resources in the developing nations of Asia and Africa This book provides students and teachers of this new academic field with a comprehensive coverage of case studies of environmental risks and their practical management technologies not only in Japan but also in developing nations in Asia and Africa

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