MICROBIOLOGY OF TROPICAL SOILS AND PLANT PRODUCTIVITY

YR DOMMERGUES/H.G. DIEM (EDITORS)

Microbiology Of Tropical Soils And Plant Productivity

Inamuddin, Charles Oluwaseun Adetunji, Mohd Imran Ahamed, Tariq Altalhi

Microbiology Of Tropical Soils And Plant Productivity:

Microbiology of Tropical Soils and Plant Productivity Y.R. Dommergues, G.H. Diem, 2012-12-06 It is an established fact that we must continually increase and improve agricultural production if we are to meet even the minimum requirements of a growing population for food shelter and fuel In recent years the introduction of new plant varieties and the extensive use of fertilizers have effectively increased crop yields but intensifying agricultural methods has often led to depleting soil fertility Two examples of the harmful consequences of intensive farming practices are the loss of up to 2.5 cm of topsoil every 15 years in the United States through erosion and the alarming rise in environmental pollution through widespread use of pesticides Countless other processes affecting the activity of soil micro flora and the inter actions between microorganisms and plants may pose an equal danger to soil equilibrium but their potential hazards are often overlooked because of an insufficient understanding of soil microbiology on the part of scientists In the first published study of its kind the authors of this book have attempted to address major aspects of the microbial activity of soil in the tropics Tropical conditions serve as an ideal context for a discussion of soil microbiology since biological processes in the soil are particularly active in tropical environments in comparison to other settings and in relation to physical and chemical processes Microbiology of Tropical Soils and Plant Productivity Y. R. Dommergues, 1982 Plant, Soil and Microbes in Tropical Ecosystems Suresh Kumar Dubey, Satish Kumar Verma, 2021-09-25 This book describes the multitude of interactions between plant soil and micro organisms It emphasizes on how growth and development in plants starting from seed germination is heavily influenced by the soil type It describes the interactions established by plants with soil and inhabitant microbial community The chapters describe how plants selectively promote certain microorganisms in the rhizospheric ecozone to derive multifarious benefits such as nutrient acquisition and protection from diseases The diversity of these rhizospheric microbes and their interactions with plants largely depend on plant genotype soils attributes and several abiotic and biotic factors Most of the studies concerned with plant microbe interaction are focused on temperate regions even though the tropical ecosystems are more diverse and need more attention Therefore it is crucial to understand how soil type and climatic conditions influence the plant soil microbes interaction in the tropics Considering the significance of the subject the present volume is designed to cover the most relevant aspects of rhizospheric microbial interactions in tropical ecosystems Chapters include aspects related to the diversity of rhizospheric microbes as well as modern tools and techniques to assess the rhizospheric microbiomes and their functional roles The book also covers applications of rhizospheric microbes and evaluation of prospects improving agricultural practice and productivity through the use of microbiome technologies This book will be extremely interesting to microbiologists plant biologists and ecologists *Plant Nutrition - Physiology and Applications M.L.* Van Beusichem, 2012-12-06 Exactly 35 years after the first Colloquium was held the Eleventh International Plant Nutrition Colloquium took place from 30 July to 4 August 1989 in Wageningen The Netherlands Although impressive progress has been

made during the past decades in our understanding of the mechanisms of uptake distribution and assimilation of nutrients in relation to crop yield and quality there are still significant gaps in our insight into many fundamental aspects of plant mineral nutrition and related metabolic processes In spite of improved knowledge of nutrient requirements of crops and improved fertilizer application strategies the world population remains to be burdened with an enormous shortage of plant products for food timber fuel shelter and other purposes The main challenge facing the plant nutrition research community is to at least alleviate the increasing world wide need for applying scientific knowledge to practical problems in agriculture horticulture and forestry It is therefore felt by many scientists that the Plant Nutrition Colloquia which are intended to bring together scientists and to integrate knowledge and approaches acquired in plant physiology biochemis try soil science agronomy and related disciplines have indeed made a significant contribution to the advancement of our knowledge and understanding in this vital and interdisciplinary field of agrobiology About 260 scientists from 40 nations attended the Colloquium in Wageningen Nitrogen in Agricultural Systems James Stuart Schepers, William Raun, 2008 Review of the principles and management implications related to nitrogen in the soil plant water system Achieving sustainable cultivation of grain legumes Volume 1 Dr Shoba Sivasankar,Dr David Bergvinson,Dr Pooran Gaur,Dr Shiv Kumar Agrawal,Dr Steve Beebe,Dr Manuele Tamò, 2018-03-12 Reviews key developments in understanding crop physiology and genetic diversity and how they have informed advances in breeding new varieties Coverage of advances across the value chain for grain legume cultivation from variety selection to post harvest storage Discusses the latest trends in disease insect pest and weed management

New Root Formation in Plants and Cuttings M.B. Jackson,2012-12-06 The formation of roots is in some respects one of the least fundamentally understood of all plant functions Propagation by cuttings is the aspect that will occur first to most gardeners and horticulturists and it is certainly the most useful application But any observant traveller in the tropics can notice that some trees have the habit of forming roots in the air Climbers like Cissus bear long fine strings of roots hanging down Pandanus trees tend to have stout aerial roots issuing from the bases of the long branches while the tangle of roots around the trunk of many of the Ficus species is characteristic In Ficus bengalensis in particular stout cylindrical roots firmly embedded in the ground from a height of 3 to 5 meters give support to the long horizontal branches enabling them to spread still further In the big old specimen at Adyar near Madras the spread of these branches all around the tree each with a strong root growing out every few meters makes a shaded area under which meetings of almost 5000 people are sometimes held The history of how the formation of roots on stem cuttings was found to be under hormonal control is worth repeating here

<u>Fundamental</u>, <u>Ecological and Agricultural Aspects of Nitrogen Metabolism in Higher Plants</u> J.T. Lambers, G. Stulen, J.J. Neeteson, 2012-12-06 Rinie Hofstra has been a member of the Department of Plant Physiology University of Groningen the Netherlands for 24 years The nearer we came to 31 March 1985 her 65th birthday the more we all realized how we would miss her not only scientifically but also socially She left her mark on both research and teaching always with an open mind

and willing to change After her PhD Thesis on Nitrogen Metabolism in Tomato Plants she first continued working in that field but soon started a joint project with the Department of Plant Ecology on hemiparasites She then became involved in carbon metabolism which resulted in her giving a Biotrop Course on C C metabolism in 3 4 Indonesia Her own research group originally working on Nitrogen Metabolism soon embraced Energy and Nitrogen Metabolism as the research on respiration became more and more important In running her group she showed all sides of her person She used to stimulate and encourage everyone around her and to integrate the various lines of research At the same time she always had an open mind for the opinion of all members of her group And together they regularly criticized and evaluated the various projects and decided how to continue Microbial Biostimulants for Sustainable Agriculture and Environmental Bioremediation Inamuddin, Charles Oluwaseun Adetunji, Mohd Imran Ahamed, Tariq Altalhi, 2022-06-29 Today the agriculture industry is confronted with simultaneous issues of how to fully embrace mass production of safer food in terms of both quality and quantity Most industries are concerned with avoiding significant levels of soil pollution and environmental threats as a result of the excessive and harmful use of synthetic products on crops Therefore there is a need to adopt sustainable technological innovations that can ensure the sustainability of agricultural production systems Microbial Biostimulants for Sustainable Agriculture and Environmental Bioremediation discusses the benefits challenges and practical applications of eco friendly biotechnological techniques using biostimulants derived from beneficial microorganisms. The chapters cover the use of these organisms to increase crop production enhance soil fertility and maintain soil health create crop and plant tolerance to different abiotic stressors release required nutrients to the soil increase resistance to plant pathogens pests improve nutrient use efficiency of crops and rejuvenate polluted environments FEATURES Explores the physiological morpho anatomical and biochemical molecular plant rejoinders involved in stimulating crop productivity Provides information on the physiological cellular and molecular modes of action underlying microbial biostimulant interfaces Summarizes methods and approaches for executing microbial stimulant technology Outlines numerous environmental management and remediation strategies This book is an ideal resource for researchers engineers and academics working in soil science crop science water remediation microbiology and biotechnology Soil Organic Matter and Biological Activity D. Vaughan, R.E. Malcolm, 2012-12-06 It has long been recognized that soil organic matter is the key to soil fertility. As a nutrient store it gradually provides essential elements which the soil cannot retain for long in inorganic form It buffers growing plants against sudden changes in their chemical environment and preserves moisture in times of drought It keeps the soil in a friable easily penetrated physical condition well aerated and free draining providing young seedlings with an excellent medium for growth But it has another property the nature and extent of which have been the subject of argument and controversy ever since scientists began to study the soil and that is its ability to affect growth directly other than by providing nutrient elements Any one wishing to learn about these effects has been faced with a daunting mass of literature some confusing often contradictory and spread

through a multitude of journals Individual aspects have been covered from time to time in reviews but there has obviously been a need for a modern authoritative text book dealing with the many facets of this subject so the publication of this volume is timely The editors and authors are all specialists in their fields fully familiar with the complex nature of soil organic matter and with the particular difficulties arising in any study of its properties Where controversies exist they have presented all sides of the argument and have highlighted areas where further work is badly needed Actinorhizal Plants M. Lalonde, C. Camiré, J.O. Dawson, 2012-12-06 The fifth meeting of scientists working with Frankia and actinorhizal plants was held at Montmorency Forest of Laval University in Quebec from August 6 8 1984 Results of research presented at the meeting are included in this special volume of Plant and Soil The understanding of actinorhizal systems continue to increase though work and use shops and discussions at this and similar meetings make it evident that this important subject remains open for fruitful investigation at all levels Some important firsts were reported at this meeting The first extensive survey of Frankiae and their host specificity ranges from Asia was presented This is of significance since Asia is a center of diversity for many actinorhizal host plant genera A report that proto plasts of Frankia have been produced and regenerated for the first time improves the possibility for genetic manipulation of Frankia It is also important to note the first report herein of successful mass inoculation of actinorhizal plants commercially for stabilization and reclamation of disturbed soils around hydroelectric power projects in Quebec This heralds the transfer of actinorhizal technology to private and public users The bacterial genus Frankia is easily recognized both in vivo and in vitro and isolation of this organism has become routine But as yet there are not sufficient biochemical morphological or anatomical criteria for establishing species

Management of Nitrogen and Phosphorus Fertilizers in Sub-Saharan Africa Uzo M. Mokwunye, Paul L.G. Vlek, 2012-12-06 Food security one of the basic human rights seems to be ever eluding the people of sub Saharan Africa With each occurrence of crop failure agriculturalists around the world reawaken to the challenge of ensuring stable adequate food production in the tropical African environments The International Fertilizer Development Center IFDC with its mandate of alleviating food shortages through judicial use of fertilizers formulated a program to study fertilizer use strategies for sub Saharan Africa With gener ous financial assistance from the International Fund for Agricultural Development IFAD IFDC in collaboration with the International Crop Re search Institute for the Semi Arid Tropics ICRISAT and the International Institute for Tropical Agriculture IIT A initiated a research project aimed at assessing means to remedy soil nutrient deficiencies that constrain food production in the humid subhumid and semiarid tropics of Africa The results of this project were summarized during a workshop held in Togo March 25 28 1985 the proceedings of that meetings are found in this vol ume The project established collaboration with numerous national programs that were responsible for much of the data collection The data presented in Chapters 6 and 9 include much of this information We wish to acknowledge the contribution of the individual scientists J T Ambe F Ganry M Gaoh M Issaka J Kiazolu J Kikafunde Twine K Kpomblekou F Lompo H

Introduction to Agroforestry P. K. R. Nair, 1993-07-31 The history of agroforestry Definition and concepts of agroforestry community forestry farm forestry and social forestry Agroforestry systems and practices Agroforestry species Soil productivity and protection Design and evaluation of agroforestry systems Agroforestry in the temperate zone Soil Management Bobby A. Stewart, 1995-03-09 The experiments and experiences discussed in Soil Management carefully document crop production systems with well defined boundaries These long term agronomic trials provide a valuable data resource that has until now been largely ignored by both the research community and the sustainability experts With a rigorous definition of sustainability and this data the sustainability of various cropping systems will be more clearly illustrated than any previous effort Particular emphasis is given to research involving the tropics and sub tropics This book is unique in providing an experimental basis for sustainable management of soil resources It describes technological options for sustainable management of soil resources and identifies priorities for additional long term experimentation needed in key ecoregions Topics discussed include changes in soil processes and properties environmental quality soil management soil dynamics soil organic matter and nutrient cycling Soil Management is for those who ask whether agriculture is sustainable want to analyze or review sustainability experiments and experiences or wish to initiate new long term trials It is a valuable reference on soil processes and an excellent text for courses in soil management **Agro-Environmental Sustainability** Jay Shankar Singh, Gamini Seneviratne, 2017-02-14 This two volume work is a testament to the increasing interest in the role of microbes in sustainable agriculture and food security Advances in microbial technologies are explored in chapters dealing with topics such as carbon seguestration soil fertility management sustainable crop production and microbial signaling networks Volume I is a collection of research findings that invites readers to examine the application of microbes in reinstating degraded ecosystems and also in establishing sustainable croplands Highly readable entries attempt to close the knowledge gap between soil microbial associations and sustainable agriculture An increase in the global population with changing climate is leading to environments of various abiotic and biotic stresses for agricultural crops It therefore becomes important to identify the techniques to improve soil fertility and function using different microbial groups such as actinobacteria microalgae fluorescent pseudomonads and cyanobacterial systems These are examined in this volume in greater detail This work is a significant contribution to research in this increasingly important discipline and will appeal to researchers in microbiology agriculture environmental sciences and soil and crop sciences **Methods in Cyanobacterial** Research Shailendra Pratap Singh, Rajeshwar P. Sinha, Donat-P. Häder, 2024-06-14 This laboratory reference compiles the essential protocols used in cyanobacterial research Cyanobacteria is a model system for biofuel production and sequestration of carbon dioxide to tackle global climate change due to increasing levels of greenhouse gases Topics range from identification and growth parameters to biomolecule estimation and isolation It also covers genome analysis and bioengineering of cyanobacteria for novel products Key Features Provides step by step procedures and troubleshooting tips

Covers identification growth parameters and pigment estimation methodologies Describes isolation characterization and purification of microcystin phycobiliproteins and scytonemin from cyanobacteria Discusses genomics proteomics and bioengineering of cyanobacteria from novel products Explains sample preparation and visualization protocol for electron microscopy based analysis of cyanobacteria This collection is useful to students and researchers in life sciences It is also meant for industry experts who are involved in the production of biofuels biofertilizers other value added products and carbon sequestration using cyanobacteria Management of Biological Nitrogen Fixation for the Development of More Productive and Sustainable Agricultural Systems J.K. Ladha, M.B. Peoples, 1995-09-30 Reprinted from Plant and Soil v 174 nos 1 2 1995 this volume is devoted to discussions on the role of biological nitrogen fixation BNF in agricultural sustainability Papers presented on BNF in crop forage and tree legumes are augmented with discussion of integrated farming systems involving BNF soil and N management and recycling of legume residues BNF by non legumes is discussed and attempts to transform cereals into nodulating plants are critically reviewed Also described are advances in the development of new methodologies to understand symbiotic interactions and to assess N 2 fixation in the field means of enhancing BNF through plant and soil management breeding and selection problems encountered in exploiting BNF under farmers field conditions and promising approaches to improve BNF exploitation Lacks a subject index Annotation copyright by Book News Inc **Phosphorus in Environmental Technology** E. Valsami-Jones, 2004-05-31 Phosphorus in Environmental Portland OR Technology Principles and Applications provides a definitive and detailed presentation of state of the art knowledge on the environmental behaviour of phosphorus and its applications to the treatment of waters and soils Special attention is given to phosphorus removal for recovery technologies a concept that has emerged over the past 5 6 years The book features an all encompassing approach the fundamental science of phosphorus chemistry geochemistry mineralogy biology key aspects of its environmental behaviour and mobility industrial applications treatment removal recovery and the principles behind such applications novel biotechnologies and importantly it also addresses socio economic issues which often influence implementation and the ultimate success of any new technology A detailed subject index helps the reader to find their way through the different scientific and technological aspects covered making it an invaluable reference work for students professionals and consultants dealing with phosphorus related environmental technologies State of the art knowledge on the behaviour of phosphorus and its applications to environmental science and technology Covers all aspects of phosphorus in the environment engineered and biological systems an interdisciplinary text Fertility of Soils Christian J.M.G. Pieri, 2012-12-06 Can a continuous growth of agriculture be achieved in the sub Sahara region without inducing irreversible damage to the ecosystem Until now doubts have been expressed as to the actual capacity of the soils to sustain a desirable increase of production which can match the requirements of a fast growing population Thirty years of investigation and a renewed comprehensive interpretation of research data on soil fertility show that a sustainable agriculture growth could be a

practical possibility in a savannah region Biological Nitrogen Fixation for Sustainable Agriculture J.K. Ladha, T. George, C. Bohlool, 2013-03-09 Chemical fertilizers have had a significant impact on food production in the recent past and are today an indispensable part of modern agriculture On the other hand the oil crisis of the 1970s and the current Middle East problems are constant reminders of the vulnerability of our fossil fuel dependent agriculture. There are vast areas of the developing world where N fertilizers are neither available nor affordable and in most of these countries balance of payment problems have resulted in the removal of N fertilizer subsidies The external costs of environmental degradation and human health far exceed economic concerns Input efficiency of N fertilizer is one of the lowest and in turn contributes substantially to environmental pollution Nitrate in ground and surface waters and the threat to the stability of the ozone layer from gaseous oxides of nitrogen are major health and environmental concerns The removal of large quantities of crop produce from the land also depletes soil of its native N reserves Another concern is the decline in crop yields under continuous use of N fertilizers These economic environmental and production considerations dictate that biological alternatives which can augment and in some cases replace N fertilizers must be exploited Long term sustainability of agricultural systems must rely on the use and effective management of internal resources. The process of biological nitrogen fixation offers and economically attractive and ecologically sound means of reducing external nitrogen input and improving the quality and quantity of internal resources In this book we outline sustainability issues that dictate an increased use of biological nitrogen fixation and the constraints on its optimal use in agriculture

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