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The Plant Microbiome - Lilia C. Carvalhais
2021-11-22

This volume provides methods, protocols, and reviews that are useful for new and experienced plant microbiome researchers. Chapters guide readers through the investigation of microbiomes associated with seeds, sampling microbiomes from plant compartments and tissues, culture-based methods, culture-independent metabarcoding methods, methods to obtain DNA and perform metabarcoding, protocols to block PCR amplification from the plant host, qPCR-based methods, editing of specific genes in *Bacillus* genomes, and *Streptomyces* and plant microbial indicators. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *The Plant Microbiome: Methods and Protocols* aims to ensure successful results in the further study of this vital field.

Ethylene in Plant Biology - Frederick Abeles
2012-12-02

Ethylene in Plant Biology focuses on the role of ethylene in plant physiology and the interrelationship between ethylene, fruit ripening, and respiration. It summarizes the physiology, biochemistry, production, regulation, plant effects, metabolism, and mechanism of action of ethylene. This book presents an

introduction to basic chemistry of ethylene and available techniques for its sampling and analysis. Then, it discusses the rate, environmental conditions, and reactions involved in ethylene production. Chapter 4 examines the effects of herbicides and hormones, such as auxin, gibberellins, cytokinins, and abscisic acid, on ethylene production. Meanwhile, the next chapter studies the so-called stress ethylene phenomenon in plants. In particular, this book examines the role of insects, temperature, water, gamma-irradiation, and mechanical and chemical stimuli in stress ethylene. The biochemical aspects of ethylene are covered in the subsequent chapters. These include its role in growth and development of plant, phytochrome activity, role in ethylene synthesis, respiration, pigmentation, and hormone regulation. Chapter 9 presents the activity of ethylene relative to other hydrocarbon analogs and dose-response relationships for a number of ethylene-mediated processes. The concluding chapters tackle the attachment of ethylene to its site of action, including epinasty, root initiation, intumescence formation, and floral initiation. A discussion on the issue of ethylene air pollution is included. This book will be useful to both undergraduate students and professional workers, especially those who have background in plant anatomy, plant physiology, or biochemistry.

Biotechnology for Sustainable Agriculture
Lakhan Singh 2017-09-12

Biotechnology for Sustainable Agriculture:

Emerging Approaches and Strategies is an outstanding collection of current research that integrates basic and advanced concepts of agricultural biotechnology with future development prospects. Using biotechnology with sustainable agriculture effectively contributes to gains in agricultural productivity, enhanced food security, reduced poverty and malnutrition, and more ecologically sustainable means of food production. Written by a panel of experts, this book is unique in its coverage of the broad area of biotechnology for sustainable agriculture. It includes intriguing topics and discussions of areas such as recombinant DNA technology and genetic engineering. Identifies and explores biotechnological tools to enhance sustainability Encompasses plant and microbial biotechnology, nanotechnology and genetic engineering Focuses on plant biotechnology and crop improvement to increase yield and resilience Summarizes the impact of climate change on agriculture, fisheries and livestock

The Official (ISC)2 Guide to the SSCP CBK - Adam Gordon 2016-05-16

The fourth edition of the Official (ISC)2® Guide to the SSCP CBK® is a comprehensive resource providing an in-depth look at the seven domains of the SSCP Common Body of Knowledge (CBK). This latest edition provides an updated, detailed guide that is considered one of the best tools for candidates striving to become an SSCP. The book offers step-by-step guidance through each of SSCP's domains, including best practices and techniques used by the world's most experienced practitioners. Endorsed by (ISC)² and compiled and reviewed by SSCPs and subject matter experts, this book brings together a global, thorough perspective to not only prepare for the SSCP exam, but it also provides a reference that will serve you well into your career.

Crop Water Requirement - Rashmi Mehta 2018

Plant Nutrient Management in Hawaii's Soils - James A. Silva 2014-05-30

Today's approach to crop production considers not only the effects of fertilizer applications on crop yield and quality but also includes awareness of the potential of fertilizer nutrients to adversely affect the environment. Managing crop nutrients deliberately and carefully takes

on special significance in Hawaii, where imported nutrient inputs are costly and the environment--particularly the underground aquifer and coastal waters--is vulnerable to pollution. This book contains a distillation of decades of CTAHR research on soils, fertilizers, and crop nutrient needs, written for the lay reader and intended to provide a solid base of knowledge for the serious agriculturist. While the text makes reference to Hawaii's crops and soil conditions, its basic information is transferrable to similar tropical and subtropical locations throughout the world.

Folktale Collection - 2021

Biometrics and Identity Management Ben Schouten 2008-12-23

A key driving factor for biometrics is the widespread national and international deployment of biometric systems that has been initiated in the past two years and is about to accelerate. While nearly all current biometric deployments are government-led and principally concerned with national security and border control scenarios, it is now apparent that the widespread availability of biometrics in everyday life will also spin out an ever-increasing number of (private) applications in other domains. Crucial to this vision is the management of the user's identity, which does not only imply the creation and update of a biometric template, but requires the development of instruments to properly handle all the data and operations related to the user identity. COST Action 2101 on Biometrics for Identity Documents and Smart Cards has emerged as a valuable and effective platform for close collaboration of European scientists from academia and industry researching biometrics for identity documents and smartcards. This has led to the continuous advances achieved in various classes of biometrics and their implementations in the identity management domain. These contributions to knowledge in this field were first presented at the First European Workshop on Biometrics and Identity Management (BioID 2008) organized in Roskilde, Denmark during May 7-9, 2008.

Rose's Vintage - Kayte Nunn 2016-04-18

With her heart in tatters after a relationship break-up, Rose Bennett swaps her hometown of London for the sunny shores of Australia - but

she arrives to find the Shingle Valley shrouded in winter. As the weather improves, Rose starts to unlock the secrets of the valley - from bonfire ceremonies and wine-making traditions to eccentric locals and their histories. Despite herself, Rose starts to fall in love: with the valley, the wines, the two children she's helping to look after - and with the handsome and brilliant Mark Cameron, owner of the troubled Kalkari Wines estate. What will happen when Mark's estranged wife, the tempestuous Isabella, returns? Will Rose find a future in the Shingle Valley, or will she be forced to leave? 'Some books, like wine can be sipped - but I had to gulp this novel down! It was delicious!' - Rachael Treasure

Mobile Biometrics - Guodong Guo 2017-10-06
Mobile biometrics aim to achieve conventional functionality and robustness while also supporting portability and mobility, bringing greater convenience and opportunity for deployment in a wide range of operational environments. Achieving these aims brings new challenges, such as issues around algorithm complexity, device memory limitations and security. This book, the first substantial survey of its kind, brings together high quality research addressing the new challenges of mobile biometrics.

Catalysts for Nitrogen Fixation - Barry E. Smith 2013-03-20

Biological nitrogen fixation provides more than 50% of the total annual input of the essential element nitrogen to world agriculture. Thus, it is of immense agronomic importance and critical to food supplies, particularly in developing countries. This book, with chapters authored by internationally renowned experts, provides a comprehensive and detailed account of the fascinating history of the process - including the surprising discoveries of molybdenum-independent nitrogenases and superoxide-dependent nitrogenase; a review of Man's attempts to emulate the biological process - most successfully with the commercially dominant Haber-Bosch process; and the current state of the understanding art with respect to the enzymes - called nitrogenases - responsible for biological nitrogen fixation. The initial chapters use a historical approach to the biological and industrial processes, followed by

an overview of assay methodologies. The next set of chapters focuses on the classical enzyme, the molybdenum nitrogenase, and details its biosynthesis, structure, composition, and mechanism of action as well as detailing both how variants of its two component proteins are constructed by recombinant DNA technology and how computational techniques are being applied. The sophisticated chemical modelling of the metal-containing clusters in the enzyme is reviewed next, followed by a description of the two molybdenum-independent nitrogenases - first, the vanadium-containing enzyme and then the iron-only nitrogenase - together with some thoughts as to why they exist! Then follows an up-to-date treatment of the clearly "non-classical" properties of the superoxide-dependent nitrogenase, which more closely resembles molybdenum-containing hydroxylases and related enzymes, like nitrate reductase, that it does the other nitrogenases. Each chapter contains an extensive list of references. This book is the self-contained first volume of a comprehensive seven-volume series. No other available work provides the up-to-date and in-depth coverage of this series and this volume. This book is intended to serve as an indispensable reference work for all scientists working in this area, including agriculture and the closely related metals-in-biology area; to assist students to enter this challenging area of research; and to provide science administrators easy access to vital relevant information.

Environmental Biotechnology: For Sustainable Future - Ranbir Chander Sobti 2018-12-06

Environmental sustainability is one of the biggest issues faced by the mankind. Rapid & rampant industrialization has put great pressure on the natural resources. To make our planet a sustainable ecosystem, habitable for future generations & provide equal opportunity for all the living creatures we not only need to make corrections but also remediate the polluted natural resources. The low-input biotechnological techniques involving microbes and plants can provide the solution for resurrecting the ecosystems. Bioremediation and biodegradation can be used to improve the conditions of polluted soil and water bodies. Green energy involving biofuels have to replace

the fossil fuels to combat pollution & global warming. Biological alternatives (bioinoculants) have to replace harmful chemicals for maintaining sustainability of agro-ecosystems. The book will cover the latest developments in environmental biotech so as to use in clearing and maintaining the ecosystems for sustainable future.

Patents Act 1990 (Australia) (2018 Edition) - The Law The Law Library 2018-05-31

Patents Act 1990 (Australia) (2018 Edition) The Law Library presents the complete text of the Patents Act 1990 (Australia) (2018 Edition). Updated as of May 15, 2018 This book contains:

- The complete text of the Patents Act 1990 (Australia) (2018 Edition) - A table of contents with the page number of each section

Rhizosphere Biology: Interactions Between Microbes and Plants - Vadakattu V. S. R. Gupta 2020-08-21

This book presents a detailed discussion on the direct interactions of plants and microorganisms in the rhizosphere environment. It includes fifteen chapters, each focusing on a specific component of plant-microbe interactions, such as the influence of plants on the root microbiome, and the downstream effects of rhizosphere microbial dynamics on carbon and nutrient fluxes in the surroundings. As such, the book helps readers gain a better understanding of diversity above the ground, and its effect on the microbiome and its functionality.

Agroecological Innovation Norman Uphoff 2013-06-17

The world's food supply needs to rise significantly, yet both arable and water supplies per capita are decreasing. Not only are modern agricultural methods beyond the reach of those suffering the greatest food insecurity but they are also ecologically damaging, relying upon fossil energy and chemical inputs. This volume offers a collection of innovative and diverse approaches to agricultural development.

Documented in 12 case studies, these approaches are reliant upon greater knowledge, skill and labour input, rather than larger capital expenditure. They are shown to increase yield substantially, sometimes doubling or tripling output. This volume presents the concepts and operational means for reorienting agricultural efforts towards these more environmentally

friendly and socially desirable approaches in the developed as well as developing world.

Signaling in the Phytomicrobiome Donald L. Smith 2017-08-10

A plant growing under field conditions is not a simple individual; it is a community. We now know that there is a community of microbes associated with all parts of the plant, and that the root associated community is particularly large. This microbial community, the phytomicrobiome, is complex, regulated and the result of almost half a billion years of evolution. Circumstances that benefit the plant generally benefit the phytomicrobiome, and vice versa. Members of the holobiont modulate each other's activities, in part, through molecular signals, acting as the hormones of the holobiont. The plant plus the phytomicrobiome constitute the holobiont, the resulting entity that is that community. The phytomicrobiome is complex, well developed and well-orchestrated, and there is considerable potential in managing this system. The use of "biologicals" will develop during the 21st century and play as large a role as agro-chemistry did in the 20th century. Biologicals can be deployed to enhance plant pathogen resistance, improve plant access to nutrients and improve stress tolerance. They can be used to enhance crop productivity, to meet the expanding demands for plant material as food, fibre and fuel. They can assist crop plants in dealing with the more frequent and more extreme episodes of stress that will occur as climate change conditions continue to develop. The path is clear and we have started down it; there is a considerable distance remaining.

Paper Shadows - Wayson Choy 2005

In 1995, during the publicity tour for his much-acclaimed first novel, "The Jade Peony," Wayson Choy received a mysterious phone call from a woman claiming to have just seen his mother on a streetcar. He politely informed the caller that she must be mistaken, since his mother had died long ago. "No, no, not that mother," the voice insisted. "Your real mother." Inspired by the startling realization that, like many children of Chinatown, he had been adopted, Choy constructs a vivid and moving memoir that reveals uncanny similarities between his award-winning first novel and the newly discovered secrets of his Vancouver childhood. From his

early experiences with ghosts, through his youthful encounters with cowboys and bachelor uncles, to his discovery of family secrets that crossed the ocean from mainland China to Gold Mountain in the form of paper shadows, this is a beautifully wrought portrait of a child's world from one of Canada's most gifted storytellers.

Winter in the Air - Sylvia Townsend Warner 1956

The Pregnant Man - Roberto Zapperi 1991

This book is a most exciting and unusual study of cultural history. The idea of the pregnant man, redolent of bawdy jokes and sexual fantasy, has inspired European literature and folklore since ancient times. Traces of the theme, both comical and disturbing, are found not only in the wealth of tales from Italy, France, Germany, Russia, Finland and other European Countries, but also in the Hebrew and Islamic traditions.

Selfie Biometrics - Ajita Rattani 2019-09-21

This book highlights the field of selfie biometrics, providing a clear overview and presenting recent advances and challenges. It also discusses numerous selfie authentication techniques on mobile devices. Biometric authentication using mobile devices is becoming a convenient and important means of verifying identity for secured access and services such as telebanking and electronic transactions. In this context, face and ocular biometrics in the visible spectrum has gained increased attention from the research community. However, device mobility and operation in uncontrolled environments mean that facial and ocular images captured with mobile devices exhibit substantial degradation as a result of adverse lighting conditions, specular reflections and motion and defocus blur. In addition, low spatial resolution and the small sensor of front-facing mobile cameras further degrade the sample quality, reducing the recognition accuracy of face and ocular recognition technology when integrated into smartphones. Presenting the state of the art in mobile biometric research and technology, and offering an overview of the potential problems in real-time integration of biometrics in mobile devices, this book is a valuable resource for final-year undergraduate students, postgraduate students, engineers, researchers and academics in various fields of

computer engineering.

Color Evaluation Kit - 2019-08-08

Symbiotic Nitrogen Fixation - P. Graham 2012-12-06

During the past three decades there has been a large amount of research on biological nitrogen fixation, in part stimulated by increasing world prices of nitrogen-containing fertilizers and environmental concerns. In the last several years, research on plant-microbe interactions, and symbiotic and asymbiotic nitrogen fixation has become truly interdisciplinary in nature, stimulated to some degree by the use of modern genetic techniques. These methodologies have allowed us to make detailed analyses of plant and bacterial genes involved in symbiotic processes and to follow the growth and persistence of the root-nodule bacteria and free-living nitrogen-fixing bacteria in soils. Through the efforts of a large number of researchers we now have a better understanding of the ecology of rhizobia, environmental parameters affecting the infection and nodulation process, the nature of specificity, the biochemistry of host plants and microsymbionts, and chemical signalling between symbiotic partners. This volume gives a summary of current research efforts and knowledge in the field of biological nitrogen fixation. Since the research field is diverse in nature, this book presents a collection of papers in the major research area of physiology and metabolism, genetics, evolution, taxonomy, ecology, and international programs.

Strandloper - Alan Garner 2014-03-27

A captivating novel by the author of the 2022 Booker Prize-longlisted *Treacle Walker* Based on a true story, *Strandloper* tells the extraordinary tale of a nineteenth-century Englishman, William Buckley, who was convicted and transported to Australia. Refusing to accept his fate he escaped and lived among the Aborigines for thirty years. In this visionary novel, Alan Garner is as true to William the Cheshire bricklayer and William the Aboriginal spiritual leader, as William is true to his fate. The result is extraordinary. 'A remarkable feat of literary imagination' *Sunday Times*

Biofertilizers for Sustainable Agriculture and Environment - Bhoopander Giri 2019-08-09

This book provides a comprehensive overview of

the benefits of biofertilizers as an alternative to chemical fertilizers and pesticides. Agricultural production has increased massively over the last century due to increased use of chemical fertilizers and pesticides, but these gains have come at a price. The chemicals are not only expensive; they also reduce microbial activity in agricultural soils and accumulate in the food chain, with potentially harmful effects for humans. Accordingly, it is high time to explore alternatives and to find solutions to overcome our increasing dependence on these chemicals. Biofertilizers, which consist of plant remains, organic matter and microorganisms, might offer an alternative. They are natural, organic, biodegradable, eco-friendly and cost-effective. Further, the microbes present in the biofertilizers are important, because they produce nutrients required for plant growth (e.g., nitrogen, phosphorus, potassium), as well as substances essential for plant growth and development (e.g., auxins and cytokinins). Biofertilizers also improve the physical properties, fertility and productivity of soil, reducing the need for chemical fertilizers while maintaining high crop yield. This makes biofertilizers a powerful tool for sustainable agriculture and a sustainable environment. The book covers the latest research on biofertilizers, ranging from beneficial fungal, bacterial and algal inoculants; to microbes for bioremediation, wastewater treatment; and recycling of biodegradable municipal, agricultural and industrial waste; as well as biocontrol agents and bio-pesticides. As such, it offers a valuable resource for researchers, academics and students in the broad fields of microbiology and agriculture.

Sylvia Townsend Warner - Claire Harman
2015-10-29

Winner of the John Llewellyn Rhys Prize 'One of the most shamefully under-read great British authors of the past 100 years' Sarah Waters The poet Sylvia Townsend Warner rose to sudden fame with the publication of her classic feminist novel *Lolly Willowes* in 1926, but never became a conventional member of London literary life, pursuing instead a long writing career in her own individualistic manner. Cheerfully defying social norms of the day, Warner lived in an openly homosexual relationship with the poet

Valentine Ackland for almost forty years. Together, they were committed members of the Communist party and travelled twice to Spain during the Civil War, but Warner paid for her outspokenness with years of neglect, and channelled much of her emotional and intellectual energy into letters, poems and heart-breaking diaries that remained unpublished during her lifetime. In this enthralling and enlightening biography, Claire Harman tells the story of Warner's remarkable life and restores her to her rightful place as one of Britain's most unique and brilliant writers. "As passionate and truthful, elegant and enchanting as its subject." George D Painter "Harman skilfully weaves Sylvia's stories and letters into the biography, and the brilliance of the samples on display constantly takes you aback... Outstanding" Sunday Times

Soul Confessions Monique Miller 2008

When her husband's ex-girlfriend arrives on their doorstep, Shelby Tomlinson--a mother pregnant with her second child--finally learns about her husband's secrets and lies.

Mr. Fortune's Maggot Sylvia Townsend Warner 2001

Two novels featuring the troubled English missionary Mr. Fortune, *Mr. Fortune's Maggot* and *The Salutation*, take readers deep into the heart of a man in search of his own soul. Original.

Guide of Rome the eternal city : Rome, the Vatican, the Sistine chapel - 1996

USB Embedded Hosts - Jan Axelson 2011-11-01
Developers who want to access USB devices from their embedded systems will find a helpful resource in *USB Embedded Hosts: The Developer's Guide*. This new book from the author of *USB Complete* shows how small systems can take advantage of the same wealth of USB devices available to conventional PCs. The book begins with a review of USB host communication protocols. Readers then learn which USB host requirements are relaxed for embedded systems and what new requirements some embedded systems must meet. To help in selecting a development platform, the book explores available hardware and software for USB host communications in small systems. The heart of the book focuses on communicating

with USB devices. The topics (with example code) include USB drives, keyboards, virtual serial ports, network bridges, mics, speakers, video cameras, and printers, plus devices that don't fit defined USB classes. Also discussed are systems that support both USB host and device functions. The example code is written for the BeagleBoard-xM open development board using a distribution of Linux targeted to small systems. Also covered is how to use Linux commands and utilities to learn about, monitor, and debug communications with USB devices.

Alkaline Phosphatase - Robert B. McComb
2013-11-11

There can be no doubt that alkaline phosphatase is one of the most extensively investigated of all enzymes. This has resulted from the ubiquity of its distribution, and from the ease and sensitivity with which its activity can be measured.

Unfortunately, these wide-ranging but often superficial experimental studies have been followed up by intensive and systematic investigations in only a few limited areas of the biochemistry and chemical pathology of alkaline phosphatase. The result has been the accumulation of a scientific literature of intimidating proportions, and the inevitable rediscovery of already known facts about the enzyme. Scientists are taught early in their careers that, in the words of Sir John Herschel, "Hasty generalization is the bane of science." Nevertheless, moments arrive in all spheres of scientific activity when generalization becomes essential, to codify and to select from the mass of data already accumulated, and to provide starting points for new developments and new lines of investigation. This is especially true in a field such as alkaline phosphatase research, in which very real dangers exist that the seeds of fundamental understanding will be lost amidst an unexamined harvest of empirical observations. The history of the study of alkaline phosphatase provides several instances when valuable generalizations have emerged.

Occasionally, the conclusions drawn on the basis of available evidence were wrong; more frequently, they have stood the test of further experimentation, and always, they have provided new insights into the nature and proper ties of this enzyme.

Food-Energy-Water Nexus Resilience and

Sustainable Development - Somayeh Asadi
2020-03-28

This book presents readers with an integrated modeling approach for analyzing and understanding the interconnection of water, energy, and food resources and discusses the relationship between resilience and sustainability of the food- energy -water (FEW) system. Authors provide novel frameworks, models, and algorithms designed to balance the theoretical and applicative aspects of each chapter. The book covers an integrated modeling approach for FEW systems along with developed methods, codes, and planning tools for designing interdependent energy, water and food systems. In-depth chapters discuss the impact of renewable energy resources in FEW systems, sustainable design and operation, net zero energy buildings, and challenges and opportunities of the FEW nexus in the sustainable development of different countries.

This book is useful for graduate students, researchers, and engineers seeking to understand how sustainable FEW systems contribute to the resilience of these systems and help policy and design makers allocate and prioritize resources in an integrated manner across the food, energy, and water sectors.

The Australian Official Journal of Trademarks - 1906

Proceedings of the National Conference on Water, Food Security, and Climate Change in Sri Lanka, BMICH, Colombo, June 9-11, 2009. Volume 1. Irrigation for food security - P. Weligamage 2010

Contributed papers presented at the conference organized by International Water Management Institute, Irrigation Dept., Dept. of Agriculture, and Hector Kobbekaduwa Agrarian Research and Training Institute.

Perplexities - Ricarda Denzer 2013

Decisions of the Commissioner of Patents - 1871

The Corner That Held Them - Sylvia Townsend Warner 2019-09-10

A unique novel about life in a 14th-century convent by one of England's most original authors. Sylvia Townsend Warner's *The Corner That Held Them* is a historical novel like no

other, one that immerses the reader in the dailiness of history, rather than history as the given sequence of events that, in time, it comes to seem. Time ebbs and flows and characters come and go in this novel, set in the era of the Black Death, about a Benedictine convent of no great note. The nuns do their chores, and seek to maintain and improve the fabric of their house and chapel, and struggle with each other and with themselves. The book that emerges is a picture of a world run by women but also a story—stirring, disturbing, witty, utterly entrancing—of a community. What is the life of a community and how does it support, or constrain, a real humanity? How do we live through it and it through us? These are among the deep questions that lie behind this rare triumph of the novelist's art.

State of the art in Biometrics Jucheng Yang
2011-07-27

Biometric recognition is one of the most widely studied problems in computer science. The use of biometrics techniques, such as face, fingerprints, iris and ears is a solution for obtaining a secure personal identification. However, the "old" biometrics identification techniques are out of date. This goal of this book is to provide the reader with the most up to date research performed in biometric recognition and describe some novel methods of biometrics, emphasis on the state of the art skills. The book consists of 15 chapters, each focusing on a most up to date issue. The chapters are divided into

five sections- fingerprint recognition, face recognition, iris recognition, other biometrics and biometrics security. The book was reviewed by editors Dr. Jucheng Yang and Dr. Loris Nanni. We deeply appreciate the efforts of our guest editors: Dr. Girija Chetty, Dr. Norman Poh, Dr. Jianjiang Feng, Dr. Dongsun Park and Dr. Sook Yoon, as well as a number of anonymous reviewers

Principles of Plant-Microbe Interactions -
Ben Lugtenberg 2014-12-04

The use of microbial plant protection products is growing and their importance will strongly increase due to political and public pressure. World population is growing and the amount of food needed by 2050 will be double of what is produced now whereas the area of agricultural land is decreasing. We must increase crop yield in a sustainable way. Chemical plant growth promoters must be replaced by microbiological products. Also here, the use of microbial products is growing and their importance will strongly increase. A growing area of agricultural land is salinated. Global warming will increase this process. Plants growth is inhibited by salt or even made impossible and farmers tend to disuse the most salinated lands. Microbes have been very successfully used to alleviate salt stress of plants. Chemical pollution of land can make plant growth difficult and crops grown are often polluted and not suitable for consumption. Microbes have been used to degrade these chemical pollutants.