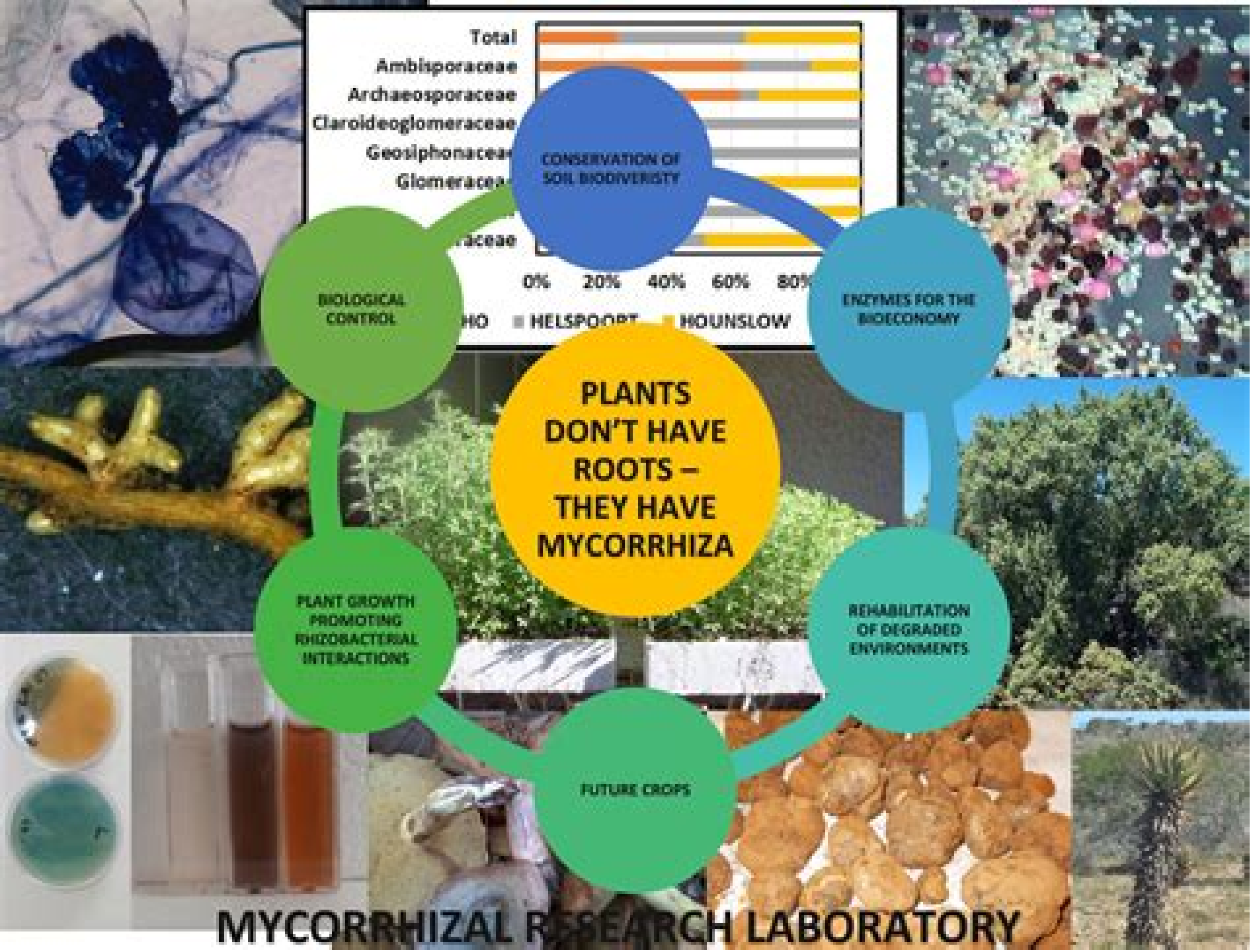




Concepts In Mycorrhizal Research

**Manoj Parihar, Amitava Rakshit, Alok
Adholeya, Yinglong Chen**



Concepts In Mycorrhizal Research:

Concepts in Mycorrhizal Research K.G. Mukerji, 1996-12-31 Mycorrhiza will be the focus of research and study for the coming decade Successful survival and maintenance of plant cover is mostly dependent on mycorrhization During the last decade about ten books have appeared on various aspects of mycorrhiza including two on methodology The present book has been compiled to give a complete and comprehensive description of the topic to the students and researchers in botany applied mycology biotechnology forestry and agriculture The book will also be useful to planners dealing with biofertilizers and forestation Besides topics of academic interest the volume includes several aspects which are unique and are written about for the first time e g Arbuscular Mycorrhizal symbiosis recognition and specificity Mycorrhizal Integration and cellular compatibility between Endomycorrhizal symbionts Cost economics of existing methodology for inoculum production of vesicular arbuscular mycorrhizal fungi Mycorrhiza Ecological Implications of Plant interactions Outplanting performance of mycorrhizal inoculated seedlings Fluorescence microscopy in mycorrhiza studies and Ectomycorrhizal fungi as experimental organism Other aspects not mentioned above include most recent reviews concerning vesicular arbuscular mycorrhiza and ectomycorrhizae The different review chapters have been written by world authorities in their respective specialisations giving more up to date information than is provided anywhere else This book deals with all major aspects of mycorrhiza giving structure ultrastructure ecology and applications in agriculture and forestry

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Techniques in Mycorrhizal Studies

K.G. Mukerji, C. Manoharachary, B.P. Chamola, 2013-03-14 The importance of mycorrhiza for the improvement of plant growth is increasingly being realised in Agriculture and Forestry and several mycorrhizal fungi have been commercially recognised for the purpose The aim of this book is to describe the various techniques used to study the mycorrhizal biology Problems with preparing such a book are many Mainly mailing of manuscripts to and from authors resulted in irregular and final editing Every effort was made not to change the peer review original manuscript to ensure accuracy Our sole aim is to communicate to the greatest extent possible a current world need in mycorrhizal research Plant productivity is regulated by microbial associations established in the plant root systems The interactions of microorganisms and plant roots are especially important in providing nutritional requirements of the plant and the associated microorganisms Plant growth and development are controlled largely by the soil environment in the root region rhizosphere This is a very complex environment in which the effects of the plant on soil microorganisms and the effects of microorganisms on the plant are interacting interdependent and highly complex Plant root exudates and breakdown products feed the microbes and the microbe in turn often benefit the plant Mycorrhizal fungi are important tools for increasing growth development and yield of economically important plants they play an important role of biofertilizer which can help establish plants in nutrient deficient soils particularly phosphorus deficient soils arid semi arid and waste lands

Mycorrhizal Biology K.G. Mukerji, B.P. Chamola, Jagjit Singh, 2012-12-06

The fundamental problem the world faces today is the rapidly increasing pressure of population on the limited resources of the land To meet the ever increasing demands of expanding populations agricultural production has been raised through the abundant use of inorganic fertilizers the adoption of multicropping systems and

liberal application of chemical pesticides fungicides bactericides etc Though the use of chemicals has increased the yield dramatically it has also resulted in the rapid deterioration of land and water resources apart from wastage of scarce resources This has adversely affected the biological balance and lead to the presence of toxic residues in food soil and water in addition to imposing economic constraints on developing countries From the Preface Mycorrhizal Biology addresses the global problem of land degradation and the associated loss of soil productivity and decline in soil quality caused by exploitative farming practices and poor management in developing countries and the far reaching socio economic and ecological consequences of its impact on agricultural productivity and the environment In the light of a need for sustainable development a new system of productive agriculture to ensure the efficient management of agricultural inputs for long term high crop productivity with minimum damage to the ecological and socio economic environment is essential The management of mycorrhizal fungi will form a significant part of such a system and this work investigates the key association of plant roots with mycorrhizal fungi known to benefit plants under conditions of nutritional and water stress and pathogen challenge and analyses the developments in our understanding of the genetic loci that govern mycorrhiza formation

General Concepts in Integrated Pest and Disease Management

A. Ciancio, K.G. Mukerji, 2007-07-20 The proposal for this series originated during a short term visit of Professor Mukerji to the Plant Protection Institute of CNR at Bari Italy in November 2005 Both editors agreed on the need to produce a volume focusing on recent advances and achievements which changed the practice of crop protection in the last decade The opera rapidly evolved towards a long term editorial endeavour yielding a multidisciplinary series of five volumes In view of environmental and health concerns a determined effort is currently made in almost any agroecosystem in the world to reduce and rationalize the use of chemicals pesticides fungicides nematocides etc and to manage pests pathogens more effectively This consciousness is not only related to the need of nourishing a still growing world population but also derives from the impact of side effects of farming like soil water and environmental contamination calling for a responsible conservation of renewable resources There are increasing expectations at the producers and consumers levels concerning low inputs agriculture and residues free food Disciplines like IPM IDM integrated pest management integrated disease management are now central to the science and technology of crop protection In the classical version of IPM IDM a pesticide fungicide is applied only when the pathogen population reaches a level that would lead to economic losses in the crop In other words classical IPM IDM concentrates on reducing the numbers of noxious organisms through the application of agrochemicals

Microorganisms in Soils: Roles in Genesis and Functions

Francois Buscot, Ajit Varma, 2007-01-04 Soils would not exist without the complex and heterogeneous activities of microorganisms For the third volume of Soil Biology an international board of renowned scientists shed light on the significant role of these organisms The following key topics are covered Microorganisms in bioerosion humification mineralization and soil aggregation Microbial energetics and microbes in biogeochemical processes such as carbon and

nitrogen cycles and phosphorus bio availability Interactions in the mycorrhizosphere e g between mycorrhizal fungi and bacteria Impact of microbes on plant nutrient cycling and the possible effects of transgenic rhizospheres on soil fungi Functions of microbes in specific soil compartments such as soil surface or toxic metal polluted soils Regulation of microbial activities in functional domains that are influenced by biotic or abiotic factors Use of marker genes and isotopes as examples for modern techniques in soil microbiology

Mycorrhiza - Function, Diversity, State of the Art Ajit Varma, Ram Prasad, Narendra Tuteja, 2017-05-11 This is the fourth updated and revised edition of a well received book that emphasises on fungal diversity plant productivity and sustainability It contains new chapters written by leading experts in the field This book is an up to date overview of current progress in mycorrhiza and association with plant productivity and environmental sustainability The result is a must hands on guide ideally suited for agri biotechnology soil biology fungal biology including mycorrhiza and stress management academia and researchers The topic of this book is particularly relevant to researchers involved in mycorrhiza especially to food security and environmental protection Mycorrhizas are symbioses between fungi and the roots of higher plants As more than 90% of all known species of plants have the potential to form mycorrhizal associations the productivity and species composition and the diversity of natural ecosystems are frequently dependent upon the presence and activity of mycorrhizas The biotechnological application of mycorrhizas is expected to promote the production of food while maintaining ecologically and economically sustainable production systems

Mycorrhiza Ajit Varma, 2008-09-09 This book is perfectly timed for the worldwide explosion of interest in mycorrhizal research With a strong emphasis on the latest findings in genetics and molecular biology it contains all current information and speculation on the structure function and biotechnological applications of mycorrhizas

Instant Insights: Plant growth-promoting rhizobacteria Dr Dongmei Lyu, Dr Rachel Backer, Prof Donald Smith, Dr Melissa M. Larrabee, Prof Louise Nelson, Dr Markus Weinmann, Prof Günter Neumann, Dr Luca Rui, 2021-06-15 This collection features four peer reviewed literature reviews on plant growth promoting rhizobacteria in agriculture The first chapter considers the use of plant growth promoting rhizobacteria PGPR as plant biostimulants in agriculture It considers the benefits of PGPR such as their ability to promote plant growth and productivity under both normal and abiotic stressed induced environments The chapter also looks towards PGPR application as a sustainable and efficient method to enhance crop production The second chapter reviews recent research on the use of PGPR as biofertilizers to enhance root function and improve nutrient uptake with emphasis on their effects on root architecture metabolism and adaptation to abiotic stress The third chapter explores the use of microbial bio effectors and their ability to optimise the mineral nutrition of agricultural crops The chapter also reviews the wealth of research on the mechanism of action applications and efficacy of key plant growth promoting microorganisms PGPMs The final chapter reviews the use of plant growth promoting bacteria PGPB as a biocontrol agent against invertebrate pests The chapter analyses the effects of PGPB species against these pest types and enlists a case study on the PGPB species

Pseudomonas protegens to further demonstrate this

Eukaryotic Microbes Moselio Schaechter, 2012 Eukaryotic Microbes presents chapters hand selected by the editor of the Encyclopedia of Microbiology updated whenever possible by their original authors to include key developments made since their initial publication The book provides an overview of the main groups of eukaryotic microbes and presents classic and cutting edge research on content relating to fungi and protists including chapters on yeasts algal blooms lichens and intestinal protozoa This concise and affordable book is an essential reference for students and researchers in microbiology mycology immunology environmental sciences and biotechnology Written by recognized authorities in the field Includes all major groups of eukaryotic microbes including protists fungi and microalgae Covers material pertinent to a wide range of students researchers and technicians in the field

In Vitro Culture of Mycorrhizas Stéphane Declerck, D. G. Strullu, André Fortin, 2005-04-13 This is the first book describing in vitro cultivation of root organs The text describes various biological aspects such as the physiology biochemistry biodiversity and life cycles of fungi as well as the effects of symbiosis on plant growth and development including large scale fungus production for biotechnological use Detailed protocols allow the immediate application of the method to culture mycorrhizal fungi in vitro

Mycorrhizal Technology in Agriculture S. Gianinazzi, Hannes Schüepp, J.M. Barea, K. Haselwandter, 2012-12-06 Arbuscular Mycorrhiza AM is the most common mycorrhizal type involved in agricultural systems and the most widespread plant root symbiosis The fungi involved Glomales are known to promote plant growth and health by acting as biofertilizers bioprotectors and bioregulators The main aim of this book is to provide readers with theoretical and applied knowledge essential for the use of AM fungi in improving plant health and fitness production of high quality food and in conservation of natural resources The different chapters target understanding the role of AM fungi in sustainable crop production discussing ways to improve biological equilibria between microorganisms in the mycorrhizosphere analysing genetic physiological cellular and molecular bases of AM functioning and establishing technologies for inoculum production according to the regulatory guidelines for application

Integrated Pest And Disease Management K. G. Mukerji Rajeev H. Upadhyay, O B. P. Chamola, P. Dueby, 2009 The present book consist of 30 reviews on important pest and diseases of cash cereals oilseed vegetables fodders fruits and pulses etc Most of these articles have been prepared by authorities in their receptive areas There is worldwide swing to the use of ecologically safe environment friendly methods of protecting crops from pests and pathogens

Mycorrhizae in Crop Production Chantal Hamel, 2007-11-07 Design cropping practices that make the most of the contribution of AM fungi Mycorrhizae in Crop Production is a comprehensive guide to the use of arbuscular mycorrhizal fungi AMF in developing sustainable cropping systems This unique book examines how AMF benefit crop plants in both greenhouse and field crop production It s als

Arbuscular Mycorrhizal Fungi in Sustainable Agriculture: Nutrient and Crop Management Manoj Parihar, Amitava Rakshit, Alok Adholeya, Yinglong Chen, 2024-06-03 This 2 volume book is an up to date overview of current progress in Arbuscular Mycorrhizal Fungal AMF technique

development inoculum production and its quality regulations application in agriculture horticulture agroforestry and other ecosystems along with nutrient management for sustainable food production It offers new insight and cutting edge information for novices and experts such as students academicians researchers environmentalists industrialists and other individuals interested in the field of mycorrhiza AMF provides favorable rhizospheric environment to the plant with numerous direct and indirect mechanisms in exchange of soil nutrients and photosynthetically fixed carbon Other than the species composition and diversity determination of natural ecosystem AMF play a vital role in maintaining the soil quality agricultural sustainability and environmental integrity The second volume provide comprehensive knowledge on AMF role in nutrient cycling nutrient exchange and their acquisition under normal and stress condition *Mycorrhizal Fungi: Use in Sustainable Agriculture and Land Restoration* Zakaria M. Solaiman, Lynette K. Abbott, Ajit Varma, 2014-12-29 This volume explores the various functions and potential applications of mycorrhizas including topics such as the dynamics of root colonization soil carbon sequestration and the function of mycorrhizas in extreme environments Some contributions focus on the use of arbuscular mycorrhizal fungi in various crop production processes including soil management practices their use as biofertilizers and in relation to medicinal plants Other chapters elucidate the role of arbuscular mycorrhizal fungi in the alleviation of plant water stress and of heavy metal toxicity in the remediation of saline soils in mining site rehabilitation and in the reforestation of degraded tropical forests In addition to their impact in ecosystems the economic benefits of applying arbuscular mycorrhizal fungi are discussed A final chapter describes recent advances in the cultivation of edible mycorrhizal mushrooms *Diversity and Integration in Mycorrhizas* Sally E. Smith, F. Andrew Smith, 2013-12-18 This book is highly recommended on the basis of the following points The editors are highly regarded in the field of mycorrhizal biology and one is co author of the most comprehensive textbook on mycorrhizas Chapters by international experts based on invited presentations at the 3rd International Conference on Mycorrhizas supplemented by invited chapters on special topics Mycorrhizas are being increasingly recognised as ubiquitous plant fungal symbioses with the potential to influence the function and ecology of around 90% of all land plants perhaps the most common and also ancient terrestrial symbioses in existence This book has a broad coverage of biology of symbioses between mycorrhizal fungi and plants especially ecto and arbuscular mycorrhizas other recent texts have focused mainly on arbuscular mycorrhizal symbioses Forward looking review chapters by keynote speakers including an overview of research challenges for the future Up to date research focus Coverage includes molecular diversity and detection of mycorrhizal fungi cellular and molecular interactions between the symbionts physiology of the interactions implications of the symbioses for ecosystem processes including agriculture Several complementary chapters on some topics ensuring that different perspectives are presented recent edited volumes have had a smaller group of authors and hence narrower focus Readership from advanced undergraduate students in biology particularly plant science postgraduate students and researchers in universities and government agencies **Mixed**

Plantations of Eucalyptus and Leguminous Trees Elke Jurandy Bran Nogueira Cardoso, José Leonardo de Moraes Gonçalves, Fabiano de Carvalho Balieiro, Avílio Antônio Franco, 2020-03-19 The aim of this book is to present in depth updated information on soil and microbial processes involved in mixed plantations of Eucalyptus and N₂ fixing species especially Acacia mangium focusing on Forestry Soils Biology Ecosystem Services and Sustainability The potential of substituting chemical N fertilizer by a consortium of leguminous species that fix atmospheric nitrogen is an interesting solution for a more sustainable economically and environmentally sound forest system Among the main topics we present reference topics on soil microbiology as biological nitrogen fixation the role of mycorrhiza in mixed plantations bio indicators of soil quality and plant growth promoting bacteria with biotechnological potential Here we discuss Ecosystem services and ecological benefits of these systems the invasive potential of A mangium as well as the regulations and perspectives of land use policies for mixed forests and their role in the sustainability of the system **Biotechnological Approaches in Biocontrol of Plant Pathogens** K.G. Mukerji, B.P. Chamola, Rajeev K. Upadhyay, 2012-12-06 Biological control offers a promising alternative to chemical control which can have adverse environmental implications This volume contains 16 articles describing the most modern topics in biocontrol of plant pathogens including risk analysis for the release of microbial antagonists genetic engineering and application of tissue culture

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