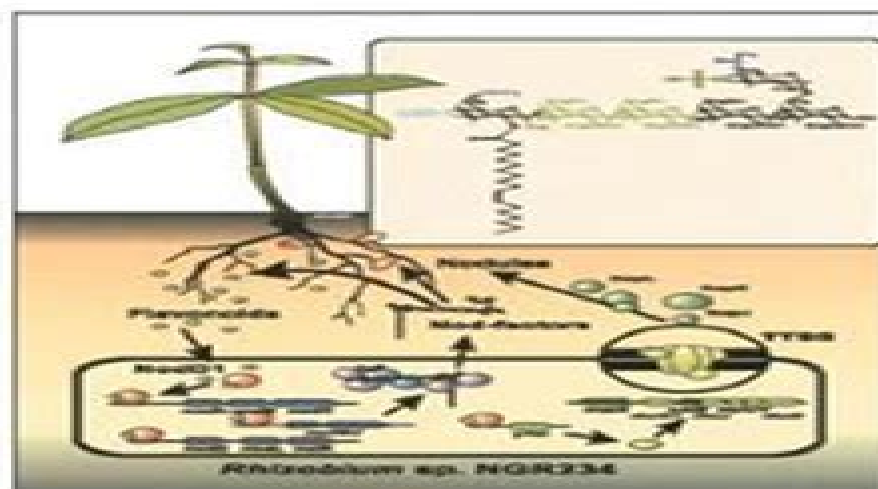


DEVELOPMENTS IN PLANT AND SOIL SCIENCES

Maximising the Use of Biological Nitrogen Fixation in Agriculture

Report of an FAO/IAEA Technical Expert Meeting
held in Rome, 13-15 March 2001

Gudni Hardarson
William J. Broughton
editors



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Maximising The Use Of Biological Nitrogen Fixation In Agriculture

**Michael J. Dilworth, Euan K.
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Maximising The Use Of Biological Nitrogen Fixation In Agriculture:

Maximising the Use of Biological Nitrogen Fixation in Agriculture Gudni G. Hardarson, William J. Broughton, 2003-07-31
Incorporating contributions from microbiologists molecular biologists plant breeders and soil scientists this volume reports the results and recommendations of an FAO IAEA meeting of twelve experts on biological nitrogen fixation This volume will be invaluable to scientists working on nitrogen fixation soil microbiology agronomy and crop production as well as farm advisers and extension specialists Maximising the Use of Biological Nitrogen Fixation in Agriculture is unique in that it reviews the latest thinking on various aspects of biological nitrogen fixation technology and applications reviews the possibilities in enhancing nitrogen fixation in various cropping systems shows ways how biological nitrogen fixation can be used to enhance crop production considers the applicability of these technologies to small farmers in developing countries

Maximizing Nitrogen Fixation in Legumes as a Tool for Sustainable Agriculture Intensification Pilar

Irisarri, Juan Imperial, Fernando Alfredo Lattanzi, Jorge Monza, Jose Palacios, Juan Sanjuan, Julie Grossman, 2022-01-17

Special Issue: Maximising the Use of Biological Nitrogen Fixation in Agriculture Food and Agriculture

Organization, International Atomic Energy Agency, 2003

Soil Science: Agricultural and Environmental Prospectives

Khalid Rehman Hakeem, Javaid Akhtar, Muhammad Sabir, 2016-08-01 Soil is the most important natural non renewable resource developed over a longer period of time due to weathering of rocks and subsequently enrichment of organic matter Soil provides habitat for numerous microorganisms and serves as a natural medium for plant growth thereby providing the plants with anchorage nutrients and water to sustain the growth Soil also serves as a universal sink for all types of pollutants purifies ground water and is a major reserve of carbon in the universe The role of soils to provide ecosystem services maintenance of environmental human health and ensuring the food security makes it as the most important and basic natural resource Soil Science helps us to elaborate and understand how the soils provide all these services Soil Science also provides us the basic knowledge dealing with the origin of the soil parent material weathering of parent material and the formation of soils morphological physico chemical and biological features of soils classification of soils and role of soils in the provision and maintenance of ecosystem services food security and environmental quality This book encompasses the various processes functions and behaviour of soils very comprehensively to acquaint the students of soil plant and environmental sciences about their role to perform different agricultural and environmental functions Biological Nitrogen Fixation and Sustainability of Tropical Agriculture African Association for Biological Nitrogen Fixation. Conference, 1992-10-27 Biological nitrogen fixation in tropical agrosystems twenty years of biological nitrogen fixation research in Africa Sustainable agriculture definition and measurement Biological nitrogen fixation systems in tropical ecosystems an overview A protocol for screening legumes as soil improving crops The sustenance of tropical agriculture with multipurpose azolla Facteurs pedoclimatiques limitant la lixation biologique l azole Response of some tropical nitrogen fixing woody legumes to drought

and inoculation with mycorrhiza Improvement to the Phaseolus Rhizobium symbiosis with particular reference to the Caribbean region Effect of pest management systems on biological nitrogen fixation Agronomic evaluation of a rock phosphate as a phosphorus source for Leucaena leucocephala grown on an utisol Nodulation of soybean grown under field conditions and inoculated with Bradyrhizobium japonicum strains Effect of fertilization and Rhizobium inoculation on the growth of Leucaena and Gliricidia on an alfisol in south western Nigeria Early growth and nodulation in Leucaena and Gliricidia and the effects of pruning on biomass productivity Comparative study on the growth and productivity of Sesbania and Leucaena in the Central Plateau region Rwanda Supernodulation and non nodulation mutants of soybean Genetically improved rhizobia and their use in agriculture Sustainability of nitrogen fixing cropping systems Nodulation and nitrogen fixation and transfer in a cowpea rice cropping system The role of legumes in sustaining soil productivity and controlling soil erosion Fitting soil improving legumes into inland valley rice based cropping systems in West Africa Herbage yield and soil fertility restoration potential of some tropical forage legumes Maximising the Use of Biological Nitrogen Fixation in Agriculture, 2003 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 N₂ 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 Portland OR

Probiotics and Plant Health Vivek Kumar, Manoj Kumar, Shivesh Sharma, Ram Prasad, 2017-06-30 This book primarily focuses on microbial colonization its role in plant growth and nutrient cycling mycorrhizae and providing an overview of phytospheric microorganisms in sustainable crop systems Despite the advances made in the study of plant microbe synergism the relation between microbes and plant health in the context of food security soil nutrient management human and plant health is still largely unexplored Addressing that gap the book presents reviews and original research articles that highlight the latest discoveries in plant probiotics their specificity diversity and function Additional sections addressing nutrient management human health and plant microbiome management to improve plant productivity round out the coverage

Advances in Agri-Food Biotechnology Tilak Raj Sharma, Rupesh Deshmukh, Humira Sonah, 2020-08-31 This book presents biotechnological advances and approaches to improving the nutritional value of agri foods The respective chapters explore how biotechnology is being used to enhance food production nutritional quality food safety and food packaging and

to address postharvest issues Written and prepared by eminent scientists working in the field of food biotechnology the book offers authentic reliable and detailed information on technological advances fundamental principles and the applications of recent innovations Accordingly it offers a valuable guide for researchers as well as undergraduate and graduate students in the fields of biotechnology agriculture and food technology **World Soil Resources and Food Security** Rattan Lal,B.A. Stewart,2016-04-19 Soil The Basis of All Terrestrial LifeAncient civilizations and cultures Mayan Aztec Mesopotamian Indus and Yangtze were built on good soils surviving only as long as soils had the capacity to support them In the twenty first century productive soil is still the engine of economic development and essential to human well being The quality of

Microbiota and Biofertilizers Khalid Rehman Hakeem,Gowhar Hamid Dar,Mohammad Aneesul Mehmood,Rouf Ahmad Bhat,2020-12-07 An increasing population has put tremendous pressure on agricultural productivity to fulfill the demands of human consumption Numerous agricultural activities and techniques have been developed to raise annual crop production globally While agriculture has succeeded in enhancing the yearly crop productivity this achievement is at the cost of environmental degradation by applying synthetic persistent substances such as industrial fertilizers pesticides herbicides etc Chemical fertilizers are nearly as destructive as they are productive causing monocultures and consequences associated with elimination of diversity nutrient pollution as evidenced by algae blooms eutrophication water quality issues lower oxygen levels and dangers to fish stocks Therefore the scientific approach to maintain sustainable fertility in soil and plants is to switch over to biofertilisers Biofertilisers are compounds of organic matter that are applied to crops for growth and health Their constituent micro organisms interact in an ecofriendly manner with the soil root and seeds of plants promoting the growth of micro flora that enhances soil fertility They are known to play a number of vital roles in soil fertility crop productivity and production in agriculture Application of biofertilisers results in increased mineral and water uptake root development vegetative growth and nitrogen fixation They liberate growth promoting substances and vitamins and help to maintain soil fertility They act as antagonists and play a pivotal role in neutralising the soil borne plant pathogens thereby assisting in the bio control of diseases Application of biofertilisers in lieu of synthetic fertilizers could be the promising technique to raise agricultural productivity without degrading the environmental quality The present book focuses on the latest research approaches and updates from the microbiota ecosystem and their applications in agriculture industry It also highlights the great potential and possible future of action of microbiota in the development of sustainable agricultural systems *Biofortification in Cereals* Rupesh Deshmukh,Altafhusain Nadaf,Waquar Akhter Ansari,Kashmir Singh,Humira Sonah,2023-02-14 The book addresses recent advances in biofortification using different approaches like foliar fertilizer plant breeding and genetic engineering as well as its utilization for improvement of nutritional quality of cereals The content compiled is contributed by the renowned scientists actively working in the area of the cereal biofortification This is an authentic reliable and exhaustive compilation bringing together the technological advancements fundamental principles and

applicability of scientific innovations in biofortification It also discusses policies and regulations for the implication of various strategies It is useful reading material for researchers and students in the field

Translating Physiological Tools to Augment Crop Breeding Mamrutha Harohalli Masthigowda, Krishnappa Gopalareddy, Rinki Khobra, Gyanendra Singh, Gyanendra Pratap Singh, 2023-04-19

This book covers different physiological processes tools and their application in crop breeding Each chapter emphasizes on a specific trait physiological process and its importance in crop their phenotyping information and how best it can be employed for crop improvement by projecting on success stories in different crops It covers wide range of physiological topics including advances in field phenotyping role of endophytic fungi metabolomics application of stable isotopes high throughput phenomics transpiration efficiency root phenotyping and root exudates for improved resource use efficiency cuticular wax and its application advances in photosynthetic studies leaf spectral reflectance and physiological breeding in hardy crops like millets This book also covers the futuristic research areas like artificial intelligence and machine learning This contributed volume compiles all application parts of physiological tools along with their advanced research in these areas which is very much need of the hour for both academics and researchers for ready reference This book will be of interest to teachers researchers climate change scientists capacity builders and policy makers Also the book serves as additional reading material for undergraduate and graduate students of agriculture physiology botany ecology and environmental sciences National and international agricultural scientists will also find this a useful resource

Innovations as Key to the Green Revolution in Africa Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina, Job Maguta Kihara, 2011-08-30 Africa can achieve self sufficiency in food production through adoption of innovations in the agriculture sector Numerous soil fertility and crop production technologies have been generated through research however wide adoption has been low African farmers need better technologies more sustainable practices and fertilizers to improve and sustain their crop productivity and to prevent further degradation of agricultural lands The agricultural sector also needs to be supported by functional institutions and policies that will be able to respond to emerging challenges of globalization and climate change

Wheat and Barley Grain Biofortification Om Prakash Gupta, Vanita Pandey, Sneha Narwal, Pradeep Sharma, Sewa Ram, Gyanendra Pratap Singh, 2020-05-19

Wheat and Barley Grain Biofortification addresses topics associated with the alleviation of malnutrition in globally diverse populations via wheat and barley biofortification The book synthesizes the current trends of malnutrition across the globe the need for wheat and barley nutritional enhancement and how agronomic microbial and molecular understanding of biofortification can help in devising significant approaches and strategies In addition it includes discussions on potential genetic variability available and their efficient utilization in wheat and barley for molecular breeding for nutrients challenges and opportunities for bioavailability and technical advancement for analysis of bioavailability Addresses the need for wheat and barley biofortification to address global nutrition demands Places emphasis on the current agronomic and molecular understanding of biofortification

Discusses the potential utilization of genetic variability Highlights the economics of biofortification over fortification technology

Agricultural Biotechnology: Latest Research and Trends Dinesh Kumar Srivastava,Ajay Kumar Thakur,Pankaj Kumar,2022-01-08 This book caters to the need of researchers working in the ever evolving field of agricultural biotechnology It discusses and provides in depth information about latest advancements happening in this field The book discusses evolution of plant tissue culture techniques development of doubled haploids technology role of recombinant DNA technology in crop improvement It also provides an insight into the global status of genetically modified crops use of RNAi technology and mi RNAs in plant improvement Chapters are also dedicated for different branches of omics science including genomics bioinformatics proteomics metabolomics and phenomics along with the use of molecular markers in tagging and mapping of various genes QTLs of agronomic importance This book also covers the role of enzymes and microbes in agriculture in productivity enhancement It is of interest to teachers researchers of biotechnology and agriculture scientists Also the book serves as additional reading material for undergraduate and postgraduate students of biotechnology agriculture horticulture forestry ecology soil science and environmental sciences National and international biotechnologists and agricultural scientists will also find this to be a useful read

Soil-Specific Farming Rattan Lal,B.A. Stewart,2015-08-20 Faced with challenges of resource scarcity and environmental degradation it is important to adopt innovative farming systems that maximize resource efficiency while protecting the environment Soil Specific Farming Precision Agriculture focuses on principles and applications of soil specific farming providing information on rapidly evolving agri

Rainfed Farming Systems Philip Tow,Ian Cooper,Ian Partridge,Colin Birch,2011-09-16 While a good grasp of the many separate aspects of agriculture is important it is equally essential for all those involved in agriculture to understand the functioning of the farming system as a whole and how it can be best managed It is necessary to re assess and understand rain fed farming systems around the world and to find ways to improve the selection design and operation of such systems for long term productivity profitability and sustainability The components of the system must operate together efficiently yet many of the relationships and interactions are not clearly understood Appreciation of these matters and how they are affected by external influences or inputs are important for decision making and for achieving desirable outcomes for the farm as a whole This book analyses common rain fed farming systems and defines the principles and practices important to their effective functioning and management

Nitrogen-fixing Leguminous Symbioses Michael J. Dilworth,Euan K. James,Janet I. Sprent,William E. Newton,2008-01-18 Nodules produced on legume roots by root nodule bacteria provide the major nitrogenous input into natural and agricultural systems worldwide This book provides an in depth and up to the minute analysis of what is known about this symbiosis its origins the process of nodule formation and development and the biochemistry and genetics of nodular nitrogen fixation It also reviews the physiology of the root nodule bacteria themselves their ecology in both natural and agricultural systems and how we can introduce new legumes along with the bacteria they

require This book is recommended for scientists working with root nodule bacteria or host legumes agronomists forestry scientists and soil scientists Crop Biofortification Adnan Noor Shah,Sajid Fiaz,Muhammad Aslam,Javed Iqbal,Abdul Qayyum,2025-03-10 Develop more nutritious crops to aid in the fight against world hunger with this timely volume One in nine people worldwide suffer from hunger or food scarcity Massively increasing food production is one of the most urgent scientific projects in the modern world particularly as a changing climate places increasing pressure on the global food supply and on sustainable food production processes Biofortification is a process in which plant breeding improved agronomic practices and or modern biotechnology are employed to increase nutrient density of crops without sacrificing any of their desirable characteristics It s an essential tool in the global fight against hunger Crop Biofortification offers an up to the minute overview of this essential subject and its recent advances It covers all the latest methodologies and techniques deployed in biofortification as well as surveying plant responses to genetically induced biofortification and the effect of climate change on biofortified crops Designed to allow for the application of these techniques at the field level it s a significant contribution towards the search for a sustainable global food supply Crop Biofortification readers will also find Presentation of recent advances in omics particularly metabolomics which can decipher potential changes in plants caused by biofortification Detailed discussion of methods for increasing the nutritional content of edible plants to address specific nutritional deficiencies Contributions towards a road map for increasing global food production by 70% before the year 2050 Crop Biofortification is ideal for researchers policymakers and professionals interested in the potential biofortification of crop plants as well as graduate and advanced undergraduate students in agronomy plant physiology plant breeding and genetics agricultural biotechnology and related fields

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