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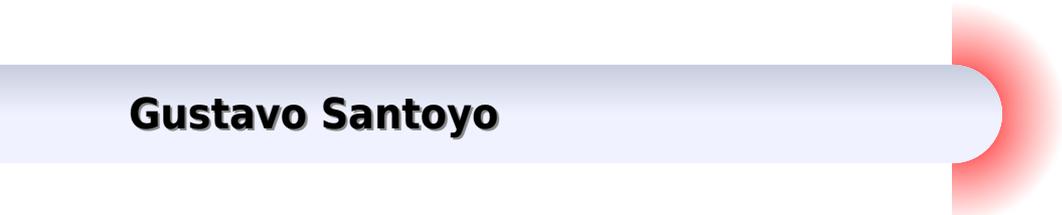
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Phytomicrobiome and Stress Regulation Azam Khan, Ken D. Mix, Noshin Ilyas, Riyaz Sayyed, 2025-08-01

Phytomicrobiome and Stress Regulation a volume in the Microbiome Research in Plants and Soil series provides an in depth examination of how plant associated microbial communities mitigate various stresses The book explores the complexities of abiotic and biotic stresses faced by plants emphasizing the importance of the phytobiome in stress alleviation This comprehensive overview sheds light on the significant role that microbial composition and diversity play in driving ecological functions and enhancing plant resilience In addition to addressing stress mitigation the book highlights advances in applied crop microbiology and the dynamic responses of microbial communities to environmental changes It underscores the impact of these communities on soil functioning and ecosystem health making it a critical resource for understanding future climate change scenarios and their implications for plant health Through detailed studies and evidence based insights the book aims to foster a more complete understanding of the intricate relationship between plants and their microbial allies Highlights current research into the resilience of phytomicrobiomes to biotic and abiotic stresses and the related benefit to plants Explains the benefits to agricultural productivity by improving soil structure increasing ecosystem nutrient availability and developing new intervention for insect pests Presents the dynamisms of below and above ground microbiome in stress mitigation

Biomedical Waste Management Neha Suyal, Prasenjit Debbarma, Manali Singh, Anita Mishra, Roop S. Bora, 2024-09-23 Healthcare facilities medical laboratories and biomedical research facilities generate large amounts of biomedical waste Poor management of the waste can cause serious health and environmental hazards This book aims to cover the latest technologies and innovations for sustainable management It covers bioremediation processes plastic waste recycling and metal recovery It also discusses waste monetization such as conversion into energy

Soil Microorganisms for Plant Growth Promotion and Soil Health Gustavo Santoyo, 2025-10-17 Soil Microorganisms for Plant Growth Promotion and Soil Health provides readers with an overview of plant growth promoting microorganisms and their molecular mechanisms to improve plant growth and soil health Students and researchers in soil science will gain a comprehensive understanding of soil microbiota diversity and functions along with insights into the mechanisms by which plant growth including molecular processes involved in nutrient acquisitions and defense mechanisms work In addition the book provides a noteworthy emphasis on fungi A soil beneficial microbe cannot only be the living cells but also their components such as molecules or enzymes produced by this beneficial microbiota Molecules like microbial phytohormones can be excellent promoters or regulators of plant growth as well as proteins and other compounds like volatiles which might elicit a systemic resistance response against pathogenic threats Therefore plant growth promoters living in soil associated with plant roots could act through direct beneficial interactions with the plant by stimulating or regulating growth responses to environmental conditions or indirectly by inhibiting the growth of potential microbial pathogens and herbivore pests

Consolidates the latest advances on plant growth promoting microorganisms residing in soil Includes both direct e g phytohormones plant nutrition and indirect e g biocontrol mechanisms to promote plant growth Covers the main mechanisms to promote plant growth phytohormones and biocontrol Includes detailed information about types of soil microorganisms including bacteria fungi and other microscopic organisms and their specific functions and impact on soil health

Investigative and Predictive DNA Testing Hirak Ranjan Dash,2025-11-05 Investigative and Predictive DNA Testing delves into the cutting edge of DNA analysis presenting a comprehensive guide that unlocks the potential of DNA in solving complex cases This book stands as a vital resource for students practitioners and researchers in fields such as biology zoology medicine anthropology microbiology and genetics Designed for those with a basic understanding of biological sciences it is particularly beneficial for graduate post graduate and research level students The book explores the evolution of DNA analysis focusing on predictive methods and investigative leads such as ancestry lineage and phenotype Each chapter contributed by internationally renowned experts highlights the transformative role of artificial intelligence and machine learning in enhancing the accuracy and utility of DNA analysis The book is comprised of various sections starting with fundamental concepts of investigative and predictive DNA analysis followed by technological advancements in the field and concluding with the challenges and future concerns of DNA analysis It serves as an indispensable tool for anyone looking to expand their knowledge and skills in DNA analysis making it a must read for the scientific community Describes the fundamentals of investigative and predictive approaches for forensic applications Explains the technological advances in forensic DNA analysis Includes real case studies related to predictive DNA analysis Provides futuristic use and applications of predictive forensic DNA analysis Uses real time images for easy understanding

Smart Universities in Smart Cities

Joanna Rosak-Szyrocka,Radosław Wolniak,2025-06-30 Smart Universities in Smart Cities Shaping the Future of Education and Urban Innovation focuses on how higher education institutions are adapting to the challenges of the digital age in a world increasingly influenced by technology and sustainability Universities are becoming an indispensable element of smart cities driving forward innovation sustainability and urban living The book explores how emerging technologies such as AI IoT and blockchain are transforming campuses into dynamic data driven ecosystems Both of these dimensions are studied through data analytics case studies and futuristic thinking perspectives to identify opportunities and challenges of the establishment of smart universities within the broader ecosystem of smarter cities The book offers a holistic approach to planning educational institutions covering issues such as sustainable campus development digital learning environments and smart mobility solutions As universities undergo digital transformation they advance not only learning but also the larger role of academia in society The book envisions the future where intelligent campuses act as centres of knowledge collaboration and sustainable development propelling the world into a smarter and more inclusive reality for future generations It will be of interest to researchers and students of urban planning and sustainability studies as well as to urban planners and

policymakers Challenges and Solutions of Climate Impact on Agriculture Shah Fahad, Muhammad Adnan, Iqbal Munir, Rattan Lal, Taufiq Nawaz, Shah Saud, 2024-10-08 Challenges and Solutions of Climate Impact on Agriculture explores issues arising from the changing climate for agricultural plants with a soil focused approach Addressing the impacts on a range of important global food crops it looks at issues of water and temperature and their impact on soil quality for production Presented by a global team of experts this book will be important for researchers seeking to understand specific challenges and means of addressing those challenges effectively and efficiently The agriculture sector is arguably one of the most sensitive to changes in the climate Because the climate of a region determines the nature and characteristics of vegetation and crops any change in the mean seasonal temperature and decrease in effective precipitation can reduce productive periods for crops risking outbreaks of pests and disease and negatively affecting global food security Explains the impact of climate change on soil properties productivity and microbial diversity Provides detailed information regarding the impact of climate change on yields of cereal grains and other crops Enables agricultural scientists to design policies and management strategies for sustainable agriculture **Living With Climate Change** Trevor Letcher, 2023-12-01 Living with Climate Change contains different topics on how to adapt to global warming With a strong focus on ways of adapting to climate change the book also examines the root causes of global warming Readers are provided all the most up to date thinking and information on each issue due to the extensive list of references connected to each chapter By linking various topics and interesting new innovations that are often synergistic this book covers a wide range of issues in global warming adaptation that is ideal for readers from many disciplines Covers ways of coping with global warming and climate change Contains the most up to date information on how to prevent the worst effects of global warming Discusses the connection of climate change to human health Bioengineered Nanomaterials for Wound Healing and Infection Control Hamed Barabadi, Muthupandian Saravanan, Ebrahim Mostafavi, Hossein Vahidi, 2023-08-01 Bioengineered Nanomaterials for Wound Healing and Infection Control is a key reference for those working in the fields of materials science pharmacy nanotechnology biomedical engineering and microbiology Bioengineered nanomaterials have unique physicochemical properties which promote accelerated wound healing and treatment of infections The biosynthesis of these nanomaterials also offers a clean safe and renewable alternative to traditional nanomaterials helping reduce environmental impact alongside antibacterial resistance Provides an overview of the role of biofilms and multidrug resistance in wound infections Covers a range of bioengineered nanomaterial types and nanotechnology based approaches including phyconanotechnology phytonanotechnology and microbial nanotechnology Helps readers discover novel materials for use in wound healing and infection control while reducing the probability of antibiotic resistance **Anthropocene Ecologies of Food** Simon C. Estok, Susan Deborah, Rayson K. Alex, 2022-06-22 Anthropocene Ecologies of Food provides a detailed exploration of cross cultural aspects of food production culinary practices and their ecological underpinning in culture The authors draw

connections between humans and the entire process of global food production focusing on the broad implications these processes have within the geographical and cultural context of India Each chapter analyzes and critiques existing agricultural food practices and representations of aspects of food through various media such as film literature and new media as they relate to global issues generally and Indian contexts specifically correcting the omission of analyses focused on the Global South in virtually all of the work that has been done on Anthropocene ecologies of food This unique volume employs an ecocritical framework that connects food with the land in physical and virtual communities and the book as a whole interrogates the meanings and implications of the Anthropocene itself

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