

The Rhizobiaceae

molecular biology of model plant-associated bacteria



Editors

Herman P. Spaink - Adam Kondorosi - Paul J.J. Hooykaas

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Rhizobiaceae Molecular Biology Of Model Plant Associated Bacteria

Samuel S. Gnanamanickam



Rhizobiaceae Molecular Biology Of Model Plant Associated Bacteria:

The Rhizobiaceae Herman P. Spaink, Adam Kondorosi, Paul J.J. Hooykaas, 1998-07-31 Comprises 26 contributions that provide an overview of the present molecular biological knowledge about the Rhizobiaceae a family of soil bacteria that interact with and affect the development of plants In addition to covering the various bacteria and their activities the book also discusses the scientific principles that have been discovered as a result of study in the discipline Topics include outer membrane proteins alternative membrane lipids the production of exopolysaccharides opines and opine like molecules involved in plant Rhizobiaceae interactions conjugal plasmids and their transfer the use of *Agrobacterium* for plant genetic engineering functions of rhizobial nodulation genes and the agronomic aspects of legume symbiotic nitrogen fixation Intended for professionals in chemistry biochemistry genetics and biology or as a textbook for a second or third year graduate course in microbiology or plant microbe interactions Annotation copyrighted by Book News Inc Portland OR

Plant-Associated Bacteria Samuel S. Gnanamanickam, 2007-09-29 The idea of developing a comprehensive volume on PLANT ASSOCIATED BACTERIA was born in my mind about 5 years back I decided therefore that the proposed volume on Plant Associated Bacteria will be a complete volume on plant bacteriology There are several books on symbiotic and beneficial bacteria There are also books and volumes on plant pathogenic bacteria In recent years the plant growth promoting rhizobacteria PGPR has emerged as an important group which has significant applications to crop production and biological disease control There is a vital need for a comprehensive volume on all plant associated bacteria that also includes epiphytic and endophytic bacteria In my mind the proposal appeared worthwhile and timely In the present era of genomics there has been an enhanced interest in the genomics of the plant associated bacteria Example the Plant Associated Microbe Genome Initiative American Phytopathological Society www.apsnet.org media page top Traditional methods of identification of bacteria have been replaced by molecular methods for diagnostics and their phylogeny This volume tries to carefully document both the traditional and recent methods To achieve this the contributors have been chosen from among the best experts to provide updated information for a reader who has specific expectations in a volume of this nature **The Produce Contamination Problem** Karl Matthews, Deepti Salvi, 2023-06-11 The Produce Contamination Problem Causes and Solutions Third Edition is a fully revised resource on preventative controls at all stages of handling including the use of new technologies for the inactivation of pathogens in both water and commodity The book begins with an analysis of the contamination problem to identify novel research designed to understand the interaction of human pathogens Outbreak characteristics vulnerable to contamination are discussed along with global issues surrounding production This new edition includes updates on regulatory issues and the newest advances in technologies for the detection of pathogens whole genome sequencing and utility in test and hold programs Includes new information on sustainable production practices including agro farming Presents information on preventative controls at all stages of food handling Provides information on the use of the

latest technologies for the inactivation of pathogens in water and on commodities *Soil Microbiology and Sustainable Crop Production* Geoffrey R. Dixon, Emma L. Tilston, 2010-09-08 Soils into which crop plants root and from which they obtain essential minerals and water contain huge arrays of microbes Many have highly beneficial effects on crop growth and productivity others are pathogens causing diseases and losses to yield and quality a few microbes offer protection from these pathogenic forms and others have little or no effect These intimate and often complex inter relationships are being explored with increasing success providing exciting opportunities for increasing crop yields and quality in sustainable harmony with the populations of beneficial soil microbes and to the detriment of pathogens This book explores current knowledge for each of these aspects of soil microbiology and indicates where future progress is most likely to aid in increasing crop productivity by means which are environmentally benign and beneficial *Rhizobium Biology and Biotechnology* Alexander P. Hansen, Devendra K. Choudhary, Pawan Kumar Agrawal, Ajit Varma, 2017-09-25 This book provides in depth reviews of the role of Rhizobium in agriculture and its biotechnological applications Individual chapters explore topics such as the occurrence and distribution of Rhizobium phenotypic and molecular characteristics of Rhizobium impact of Rhizobium on other microbial communities in the rhizosphere N₂ fixation ability of Rhizobium Rhizobium and biotic stress Rhizobium mediated restoration of an ecosystem in silico analysis of the rhizobia pool further biotechnological perspectives of Rhizobium **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 **Early Signaling in the Rhizobium-legume Symbiosis** Maria Jose Soto, Jose Maria Vinardell, Luis Cardenas, Benjamin Gourion, Christian Staehelin, 2022-11-22 *Phenotypic and Genotypic Diversity of Rhizobia* Neelawan Pongslip, 2012 Rhizobia are composed of specific groups of bacteria that have the ability to induce symbiotic nitrogen fixing nodules on the roots or stems of leguminous plants Rhizobia have attracted a great attention for more than 4 decades because of their enormous agricultural and economic value in sustainable agriculture Up to the present time many legumes have been found to be nodulated by several rhizobial species in diverse taxonomic groups An assessment of rhizobial diversity provides pivotal information in understanding the horizontal gene transfer among bacterial genera and species the bacterial evolution and the symbiotic effectiveness the classification of rhizobia is becoming increasingly complex and is revised periodically because of new findings that propose new genera and new species Phenotypic and Genotypic Diversity of

Rhizobia presents the application of conventional and molecular analyses including numerical analysis enzyme patterns serological studies plasmid profile polymerase chain reaction PCR fingerprinting amplified fragment length polymorphism AFLP restriction fragment length polymorphism RFLP PCR RFLP and sequence based methods to the examination of rhizobial diversity Principles of these techniques the resolving power the advantage and the limitation of these techniques are evaluated Current taxonomy of rhizobia classifies them into 17 genera and 118 species The book explains background knowledge about rhizobia and follows this up with a broad perspective on rhizobial diversity information on characteristics specific to each group of rhizobia the relationship among rhizobial groups as well as genetic factors contributed to rhizobial diversity Contemporary methods for examination of rhizobial diversity are also suggested and discussed Readers of this e book will find updated information on key concepts in classification and taxonomy of rhizobia the categories and techniques used to examine the phenotypic and genotypic diversity of rhizobia including numerical analysis enzyme patterns serological study plasmid profile polymerase chain reaction PCR fingerprinting amplified fragment length polymorphism AFLP restriction fragment length polymorphism RFLP PCR RFLP and sequence analysis

Interactions in the Root

Environment — An Integrated Approach David S. Powlson, Geoff L. Bateman, Keith G. Davies, John L. Gaunt, Penny R. Hirsch, Peter W. Barlow, 2012-12-06 This volume contains a selection of papers presented at the Rothamsted Millennium Conference Interactions in the Root Environment an Integrated Approach The meeting brought together scientists from a range of disciplines interested in the relationship between soil biology and plant growth reflected by the contents of the volume Topics range from root development and nutrient flow plant microbe and plant plant signaling methods for studying bacterial and fungal diversity to the exploitation of rhizosphere interactions for biological control of diseases and soil remediation Authors include many internationally recognized experts in their field and the contributions range from reviews to research papers The volume presents a timely and wide ranging overview of the interactions between plants microbes and soil It should prove an indispensable resource for students and others seeking an introduction to the topic in addition to scientists already conversant with the area of research

Detection, Diagnosis and Management of Soil-borne
Phytopathogens Udai B. Singh, Ravindra Kumar, Harikesh Bahadur Singh, 2023-03-28 This edited book provides an overview of omics technologies and methods for integration across multiple omics layers used in the plant disease diagnosis and developing management strategies The book concentrates on the prevalence of soil borne disease management in various important crops with use of different strategies including host resistance and biological control etc The special focus is on the resolving practical problems encountered after the resistance development in the pathogens against several chemical pesticides Further special attention is given to the emergence of new diseases or the re emergence of old ones on several crops and on the results and problems encountered by using microbial inoculants biofumigation and other non chemical control methods This book has 18 contributory chapters from the eminent experts in the field of plant pathology microbiology

and biotechnology working on different aspects of soil borne diseases of important agricultural crops This edited volume is of interest and useful to researchers in plant pathology agriculture sciences plant genomics ecology policy makers also it is a valuable source of reference to the relevant researchers and students globally

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