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A Key to Pea Varieties Feb 21 2023

Concepts of Biology Aug 15 2022 Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue

with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Proteomic Responses of Uninfected Tissues of Pea Plants Infected by Root-knot Nematode, Fusarium and Downy Mildew Pathogens Dec 15 2019 Peas suffer from several diseases, and there is a need for accurate, rapid in-field diagnosis. This study used proteomics to investigate the response of pea plants to infection by

the root knot nematode Meloidogyne hapla, the root rot fungus Fusarium solani and the downy mildew oomycete Peronospora viciae, and to identify potential biomarkers for diagnostic kits. A key step was to develop suitable protein extraction methods. For roots, the Amey method (Chuisseu Wandji et al., 2007), was chosen as the best method. The protein content of roots from plants with shoot infections by P. viciae was less than from non-infected plants. Specific proteins that had decreased in abundance were (1->3)-beta-glucanase, alcohol dehydrogenase 1, isoflavone reductase, malate dehydrogenase, mitochondrial ATP synthase subunit alpha, eukaryotic translation inhibition factor, and superoxide dismutase. No proteins increased in abundance in the roots of infected plants. For extraction of proteins from leaves, the Giavalisco method (Giavalisco et al., 2003) was best. The amount of protein in pea leaves decreased by age, and also following root infection by F. solani and M. hapla at six weeks post-inoculation. F. solani caused a decrease in abundance of isocitrate dehydrogenase, glycerate dehydrogenase, carbonic anhydrase, oxygen evolving enhancer protein 2 (OEE2), phosphoglycerate kinase, chloroplastic and one unknown protein. Some leaf proteins increased in abundance, and included heat shock-related proteins (HSP70) and two unknown proteins. Proteins that decreased in leaves following root infection by M. hapla

six week post-inoculation were RuBisCo large subunit, fructose bisphosphate aldolase 2, carbonic anhydrase, OEE1, OEE2, OEE3, RuBisCo small subunit and a 28KDa ribonucleoprotein. Some proteins increased in abundance, such as HSP70, fructose bisphosphate aldolase 1 and trypsin. In contrast to the decrease in protein observed at six weeks post-inoculation, the amount of protein increased in leaves three weeks after inoculation of roots with M. hapla. Root infection by both M. hapla and F. solani caused a reduction in leaf area, and also a reduction in fresh and dry weight of the shoot and root systems. The use of digital imaging and visible and infra-red light to study the changes in leaves was explored in this study. A clear difference was visible between leaves from healthy plants and between those from M. hapla and F. solani infected plants when imaged using a normal digital camera. In contrast, no clear differences were noticed between leaves of healthy, M. hapla and F. solani infected plants when using an infra-red camera with 850 nm wavelength light. This study indicates that specific proteins are altered in abundance in leaves following root infection, and provides the basis for future studies to develop rapid diagnostic tests.

Making Babies Jul 02 2021 Drawing on past speculation and present knowledge, a reproductive biologist conducts readers through the 40 weeks of

human pregnancy, explaining the complex biology behind human gestation in a clear and entertaining manner. 16 halftones.

Me n Mine CPM Science Combo Class 10 Jan 28 2021 The series is a comprehensive package containing chapter wise and topic wise guidelines with a vast variety of solved and unsolved exercises to help students practice what they have learnt. These books are strictly in accordance with the latest CBSE syllabus and covers all aspects of formative and summative assessments with the latest marking schemes as laid down by CBSE.

Experiments in Plant-hybridisation Jan 20 2023

Recipes for Science Oct 17 2022 Today, scientific literacy is an essential aspect of any undergraduate education. Recipes for Science responds to this need by providing an accessible introduction to the nature of science and scientific methods, reasoning, and concepts that is appropriate for any beginning college student. It is designed to be adaptable to a wide variety of different kinds of courses, such as introductions to scientific reasoning or critical thinking, philosophy of science, and science education. In any of these different uses, the book helps students better navigate our scientific, 21st-century world. Key Features Contemporary and historical examples of science from many fields of physical, life, and social sciences. Visual aids to clarify

and illustrate ideas. Text boxes to explore related topics. Plenty of exercises to ensure full student engagement and mastery of the information. Annotated 'Further Reading' sections at the end of each chapter. Final glossary with helpful definitions of key terms. A companion website with author-developed and crowdsourced materials, including syllabi for courses using this textbook, bibliography of additional resources and online materials, sharable PowerPoint presentations and lecture notes, and additional exercises and extended projects.

Molecular Signals in Plant-Microbe Communications Oct 13 2019 This book provides a comprehensive examination of the current knowledge available regarding signal molecules in plant-microbe communications. It also provides many experimental details regarding the characterization of the signal compounds and the genes affected by these molecules. Specific topics addressed include signal communication from bacteria to parasitic angiosperms, genes involved in signal perception and transduction, and the methods used to characterize many signal molecules. The book will prove useful not only in research in microbiology/plant pathology, molecular biology, and rhizosphere studies, but will serve as a tool in designing specific strategies to control harmful interactions while developing useful ones. This book is invaluable for

researchers in plant biotechnology.

Blame Your Parents May 12 2022 An introduction to inherited and learned traits, genes and DNA, and dominant and recessive genes.

Nitric Oxide Signaling in Plants Jun 20 2020 This Special Issue is a collection of research articles focused on the production and role of nitric oxide in plants. Nitric oxide is a crucial molecule used in the orchestration of cellular events in animals and plants. With a mixture of primary research papers and review articles written by some of the top researchers in the field, this work encompasses many aspects of this important and growing area of biochemistry.

Biology Made Simple Apr 18 2020 Take the frustration out of learning the science of life! Biology is the most fundamental science?yet it ' s one of the most complex. Now, Biology Made Simple is here to help science and non-science majors alike understand the science of life. Covering all the major themes of biology—including the cellular basis of life, the interaction of organisms, and the evolutionary process of all beings, Biology Made Simple combines concise explanations with the in-depth coverage needed to understand every aspect of this subject. Topics covered include: unifying themes of biology chemistry for the biologist the living cell DNA evolution genetics animal organization and homeostasis the systems of the body ecology Featuring more than

sixty illustrations and at-a-glance chapter reviews, Biology Made Simple will help you master this fascinating science.

Developments in Physiology, Biochemistry and Molecular Biology of Plants Sep 23 2020 The Volume 2 of the treatise on the Developments in Physiology, Biochemistry and Molecular Biology of Plants provides additional information in the crucial areas for making precise and applied research in the national context, on the one hand, and to unravel the science, on the other hand. In the earlier volume, the theme of publishing this needful treatise has been already made obvious. However, in view of the experiences and enormous advances in plant science research in the last few decades providing enough insight to scan vital research in this century has, almost certainly, enlightened the path to undertake necessary research projects for the benefit of mankind to which we are indispensably committed. We, the plant physiologists, biochemists, molecular biologists and plant nutritionists must be proud of our support to the world's farmers which has helped them make their achievement possible. In this century, up to 2025, the human population is expected to double and that is in truth a serious issue for us to trace out the limiting factors reducing yield potentiality of crop plants, on the one hand, and to understand the science of related processes at different levels,

alternatively. This principally necessitates for elucidation of dimensions of environmental stresses in relation to crop plants and their genotypes, optimally suitable to prevailing stress conditions. Of course, in the last few decades more emphasis was laid in this direction and remarkable progress has been made at the global scale to meet the challenges. Owing to this, distinguished scientists have been consistently reviewing and synchronizing the manifold research and signifying specific research of basic and applied implication in classified segment. It is delightful to mention that our attempt to sufficiently provide the essential and comprehensive literature to speed up important research in explicit areas of plant sciences has been once again tremendously satisfactory due to exceptional dedication of illustrious Indian scientists in the preparation of this momentous work. This treatise has been ordered with twelve excellent contributions in the form of review articles by thirty well- known Indian workers and academicians. The reviews are relevant to guide for theme oriented research as well as for scientific future planning of research projects. The four applicable sections related to: I. Sustainable Crop Productivity, II. Recent Advances in Plant Metabolism; III. Molecular Physiology of Plants; IV. Environmental Stresses in Plants consist of over twelve meaningful review articles as substantial chapteMoreover, as

promised, prominence has been given to compile extremely important aspects of Stress Physiology. The detailed choice of the contents of the various contributions has been left largely to the individual authoDoubtless, this book will be of immense help to scientists, teachers and students of almost all disciplines of Agriculture, Botany and Biotechnology.

Biology Mar 30 2021 Solomon/Berg/Martin, BIOLOGY -- often described as the best majors text for LEARNING biology -- is also a complete teaching program. The superbly integrated, inquiry-based learning system guides students through every chapter. Key concepts appear clearly at the beginning of each chapter and learning objectives start each section. Students then review the key points at the end of each section before moving on to the next one. At the end of the chapter, a specially focused Summary provides further reinforcement of the learning objectives. The ninth edition offers expanded integration of the text's three guiding themes of biology (evolution, information transfer, and energy for life) and innovative online and multimedia resources for students and instructors Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Biology Essentials For Dummies Mar 10 2022 Biology Essentials For Dummies (9781119589587) was

previously published as Biology Essentials For Dummies (9781118072677). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. Just the core concepts you need to score high in your biology course Biology Essentials For Dummies focuses on just the core concepts you need to succeed in an introductory biology course. From identifying the structures and functions of plants and animals to grasping the crucial discoveries in evolutionary, reproductive, and ecological biology, this easy-to-follow guide lets you skip the suffering and score high at exam time. Get down to basics — master the fundamentals, from understanding what biologists study to how living things are classified The chemistry of life — find out what you need to know about atoms, elements, molecules, compounds, acids, bases, and more Conquer and divide — discover the ins and outs of asexual and sexual reproduction, including cell division and DNA replication Jump into the gene pool — grasp how proteins make traits happen, and easily understand DNA transcription, RNA processing, translation, and gene regulation.

Heavy Metals Apr 30 2021 Fundamental societal changes resulted from the necessity of people to get organized in mining, transporting, processing, and circulating the heavy metals and their follow-up

products, which in consequence resulted in a differentiation of society into diversified professions and even societal strata. Heavy metals are highly demanded technological materials, which drive welfare and progress of the human society, and often play essential metabolic roles. However, their eminent toxicity challenges the field of chemistry, physics, engineering, cleaner production, electronics, metabolomics, botany, biotechnology, and microbiology in an interdisciplinary and cross-sectorial manner. Today, all these scientific disciplines are called to dedicate their efforts in a synergistic way to avoid exposure of heavy metals into the eco- and biosphere, to reliably monitor and quantify heavy metal contamination, and to foster the development of novel strategies to remediate damage caused by heavy metals.

Technical Bulletin May 20 2020

Reproduction and Cell Division Nov 25 2020 Why do some children look more like one parent than another? How can two parents with dark hair have a child with red hair? How can two dark-skinned parents have a baby that has light skin? Everyone has wondered these questions, but in order to understand such unexpected outcomes, an understanding of what Gregor Mendel discovered—the rules of genetics—is necessary. This book reproduces Mendel ' s original data that Mendel used to discover how traits are passed from one

generation to the next. In addition to the rules governing DNA inheritance, this book also examines how cells reproduce—all cells. Do bacterial cells reproduce the same way animal cells do? And when a person has a cut that needs to heal, do those cells reproduce the same way that sperm and egg cells are produced? How do all these cells keep track of how much DNA is needed in order to function properly? Data will be examined that explains how reproduction works for every cell on the planet.

Prentice Hall Science Feb 15 2020

Zero to Genetic Engineering Hero Apr 11 2022 Zero to Genetic Engineering Hero is made to provide you with a first glimpse of the inner-workings of a cell. It further focuses on skill-building for genetic engineering and the Biology-as-a-Technology mindset (BAAT). This book is designed and written for hands-on learners who have little knowledge of biology or genetic engineering. This book focuses on the reader mastering the necessary skills of genetic engineering while learning about cells and how they function. The goal of this book is to take you from no prior biology and genetic engineering knowledge toward a basic understanding of how a cell functions, and how they are engineered, all while building the skills needed to do so.

Life Cycle of a Pea Plant Sep 16 2022 This informative book explains the life cycle of a pea plant, including the

stages of development and changes it goes through to become an adult. The book also includes a table of contents, one infographic, informative sidebars, a "That ' s Amazing!" special feature, quiz questions, a glossary, additional resources, and an index. This Focus Readers title is at the Pioneer level, aligned to reading levels of grades 1–2 and interest levels of grades 1–3.

Boron in Soils and Plants Jun 01 2021 The economic significance of boron (B) in agriculture, horticulture, and forestry has been beyond dispute for several decades. Even in the last two decades, the areas where B deficiency limits plant production has grown with increased reports from China, south Asia and southeast Asia. The present volume is reflective of the growing awareness of the significance of low soil B with reports from Australia, Bangladesh, Brazil, north, central and southern China, India, Nepal, and the North West Frontier Province of Pakistan contained herein. Boron deficiency also continues to be a problem for crop yield and quality in areas where B deficiency has been known for some time, for example in Germany and the USA. The problem of low soil B is not limited to effects on field crop yield, with papers reporting on depressed wood yield and quality in timber trees (Lambert et al.), and depressed fruit quality (Dong et al. ; Smith et al. : Zude et al.) also appearing in the present volume. Globally, Shorrocks (1997)1 estimates that ?? tonnes of

B fertiliser is applied annually in agriculture. The economic benefits from the use of B fertiliser have not been quantified but are clearly enormous. Paradoxically, the clear economic imperatives for using B fertiliser on low B soils are not matched by a similar clarity of understanding of the role and functions of B in plants.

Heredity Nov 18 2022 Have you ever wondered what determines your hair color, eye color, or height? Written for students in grade 6, Heredity teaches students about heredity, genes, and traits. This 22-page book includes a glossary of bold-faced vocabulary words, reading activities, an index of terms, and an answer key.

Biology for AP ® Courses Nov 13 2019 Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board ' s AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

Biology: Concepts and Applications Dec 27 2020 In the new edition of BIOLOGY: CONCEPTS AND APPLICATIONS, authors Cecie Starr, Christine A. Evers, and Lisa Starr have partnered with the National Geographic Society to develop a text designed to engage and inspire. This trendsetting text introduces the key concepts of biology to non-biology majors using clear explanations and unparalleled visuals. While mastering core concepts, each chapter challenges students to question what they read and apply the concepts learned, providing students with the critical thinking skills and science knowledge they need in life. Renowned for its writing style the new edition is enhanced with exclusive content from the National Geographic Society, including over 200 new photos and illustrations. New People Matter sections in most chapters profile National Geographic Explorers and Grantees who are making significant contributions in their field, showing students how concepts in the chapter are being applied in their biological research. Each chapter concludes with an ‘ Application ’ section highlighting real-world uses of biology and helping students make connections to chapter content. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Life Science, Grades 6-7 Oct 25 2020

Agricultural Research Feb 09 2022

Wildflowers of the Florida Keys Oct 05 2021 Fully revised and updated, Wildflowers of the Florida Keys is the ultimate field guide to wildflowers, trees, and shrubs of the ecoregion that extends from Soldier Key to Key West. Whether you are looking for the endemic Big Pine Partridge Pea, the elusive Keys Passionflower, or the fragrant Princewood, this guide will aid in plant identification for botanists and novice enthusiasts alike. Packed with vivid color photos and informative text, this valuable reference will help you identify and appreciate the unique and varied flora of this lush, tropical region. INSIDE YOU ' LL FIND: Detailed descriptions and color photos of more than 350 plants An introduction to the habitats and ecology of the Florida Keys Plants arranged by color and family A glossary of botanical terms A primer on plant characteristics

Illustrated Plant Glossary Jan 16 2020 The Illustrated Plant Glossary is a comprehensive glossary of over 4000 terms related to plant sciences, featuring many superb colour illustrations to aid understanding. The topics covered in this glossary include anatomy, angiosperms, bryophytes, chemistry, cytology, family specific terms, ferns and fern allies, flowers, fruit, genetics, gymnosperms, habit and growth, habitat and ecology, indumentum, inflorescence, leaves, reproduction, roots, seeds, systematics and more. The

Illustrated Plant Glossary is a must-have reference for plant scientists, plant science teachers and students, libraries, horticulturalists, ecologists, gardeners and naturalists.

Salicylic Acid Induced Changes in Pea Seed Development and Germination Jul 14 2022 The phytohormone salicylic acid is found in plants with roles in photosynthesis, transpiration, ion uptake, transport, plant growth and development. It is involved in cell signaling, mediating in plant defense against pathogens. Because of the economic importance, the seed metabolism epecially the accumulation of storage products, became a subject of intensive investigation. The book offers comprehensive understanding of the bochemical changes induced by salicylic acid during seed development and germination of pea (Pisum sativum L.). The book focuses on the changes in Ascorbate peroxidase, acid phosphatase, a-amylase, sucrose synthase and protein contents during the seed development and grmination in pea. In additon to these biochemical studies, the yield and yield components has also been anlysed for salicylic acid treated pea plants. The experiments are well planned and the conclusions are based on data analysis. The current work on seed development and germination in pea will serve as a foundation for further studies in both key phases of pea life cycle. The book is specifically useful for the

researchers working/searhing new growth regulators.
Plant Hormones Nov 06 2021 Plant hormones play a crucial role in controlling the way in which plants grow and develop. While metabolism provides the power and building blocks for plant life, it is the hormones that regulate the speed of growth of the individual parts and integrate them to produce the form that we recognize as a plant. This book is a description of these natural chemicals: how they are synthesized and metabolized, how they act at both the organismal and molecular levels, how we measure them, a description of some of the roles they play in regulating plant growth and development, and the prospects for the genetic engineering of hormone levels or responses in crop plants. This is an updated revision of the third edition of the highly acclaimed text. Thirty-three chapters, including two totally new chapters plus four chapter updates, written by a group of fifty-five international experts, provide the latest information on Plant Hormones, particularly with reference to such new topics as signal transduction, brassinosteroids, responses to disease, and expansins. The book is not a conference proceedings but a selected collection of carefully integrated and illustrated reviews describing our knowledge of plant hormones and the experimental work that is the foundation of this information. The Revised 3rd Edition adds important information that has

emerged since the original publication of the 3rd edition. This includes information on the receptors for auxin, gibberellin, abscisic acid and jasmonates, in addition to new chapters on strigolactones, the branching hormones, and florigen, the flowering hormone.

Gregor Mendel Dec 19 2022 Presents the life of the geneticist, discussing the poverty of his childhood, his struggle to get an education, his life as a monk, his discovery of the laws of genetics, and the rediscovery of his work thirty-five years after its publication.

Plant-Environment Interaction Sep 04 2021 The increase in global population, urbanization and industrialization is resulting in the conversion of cultivated land into wasteland. Providing food from these limited resources to an ever-increasing population is one of the biggest challenges that present agriculturalists and plant scientists are facing. Environmental stresses make this situation even graver. Plants on which mankind is directly or indirectly dependent exhibit various mechanisms for their survival. Adaptability of the plants to changing environment is a matter of concern for plant biologists trying to reach the goal of food security. Despite the induction of several tolerance mechanisms, sensitive plants often fail to withstand these environmental extremes. Using new technological approaches has

become essential and imperative. Plant-Environment Interaction: Responses and Approaches to Mitigate Stress throws light on the changing environment and the sustainability of plants under these conditions. It contains the most up-to-date research and comprehensive detailed discussions in plant physiology, climate change, agronomy and forestry, sometimes from a molecular point of view, to convey in-depth understanding of the effects of environmental stress in plants, their responses to the environment, how to mitigate the negative effects and improve yield under stress. This edited volume is written by expert plant biologists from around the world, providing invaluable knowledge to graduate and undergraduate students in plant biochemistry, food chemistry, plant physiology, molecular biology, plant biotechnology, and environmental sciences. This book updates scientists and researchers with the very latest information and sustainable methods used for stress tolerance, which will also be of considerable interest to plant based companies and institutions concerned with the campaign of food security.

Genetics: The Study of Heredity Science Learning Guide Aug 23 2020 The Genetics: The Study of Heredity Student Learning Guide includes self-directed readings, easy-to-follow illustrated explanations, guiding questions, inquiry-based activities, a lab investigation,

key vocabulary review and assessment review questions, along with a post-test. It covers the following standards-aligned concepts: How Trait are Inherited; Chromosomes & Karyotypes; Gregor Mendel; Mendel?s Experiments; Dominant and Recessive Traits; Punnett Squares; Phenotypes & Genotypes; Codominance; and Making a Pedigree. Aligned to Next Generation Science Standards (NGSS) and other state standards.

Annual Report Aug 03 2021

Genetic Aspects of Plant Mineral Nutrition Jan 08 2022 The adaptation of desirable agricultural plants to infertile and problem soils is an increasingly important trategy for improving food supplies in many parts of the world. The plant breeding approach complements, and in some cases may replace agronomic practices such as the use of fertilizers and soil amendments to provide solutions which are economically and environmentally sustainable. The Symposium at which the papers in this volume were presented drew together workers in plant breeding, plant nutrition, physiology, biochemistry and molecular biology to discuss research on gene systems which affect the mineral nutrition of plants. Papers describe successes in plant breeding for problem soils as well as advances in understanding of mechanisms at the whole plant and cellular levels. Papers in the 'molecular' area point the way to the contribution which the new biology will make to this field in the future. The

reviews and research papers are grouped under five topics : Better plants for acid soils; Salinity tolerance; Efficiency of uptake and use of macronutrients; Efficiency for iron and micronutrients; Tolerance of heavy metals and boron.

Botany in a Day Jun 13 2022 Explains the patterns method of plant identification, describing seven key patterns for recognizing more than 45,000 species of plants, and includes an illustrated reference guide to plant families.

Crop Physiology Case Histories for Major Crops Mar 18 2020 Crop Physiology: Case Histories of Major Crops updates the physiology of broad-acre crops with a focus on the genetic, environmental and management drivers of development, capture and efficiency in the use of radiation, water and nutrients, the formation of yield and aspects of quality. These physiological process are presented in a double context of challenges and solutions. The challenges to increase plant-based food, fodder, fiber and energy against the backdrop of population increase, climate change, dietary choices and declining public funding for research and development in agriculture are unprecedented and urgent. The proximal technological solutions to these challenges are genetic improvement and agronomy. Hence, the premise of the book is that crop physiology is most valuable when it engages meaningfully with breeding

and agronomy. With contributions from 92 leading scientists from around the world, each chapter deals with a crop: maize, rice, wheat, barley, sorghum and oat; quinoa; soybean, field pea, chickpea, peanut, common bean, lentil, lupin and faba bean; sunflower and canola; potato, cassava, sugar beet and sugarcane; and cotton. A crop-based approach to crop physiology in a G x E x M context Captures the perspectives of global experts on 22 crops

Anthropology Dec 07 2021 Integrating historical, biological, archaeological, and applied approaches with ethnographic data from around the world, Anthropology: A Global Perspective is founded on four essential themes: the diversity of human societies; the similarities that tie all humans together; the interconnections between the sciences and humanities; and a new theme addressing psychological essentialism.

Current Trends in Microbial Biotechnology for Sustainable Agriculture Feb 26 2021 Microbial biotechnology is an emerging field with applications in a broad range of sectors involving food security, human nutrition, plant protection and overall basic research in the agricultural sciences. The environment has been sustaining the burden of mankind from time immemorial, and our indiscriminate use of its resources has led to the degradation of the climate, loss of soil fertility, and the need for sustainable strategies. The

major focus in the coming decades will be on achieving a green and clean environment by utilizing soil and plant-associated beneficial microbial communities. Plant-microbe interactions include the association of microbes with plant systems: epiphytic, endophytic and rhizospheric. The microbes associated with plant ecosystems play an important role in plant growth, development, and soil health. Moreover, soil and plant microbiomes help to promote plant growth, either directly or indirectly by means of plant growth-promoting mechanisms, e.g. the release of plant growth regulators; solubilization of phosphorus, potassium and zinc; biological nitrogen fixation; or by producing siderophores, ammonia, HCN and other secondary metabolites. These beneficial microbial communities represent a novel and promising solution for agro-environmental sustainability by providing biofertilizers, bioprotectants, and biostimulants, in addition to mitigating various types of abiotic stress in plants. This book focuses on plant-microbe interactions; the biodiversity of soil and plant microbiomes; and their role in plant growth and soil health. Accordingly, it will be immensely useful to readers working in the biological sciences, especially microbiologists, biochemists and microbial biotechnologists.

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