

Pseudomonas

Pseudomonas (Gram-negative, aerobic, motile, and pathogenic)



Pseudomonas Model Organism Pathogen Cell Factory

Dinesh K. Maheshwari, K. Annapurna



Pseudomonas Model Organism Pathogen Cell Factory:

Pseudomonas Bernd H. A. Rehm, 2008-06-25 Concise and up to date this handy guide fills a gap in the literature by providing the essential knowledge for everyone with an interest in the topic The result is a comprehensive overview of the most important model organism in applied microbiology that covers basic biology pathology and biotechnological applications

Bacteriophages Wacław T. Szybalski, Malgorzata Łobocka, 2012 This volume the first of a two part series covers topics including historical ecological and evolutionary considerations genomics and molecular biology and interaction of phages with their hosts

Advances in PGPR Research Harikesh Bahadur Singh, Birinchi K Sarma, Chetan Keswani, 2017-11-24 Rhizosphere biology is approaching a century of investigations wherein growth promoting rhizomicroorganisms PGPR have attracted special attention for their ability to enhance productivity profitability and sustainability at a time when food security and rural livelihood are a key priority Bio inputs either directly in the form of microbes or their by products are gaining tremendous momentum and harnessing the potential of agriculturally important microorganisms could help in providing low cost and environmentally safe technologies to farmers One approach to such biologically based strategies is the use of naturally occurring products such as PGPR Written by an international team of experts this book considers new concepts and global issues in biopesticide research and evaluates the implications for sustainable productivity It is an invaluable resource for researchers in applied agricultural biotechnology microbiology and soil science and also for industry personnel in these areas

Bacterial Metabolites in Sustainable Agroecosystem Dinesh K. Maheshwari, 2015-11-10 There has been a resurgence of interest in environmental friendly sustainable and organic cultural practices that warrants high yield and quality in agricultural crops To enhance sustainable agricultural production and alleviate food scarcity spoor of majority of microorganisms especially plant growth and health promoting bacteria of eminent characteristics that allow them for exploitation in agro ecosystem Plant growth promoting rhizobacteria are the soil bacteria inhabiting around on the root surface and are directly or indirectly involved in promoting plant growth and development via production and secretion of various regulatory chemicals in the vicinity of rhizosphere Among various beneficial bacteria mediated mechanisms include direct production of phytohormones and biosurfactants experiencing quest of research and concept up gradation that can built emerging paradigm agriculture model Research on bacteria mediated phytohormones is crucially important provides key understanding of the plant growth and development Various genera including PGPR group of bacteria are potential source of plant growth regulators Application of such organism allow plants to survive under abiotic and biotic stress conditions besides govern phytohormone mediated immune response and manage to regulate hormones Such group of bacteria also produce another important metabolite i e biosurfactants which are involved in many important functions to bacteria itself as well as for the plants and their ecosystem Biosurfactants may alter nutrient availability endogenous metabolites such as antibiotics production root colonization imparting protection from phytopathogens besides

eradicating soil contaminants and other pollutants The role and activities of surfactants produced by bacteria are multifarious in nature Thus bacterial phytohormones and biosurfactants are identified as effector molecules in plant microbe interactions in pathogenesis and phyto stimulation which can either be beneficial for the bacteria itself or for the crops This book highlights current applications and research on bacterial hormones and surfactants to provide a timely overview The chapters have been contributed by subject experts from around the world and include topics of varied importance which include phytohormones production by rhizospheric and endophytic bacteria their role in rhizosphere competence plant growth regulation bioremediation biosurfactants as antibiofilm agents and other aspects This major new work represents a valuable source of information to all those scientists interested in microbial technology with respect to the microbial innovative products and applications towards sustainable agroecosystem

Endophytes: Crop Productivity and Protection
Dinesh K. Maheshwari, K. Annapurna, 2017-11-14 This book reviews the latest developments in our understanding of microbial endophytes and their potential applications in enhancing productivity and disease protection It covers all the latest discoveries regarding endophytes their interactions with plants and application in agricultural productivity and protection Our understanding of endophytes has increased exponentially in recent decades These microbes such as fungi bacteria and actinobacteria establish a symbiotic or parasitic association with plants A better understanding of endophytic microorganisms may help to elucidate their functions and potential role in developing sustainable systems of crop production and improved protection against biotic stresses Endophytes play a vital role in plant growth and health promotion Endophytic bacteria are of agrobiological interest because they create host endophyte relationships which can open exciting prospects for newer biotechnological applications Endophytes have also proven to be a beneficial and sustainable alternative to agrochemicals due to their role in the biocontrol of pests and diseases Further endophytes are essential to the production of several secondary metabolites in grasses in the process of gummosis in trees and the production of useful metabolites such as alkaloids pestalocide cryptocandin enfumafungin subglutinols etc for the host plant They are also involved in the production of enzymes biosurfactants biocontrol agents and plant growth promoters As such it is imperative that we explore these products industrial applications in the fields of biotechnology pharmacy and agriculture This volume will offer a valuable guidance for botanists microbiologists biotechnologists molecular biologists environmentalists policymakers conservationists and those working for the protection of plant species of agricultural and medicinal importance

Pseudomonas Juan L. Ramos, Alain Filloux, 2010-03-10 Paris is a cosmopolitan city where roaring life wonderful museums and excellent science can be found It was during the XI IUMS conference held in this city that the Pseudomonas book series was first envisaged On the first row of the auditorium sat a group of outstanding scientists in the field who after devoting much of their valuable time contributed in an exceptional manner to the first three volumes of the series which saw the light simultaneously The volumes were grouped under the generic titles of Vol I Pseudomonas Genomics Life Style and

Molecular Architecture Vol II Pseudomonas Virulence and gene regulation Vol III Pseudomonas Biosynthesis of Macromolecules and Molecular Metabolism Soon after the completion of the first three volumes a rapid search for articles containing the word Pseudomonas in the title in the last 10 years produced over 6 000 articles Consequently not all possible topics relevant to this genus were covered in the three first volumes Since then two other volumes were published Pseudomonas volume IV edited by Roger Levesque and Juan L Ramos that came to being with the intention of collecting some of the most relevant emerging new issues that had not been dealt with in the three previous volumes This volume was arranged after the Pseudomonas meeting organized by Roger Levesque in Quebec Canada It dealt with various topics grouped under a common heading Pseudomonas Molecular Biology of Emerging Issues Climate Change and Microbial Diversity Suhaib A. Bandh, Javid A. Parray, Nowsheen Shameem, 2022-08-18 The ongoing global climate change triggered by greenhouse gas growth has had a significant effect on the microbial dynamics of plants and soils This volume explores the various microbial responses of plants and soils caused directly or indirectly by climate change resulting from rising greenhouse gases and other factors The book considers the rapidly changing environment and the important role of microbiomes in restoring soil and plant health and in creating sustainable approaches It discusses the adaptation and mitigation of plants and soils specifically addressing such topics as biogeochemical processes antimicrobial resistance the dynamics of bacteria and fungus in extreme environments bacterial siderophores for sustainability and more The volume also looks at edaphic and regeneration performance of tree species in the temperate forests **Bacterial Signaling** Reinhard Krämer, Kirsten Jung, 2009-12-09 Providing a comprehensive insight into cellular signaling processes in bacteria with a special focus on biotechnological implications this is the first book to cover intercellular as well as intracellular signaling and its relevance for biofilm formation host pathogen interactions symbiotic relationships and photo and chemotaxis In addition it deals in detail with principal bacterial signaling mechanisms making this a valuable resource for all advanced students in microbiology Dr Krämer is a world renowned expert in intracellular signaling and its implications for biotechnology processes while Dr Jung is an expert on intercellular signaling and its relevance for biomedicine and agriculture Microbial Phenazines Sudhir Chincholkar, Linda Thomashow, 2013-12-05 Microbial Phenazines Biosynthesis Agriculture and Health focuses on phenazines a group of upwards of a hundred nitrogen containing redox active heterocyclic compounds of bacterial origin that have long attracted scientific interest because of their colorful pigmentation Our understanding of these fascinating natural products and their role in human health and the environment has advanced rapidly in recent years but we are only now beginning to be able to exploit the potential of these compounds in such fields as agriculture and medicine This volume includes information on the biochemistry and genetics of phenazine synthesis the physiological effects of phenazines and methods for the isolation and identification of phenazines with the aid of spectroscopic and electrophoretic techniques Also included are chapters focused on the roots of phenazine research in the biological control of plant pathogens and recent knowledge of the

diversity of phenazine producing microorganisms and the environments in which they occur A final chapter addresses the potential of phenazines in the treatment of cancer

Pseudomonas and Acinetobacter: From Drug Resistance to Pathogenesis Ghassan M. Matar, 2018-05-03 *Pseudomonas aeruginosa* and *Acinetobacter baumannii* are among the most common non lactose fermenting Gram negative pathogens responsible for hospital acquired infections especially in intensive care units ICUs The treatment of infections caused by these bacteria is complicated due to the emergence of multi drug resistance as the two species are noted for their intrinsic resistance to antimicrobial agents and their ability to acquire genetic elements that encode for resistance determinants In both species resistance to multiple classes of antimicrobial agents can seriously compromise the ability to treat infected patients especially the immunocompromised Consequently very few antimicrobials remain as treatment options Mechanisms of resistance in both of these pathogens include the production of lactamases and aminoglycoside modifying enzymes as well as reduced or lack of expression of outer membrane proteins mutations in topoisomerases and up regulation of efflux pumps To that purpose the findings of the studies included in this book deal with the prevalence of resistant isolates to various antimicrobial agents in both *P. aeruginosa* and *A. baumannii* their underlying mechanisms of resistance their virulence factors their pathogenesis and prospective treatment options Special thanks are due to Mr Bassam El Hafi for facilitating procedures involved in this publication

Sustainable Agriculture Reviews 31 Eric Lichtfouse, 2018-09-26 This book presents advanced ecological techniques for crop cultivation and the chapters are arranged into four sections namely general aspects weeds fungi worms and microbes Biocontrol is an ecological method of controlling pests such as insects mites weeds and plant diseases using other organisms This practice has been used for centuries Biocontrol relies on predation parasitism herbivory or other natural mechanisms Natural enemies of insect pests also known as biological control agents include predators parasitoids pathogens and competitors

Microbiology in Agriculture and Human Health Mohammad Manjur Shah, 2015-07-16 Microbiology involves the study of microscopic living organisms Most of them are unicellular and all the life processes are performed by a single cell They are associated with the health and welfare of human beings Among the biological sciences microbiology has established itself a place in the current century Microorganisms also provide experimental models in various research activities and an answer to numerous fundamental questions in genetics metabolism cell form and function This book is presented in six chapters comprising of two sections The first section deals with Microbiology and Agriculture and the second section deals with Microbiology and Human Health The book is expected to attract wide audience from various fields of biological sciences in general and microbiologists in particular

Probiotics in Agroecosystem Vivek Kumar, Manoj Kumar, Shivesh Sharma, Ram Prasad, 2017-09-26 This book focuses on food security in sustainable agriculture and nutrient management The study of plant probiotic microbes synergism using existing techniques has greatly improved our grasp of the structure and functioning of the plant microbiome However the function of plant probiotic microbes and their relation to plants health in the context of

food security soil nutrient management human and plant health are largely unexplored Compared to human probiotics diverse types and millions of microbiota inhabit plants forming multifaceted and complicated ecological societies that stimulate plant growth and health through their combined metabolic activities From the perspective of sustainable cropping systems observing plant probiotics can provide insights on how to stimulate and maintain plant productivity along with host stress tolerance and recycling of soil nutrients This book combines reviews and original research articles to highlight the latest advances in plant probiotics their specificity diversity function as well as plant microbiome management to improve plant growth and productivity nutrient management and human health

Management of Greywater in Developing Countries Radin Maya Saphira Radin Mohamed, Adel Ali Saeed Al-Gheethi, Amir Hashim Mohd Kassim, 2018-05-04 This book reviews the consequences of improper disposal of greywater into the environment and the most appropriate treatment technologies for developing countries focusing on the potential to reuse greywater as a production medium for biomass and bio products It also describes the quantities and qualitative characteristics as well as the common practice of discharging greywater in developing countries and highlights the associated health risks Further it compares the management of greywater in developed and developing countries and explores the advantages and disadvantages of various treatment technologies discussing the reuse of greywater for irrigation purposes in arid and sub arid countries especially in the Middle East The book shows the benefits of greywater and introduces low cost technologies based on the available local facilities can be used to discharge reuse and recycle it

Beneficial Microbes in Agro-Ecology N. Amaran, M. Senthil Kumar, K. Annapurna, Krishna Kumar, A. Sankaranarayanan, 2020-05-14 Beneficial Microbes in Agro Ecology Bacteria and Fungi is a complete resource on the agriculturally important beneficial microflora used in agricultural production technologies Included are 30 different bacterial genera relevant in the sustainability mechanisms and beneficial natural processes that enhance soil fertility and plant growth The second part of the book discusses 23 fungal genera used in agriculture for the management of plant diseases and plant growth promotion Covering a wide range of bacteria and fungi on biocontrol and plant growth promoting properties the book will help researchers academics and advanced students in agro ecology plant microbiology pathology entomology and nematology Presents a comprehensive collection of agriculturally important bacteria and fungi Provides foundational knowledge of each core organism utilized in agro ecology Identifies the genera of agriculturally important microorganisms

Model Organisms for Microbial Pathogenesis, Biofilm Formation and Antimicrobial Drug Discovery Busi Siddhardha, Madhu Dyavaiah, Asad Syed, 2020-03-28 This book provides essential insights into microbial pathogenesis host pathogen interactions and the anti microbial drug resistance of various human pathogens on the basis of various model organisms The initial sections of the book introduce readers to the mechanisms of microbial pathogenesis host pathogen interactions anti microbial drug resistance and the dynamics of biofilm formation Due to the emergence of various microbial resistant strains it is especially important to understand the prognosis for microbial

infections disease progression profiles and mechanisms of resistance to antibiotic therapy in order to develop novel therapeutic strategies In turn the second part of the book presents a comparative analysis of various animal models to help readers understand microbial pathogenesis host pathogen interactions anti microbial drug discovery anti biofilm therapeutics and treatment regimes Given its scope the book represents a valuable asset for microbiologists biotechnologists medical professionals drug development researchers and pharmacologists alike

Current Challenges and Future Perspectives on Emerging Bioelectrochemical Technologies Tian Zhang,Pier-Luc Tremblay,2016-08-05 The increasing demand for energy worldwide currently evaluated at 13 terawatts per year has triggered a surge in research on alternative energy sources more sustainable and environmentally friendly Bio catalyzed electrochemical systems BESs are a rapidly growing biotechnology for sustainable production of bioenergy and or value added bioproducts using microorganisms as catalysts for bioelectrochemical reactions at the electrode surface In the last decades this biotechnology has been intensively studied and developed as a flexible and practical platform for multiple applications such as electricity production wastewater treatment pollutants remediation desalination and production of biogas biofuels or other commodities BESs could have a critical impact on societies in many spheres of activity and become one of the solutions to reform our petroleum based economy However BESs research has so far been limited to lab scale with the notable exceptions of pilot scale microbial fuel cells for brewery and winery wastewater treatment coupled with electricity generation In general more knowledge has to be acquired to overcome the issues that are stymieing BESs development and commercialization For example it is critical to understand better microbial physiology including the mechanisms responsible for the transfer of electrons between the microbes and the electrodes to start optimizing the systems in a more rational manner There are many BES processes and for each one of them there is a multitude of biological and electrochemical specifications to investigate and adjust such as the nature of the microbial platform electrode materials the reactor design the substrate the medium composition and the operating conditions The ultimate goal is to develop highly energy efficient BESs with a positive footprint on the environment while maintaining low cost and generating opportunities to create value BESs are complex systems developed with elements found in multiple fields of science such as microbiology molecular biology bioinformatics biochemistry electrochemistry material science and environmental engineering Given the high volume of research activities going on in the field of BESs today this e book explores the current challenges the more recent progresses and the future perspectives of BESs technologies The BESs discussed here include microbial fuel cells microbial electrolysis cells microbial electrosynthesis cells microbial electroremediation cells etc

Systems Biology and Biotechnology of Escherichia coli Sang Yup Lee,2009-03-20 Systems biology is changing the way biological systems are studied by allowing us to examine the cell and organism as a whole Systems biotechnology allows optimal design and development of upstream to downstream bioprocesses by taking a systems approach E coli has been a model organism for almost all biological and biotechnological studies This book brings

together for the first time the state of the art reviews by the world leading experts on systems biology and biotechnological applications of E coli The topics covered include genomics and functional genomics resources for systems biology network analysis genome scale metabolic reconstruction modelling and simulation dynamic modelling and simulation systems level analysis of evolution plasmids and expression systems protein synthesis production and export engineering the central metabolism synthetic biology and systems metabolic engineering of E coli This book provides readers with guidance on how a complex biological system can be studied using E coli as a model organism It also presents how to perform synthetic biology and systems metabolic engineering studies on E coli with successful examples the approaches of which can be extended to other organisms This book will be a complete resource for anyone interested in systems biology and biotechnology *Book Review Index - 2009 Cumulation* Dana Ferguson, 2009-08 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year

Biopolymers for Biomedical and Biotechnological Applications
 Bernd H. A. Rehm, M. Fata Moradali, 2021-07-06 Provides insight into biopolymers their physicochemical properties and their biomedical and biotechnological applications This comprehensive book is a one stop reference for the production modifications and assessment of biopolymers It highlights the technical and methodological advancements in introducing biopolymers their study and promoted applications Biopolymers for Biomedical and Biotechnological Applications begins with a general overview of biopolymers properties and biocompatibility It then provides in depth information in three dedicated sections Biopolymers through Bioengineering and Biotechnology Venues Polymeric Biomaterials with Wide Applications and Biopolymers for Specific Applications Chapters cover advances in biocompatibility advanced microbial polysaccharides microbial cell factories for biomanufacturing of polysaccharides exploitation of exopolysaccharides from lactic acid bacteria and the new biopolymer for biomedical application called nanocellulose Advances in mucin biopolymer research are presented along with those in the synthesis of fibrous proteins and their applications The book looks at microbial polyhydroxyalkanoates PHAs as well as natural and synthetic biopolymers in drug delivery and tissue engineering It finishes with a chapter on the current state and applications of and future trends in biopolymers in regenerative medicine Offers a complete and thorough treatment of biopolymers from synthesis strategies and physiochemical properties to applications in industrial and medical biotechnology Discusses the most attracted biopolymers with wide and specific applications Takes a systematic approach to the field which allows readers to grasp and implement strategies for biomedical and biotechnological applications Biopolymers for Biomedical and Biotechnological Applications appeals to biotechnologists bioengineers and

polymer chemists as well as to those working in the biotechnological industry and institutes

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