

Azospirillum VI and Related Microorganisms

Genetics - Physiology - Ecology

Edited by Istvån Fendrik Maddalena del Gallo Jos Vanderleyden Miklos de Zamaroczy

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Istvan Fendrik, Maddalena Del Gallo, Jos Vanderleyden, Miklos, de Zamaroczy

Bacteria in Agrobiology: Plant Growth Responses Dinesh K. Maheshwari, 2011-06-23 The future of agriculture strongly depends on our ability to enhance productivity without sacrificing long term production potential An ecologically and economically sustainable strategy is the application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria PGPB The use of these bio resources for the enhancement of crop productivity is gaining worldwide importance Bacteria in Agrobiology Plant Growth Responses describes the application of various bacteria in plant growth promotion and protection including symbiotic free living rhizospheric endophytic methylotrophic diazotrophic and Plasticity in Plant-Growth-Promoting and Phytopathogenic Bacteria Elena I. Katsy, 2014-01-30 filamentous species Plasticity in Plant Growth Promoting and Phytopathogenic Bacteria brings together the expertise of a panel of researchers from around the world to provide comprehensive up to date reviews on the most interesting aspects of genomic and phenotypic plasticity in plant beneficial and phytopathogenic bacteria. The book covers various topics including common and specific features in the genomes of symbiotic plant growth promoting and phytopathogenic bacteria regulation of conjugative plasmid transfer in rhizobia genetic and phenotypic variability in plant beneficial pseudomonads and azospirilla genomic fluxes in phytopathogenic xanthomonads and pseudomonads genome plasticity in obligate parasitic Phytoplasmas comparative genomics of plant growth promoting and phytopathogenic Herbaspirillum species horizontal gene transfer in planta and microevolution of plant associated bacteria in the phytosphere Plasticity in Plant Growth Promoting and Phytopathogenic Bacteria is recommended for all microbiology and plant biology laboratories *Nitroaen Fixation:* Fundamentals and Applications Igor A. Tikhonovich, Nikolai A. Provorov, Vassily I. Romanov, William E. Newton, 2012-12-06 Nitrogen fixation research is presented as a rapidly developing synergistic area of modern science using the methods of and accumulating data from many fundamental branches of biology and chemistry These include catalytic mechanisms protein structure and function molecular organization of genes and the regulation of their activities biochemistry of plants and microorganisms the signalling and surface interactions between organisms microbial taxonomy and evolution formal and population genetics and ecology The relationships between biological nitrogen fixation research and different branches of applied biology are addressed and analyzed such as the monitoring of genetically engineered microorganisms selection of plant associated microbes plant breeding increasing the protein content of crops providing ecologically safe food production and diminishing the chemical pollution of the environment Immediate impacts and long term prospects for nitrogen fixation research are presented both fundamentals and applications **Azospirillum VI and Related Microorganisms** Istvan Fendrik, Maddalena Del Gallo, Jos Vanderleyden, Miklos, de Zamaroczy, 2013-06-29 Azospirillum is a plant growth promoting rhizobacterium used for inoculation of cereal and forage crops The book covers its physiology ecology biochemistry and molecular biology The most advanced molecular techniques to understand the regulatory mechanisms of nitrogen fixation

and ammonia assimilation as well as the basis of phytohormone production are included In particular the identification of novel types of promoters specific regulatory circuits and new regulatory proteins is described New insights in the plant growth promoting role of the bacteria through the analysis of their interactions with the plant are presented Also discussed are field applications allowing the evaluation of the physiological and agronomic involvement of Azospirillum inoculations

Bacteria in Agrobiology: Plant Probiotics Dinesh K. Maheshwari, 2012-04-23 The future of agriculture strongly depends

on our ability to enhance productivity without sacrificing long term production potential An ecologically and economically sustainable strategy is the application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria PGPB The use of these bio resources for the enhancement of crop productivity is gaining worldwide importance Bacteria in Agrobiology Plant Probiotics discusses the current trends and future prospects of beneficial microorganisms acting as Probiotics Topics include the application for the aboveground fitness of plants in mountain ecosystems in tropical and Mediterranean forests and in muga sericulture Further aspects are Arabidopsis as a model system for the diversity and complexity of plant responses plant parasitic nematodes nitrogen fixation and phosphorus nutrition Associative and Endophytic Nitrogen-fixing Bacteria and Cyanobacterial Associations Claudine Elmerich, William E. Newton, 2007-05-19 Associative and Endophytic Nitrogen fixing Bacteria and Cyanobacterial Associations This book is part of the seven volume series that was launched a few years ago with the ambitious objectives of reviewing the field of nitrogen fixation from its earliest beginnings through the millennium change and of consolidating the relevant information from fundamental to agricultural and environmental aspects all in one place Volume 5 covers the biology of bacteria that associate with n leguminous plants The subject matter includes a wide range of associations it covers the bacterial species that associate either with the surface or within the tissues of grasses often referred as plant growth promoting rhizobacteria and also the symbiotic associations that cyanobacteria form with fungi algae and both lower and higher plants This volume does not deal with the Frankia actinorhizal plant associations which is the topic of Volume 6 The book is divided in 13 chapters each of which is the work of well known scientists in the field Just like in the other volumes of this series the first chapter is th an historical perspective It describes how as early as the end of the 19 century it was shown that plant exudation favoured the proliferation of soil bacteria in the rhizosphere and how the first nitrogen fixing bacteria including cyanobacteria were isolated The chapter covers the landmarks and scientific concepts that arose from more than one century of research in this Current Microbiological Research in Africa Akebe Luther King Abia, Guy R. Lanza, 2020-02-04 Scientific output in area low and middle income countries is greatly challenged by numerous factors This is particularly pronounced in sub Saharan African countries despite the continent being the world's second largest and second most populous continent currently undergoing rapid economic growth Financial constraints and unclear areas of focus when funding is available are among the

limiting factors with the consequence being the development of inadequate policies especially those relating to

environmental protection and conservation This 13 chapter book is a unique piece in the field of microbiology designed to stimulate some research areas in Africa by illustrating interesting and informative examples of the current applied research agenda in environmental microbiology in selected countries within the continent With authors from the North South East and West of Africa the book touches diverse applied methods and approaches to meet the pragmatic needs faced by environmental microbiologists in Africa Also included are topics on viruses bacteria including cyanobacteria and protozoa and their importance in disease Sustainable agriculture and aquaculture and eco friendly oil and hydrocarbon bioremediation and degradation approaches are highlighted Microbial involvement in different common indoor e g household kitchens latrines and hospitals and outdoor settings including air soil and water habitats and their resistance to commonly used antibiotics are described Hopefully the work presented here will stimulate the need for increasing modern training and funding initiatives to prepare African microbiologists to meet the challenges they face in African universities and research laboratories **Environmental Biotechnology** Marian Petre, 2013-02-07 Taking into consideration the outstanding importance of studying and applying the biological means to remove or mitigate the harmful effects of global pollution on the natural environment as direct consequences of quantitative expansion and qualitative diversification of persistent and hazardous contaminants the present book provides useful information regarding New Approaches and Prospective Applications in Environmental Biotechnology This volume contains twelve chapters divided in the following three parts biotechnology for conversion of organic wastes biodegradation of hazardous contaminants and finally biotechnological procedures for environmental protection Each chapter provides detailed information regarding scientific experiments that were carried out in different parts of the world to test different procedures and methods designed to remove or mitigate the impact of hazardous pollutants on environment The book is addressed to researchers and students with specialties in biotechnology bioengineering ecotoxicology environmental engineering and all those readers who are interested to improve their knowledge in order to keep the Earth healthy Phytohormones in Soils Microbial Production & Function Jr., 2020-01-29 Details the various physiological responses in plants caused by microbially derived phytohormones examining the microbial synthesis of the five primary classes of plant hormones Exploring novel methods for improving symbiotic associations vital for plant growth and development Bacteria in Agrobiology: Plant Nutrient Management Dinesh K. Maheshwari, 2011-08-17 The future of agriculture strongly depends on our ability to enhance productivity without sacrificing long term production potential An ecologically and economically sustainable strategy is the application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria PGPB The use of these bio resources for the enhancement of crop productivity is gaining worldwide importance Bacteria in Agrobiology Plant Nutrient Management focus on the management of plant nutrient to support plant growth and development The topics treated in this book include mechanisms of plant growth promoting rhizobacteria zinc and phosphate solubilizing microorganisms sulfur oxidizing

bacteria ACC deaminase siderophores phytohormones quorum sensing biofilms antibiotics volatiles denitrification and Azospirillum IV Walter Klingmüller, 2012-12-06 th th On June 17 and 18 1987 the integrated nutrient management fourth workshop on Azospi rillum Genetics Physiology Ecology took place at the Uni ver sity of Bayreuth West Germany organized by the Genetics depart ment There were about 80 participants who came from German research institutions from other European countries from Is rael Egypt India North Vietnam and North and South America The former workshops had also taken place in Bayreuth in 1981 1983 and 1985 hence the organizers could draw on the experience obtained at these earlier workshops Azospirilla have during the past 15 years found an ever increasing scientific interest because first these soil bacte ria carry the genetic information for binding molecular nitrogen from the air and second they live in close vicinity to the roots of grain crops and forage grasses By exploitation of these two properties it is hoped to develop inoculation procedures which can be used in nitrogen deficient soils **Novel Approaches for Bioremediation of Organic Pollution** Raffi Fass, Yehuda Flashner, Shaul Reuveny, 2012-12-06 Proceedings of the 42nd OHOLO Conference held in Eilat Israel May Bacteria in Agrobiology: Crop Ecosystems Dinesh K. Maheshwari, 2011-04-19 The future of agriculture strongly 3 7 1998 depends on our ability to enhance productivity without sacrificing long term production potential An ecologically and economically sustainable strategy is the application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria PGPB The use of these bio resources for the enhancement of crop productivity is gaining worldwide importance Bacteria in Agrobiology Crop Ecosystems describes the beneficial role of plant growth promoting bacteria with special emphasis on oil yielding crops cereals fruits and vegetables Chapters present studies on various aspects of bacteria plant interactions soil borne and seed borne diseases associated with food crops such as rice sesame peanuts and horticultural crops Further reviews describe technologies to produce inoculants the biocontrol of post harvest pathogens as a suitable alternative to agrochemicals and the restoration of degraded soils Bergey's Manual® of Systematic Bacteriology James T. Staley, Don J. Brenner, Noel R. Krieg, 2006-07-25 Includes a description of the Alpha Beta Delta and Epsilonproteabacteria 1256 pages 512 figures and 371 tables This large taxa include many well known medically and environmentally important groups Especially notable are Acetobacter Agrobacterium Aguospirillum Brucella Burkholderia Caulobacter Desulfovibrio Gluconobacter Hyphomicrobium Leptothrix Myxococcus Neisseria Paracoccus Propionibacter Rhizobium Rickettsia Sphingomonas Thiobacillus Xanthobacter and 268 additional genera **Prospects and Applications** for Plant-Associated Microbes, A laboratory manual Seppo Sorvari, Anna Maria Pirttilä, 2014-12-15 Research on the microbial colonization of the aerial and subterranean tissues of plants has shown an extensive scale of interactions between the hosts and a range of microbes including bacteria and fungi Intercellular spaces vascular systems and even single cells can be inhabited by these endophytic microbes Of the bacterial endophytes only a small percentage is harmful to the plant most are neutral opportunistic or beneficial These plant based bacteria can have various important functions throughout the

life cycle of the plant some promote plant growth and development others protect the plant from diseases This ability to be able to protect plants from diseases has catalyzed numerous laboratories to search for new bacteria that could be utilized instead of the traditional plant protective agents Because two or more interacting organisms are involved research and the eventual application of suitable bio controlling microbes are challenging and often require specific skills and equipment The purpose of this book is to provide a comprehensive review for those who are interested in the research and biotechnological applications of plant associated bacteria It also provides a compilation of current work conducted on plant bacteria 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 **Nitrogen Fixation with Non-Legumes** F.A. Skinner, Robert M. Boddey, I. Fendrik, 2012-12-06 Proceedings of the 4th International Symposium on Nitrogen Fixation with Non Legumes Rio de Janeiro Brazil August 23 28 1987 **Advances in Soil Science** ,2012-12-06 Soil is formed from the physical and chemical weathering of rocks processes described historically becau se they involve eons of time by glaciation and by wind and water transport of soil materials which are later deposited in deltas and loessial planes Soil undergoes further transformations over time and provides a habitat for biological life and a base for the development of civilizations Soil is dynamic always changing as a result of the forces of nature and particularly by the influences of man Soil has been studied as long as history has been documented Numerous references to soil are found in historical writings such as Aristotle 384 322 Be Theophrastus 372 286 Be Cato the E1der 234 149 Be and Varro 116 27 Be Some of the earliest historical references have to do with the erosional

forces of wind and water The study of soils today has taken on increased importance because a rapidly expanding population is placing demands never before experienced on the soil This has led to an increase in land degradation Land degradation is one of the most severe problems facing mankind Volume 11 of Advances in Soil Science was devoted entirely to this critical area of soil science This series Advances in Soil Science was established to provide a forum for leading scientists to analyze and summarize the available scientific information on a subject assessing its importance and identifying additional research Biological Nitrogen Fixation Gary S. Stacey, Robert H. Burris, Harold J. Evans, 1992-04-30 Phylogenetic classification of nitrogen fixing organisms Physiology of nitrogen fixation in free living heterotrophs Nitrogen fixation by photosynthetic bacteria Nitrogen fixation in cyanobacteria Nitrogen fixation by methanogenic bacteria Associative nitrogen fixing bacteria Actinorhizal symbioses Ecology of bradyrhizobium and rhizobium The rhizobium infection process Physiology of nitrogen fixing legume nodules compartments and functions Hydrogen cycling in symbiotic bacteria Evolution of nitrogen fixing symbioses The rhizobium symbiosis of the nonlegume parasponia Genetic analysis of rhizobium nodulation Nodulins in root nodule development Plant genetics of symbiotic nitrogen fixation Molecular genetics of bradyrhizobium symbioses The enzymology of molybdenum dependent nitrogen fixation Alternative nitrogen fixation systems Biochemical genetics of nitrogenase Regulation of nitrogen fixation genes in free living and symbiotic bacteria Isolated iron molybdenum cofactor of **Advances in Microbiology** P.C. Trivedi, 2003-06-01 Microbiologist have made significant contributions to nitrogenase basic biological sciences as well as in the applied areas of public health and medical sciences agriculture industry and environmental sciences The most dramatic current development in applied microbiology is due to development of genetic engineering and recombinant DNA technology The book Advances in Microbiology provides a comprehensive and critical review of the work done on different areas of microbiology including agriculture industry medical science bioremediation etc The book contains 24 chapters Chapters cover information on the status of microbial diversity application of biosensors Azolla as biofertilizer Frank a nitrogen fixing actinomycetes extraction of metals from ores using bacteria alkaliphiles citirc acid fermentation biodiversity of cyanobacteria microbial degradation of xenobiotics etc Aspects covering biotechnological applications of microbes for improved plant productivity and new approaches for development of vaccines have been specially included to project their role and use in the twenty first century Comprehensive account of microbes in the management of soil borne diseases and plant parasitic nematodes throw light on the importance of microbes in the management of plant pests This book will be useful to researchers teachers and students of Microbiology Botany Zoology and Agriculture

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