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Anemones and fish, ants and acacia trees, fungus and trees, buffaloes and oxpeckers--each of these unlikely duos is an

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inimitable partnership in which the species' coexistence is mutually beneficial. More specifically, they represent examples of defensive mutualism, when

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one species receives protection against predators or parasites in exchange for offering shelter or food to its partner species. Explores the Diverse Range of

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Defensive Mutualisms Involving Microbial Symbionts The past 20 years, since this phenomenon first began receiving attention, have been marked by a deluge of

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research in a variety of organism kingdoms and much has been discovered about this intriguing behavior. Defensive Mutualism in Microbial Symbiosis includes basic ecological

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and biological information on defensive mutualisms, explores how they function, and evaluates how they have evolved. It also looks at the implications of symbiosis

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defensive compounds as a new frontier in bioexploration for drug and natural product discovery--the first book to explore this possibility. Chapters

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***Written by Field
Authorities The book
expands the concept of
defensive mutualisms to
evaluate defense against
environmental abiotic and
biotic stresses.***

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Addressing the topic of defensive mutualisms in microbial symbiosis across this wide spectrum, it includes chapters on defensive mutualistic associations involving

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multiple kingdoms of organisms in terrestrial and aquatic ecosystems--plant, animal, fungi, bacteria, and protozoans. Defensive Mutualism in Microbial

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Symbiosis unifies scattered findings into a single compendium, providing a valuable reference for field researchers and those in academia to assimilate and

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acquire a knowledgeable perspective on defensive mutualism, particularly those involving microbial partners.

The fourth edition of Soil Microbiology, Ecology and

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Biochemistry updates this widely used reference as the study and understanding of soil biota, their function, and the dynamics of soil organic matter has been

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revolutionized by molecular and instrumental techniques, and information technology. Knowledge of soil microbiology, ecology and biochemistry is central to

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our understanding of organisms and their processes and interactions with their environment. In a time of great global change and increased emphasis on biodiversity

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and food security, soil microbiology and ecology has become an increasingly important topic. Revised by a group of world-renowned authors in many institutions and

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disciplines, this work relates the breakthroughs in knowledge in this important field to its history as well as future applications. The new edition provides readable,

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practical, impactful information for its many applied and fundamental disciplines. Professionals turn to this text as a reference for fundamental knowledge in their field

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or to inform management practices. New section on "Methods in Studying Soil Organic Matter Formation and Nutrient Dynamics" to balance the two successful chapters on microbial and

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physiological methodology
Includes expanded
information on soil
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organisms involved in
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integration for an ever-widening audience in his field Integrated concepts related to soil biota, diversity, and function allow readers in multiple disciplines to understand

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the complex soil biota and their function

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century illustrated by the discovery of more than fifty novel toxins (many of them identified through genome screening). The establishment of the three-dimensional crystal

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structure of more than 20 toxins during the same period offers deeper knowledge of structure-activity relationships and provides a framework to understand how toxins

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recognize receptors, penetrate membranes and interact with and modify intracellular substrates. Edited by two of the most highly regarded experts in the field from the

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dedicated to coverage of
historical and general
aspects of toxinology
Includes the major toxins
of both basic and clinical***

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interest are described in depth Details applied aspects of toxins such as therapy, vaccinology, and toolkits in cell biology Evolutionary and functional aspects of

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bacterial toxins evaluated and summarized Toxin applications in cell biology presented Therapy (cancer therapy, dystonias) discussed Vaccines (native and

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genetically engineered vaccines) featured Toxins discussed as biological weapons, comprising chapters on anthrax, diphtheria, ricin etc.
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Molecular Genetics of
Bacteria
Gammaproteobacteria
Transcription Regulation
in Prokaryotes
Recent determination of genome***

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sequences for a wide range of bacteria has made in-depth knowledge of prokaryotic metabolic function essential in order to give biochemical, physiological, and ecological meaning to the genomic

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information. Clearly describing the important metabolic processes that occur in prokaryotes under different conditions and in different environments, this advanced text provides an overview of the key

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cellular processes that determine bacterial roles in the environment, biotechnology, and human health. Prokaryotic structure is described as well as the means by which nutrients are transported into cells across

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membranes. Glucose metabolism through glycolysis and the TCA cycle are discussed, as well as other trophic variations found in prokaryotes, including the use of organic compounds, anaerobic

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mechanisms used under starvation conditions.

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interest to microbiologists, these include the structure, physiology, and biochemistry of bacteria, as well as cell-cell signaling, microbial development, and biofilm formation. The notes at the end

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of each chapter provide information on the topics discussed in the chapter.
The Physiology and Biochemistry of Prokaryotes
Human Microbiology
Encyclopedia of Parasitology: A-

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M

Mechanisms of Eukaryotic DNA Recombination is a collection of papers that discusses advances in eukaryotic genetic

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recombination. Papers address issues in eukaryotic genetic recombination, particularly DNA integration in mammalian genomes, genetic recombination in Drosophila or

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Caenorhabditis; the manipulation of the mouse genome; genome organization; and genetic recombination in protozoa. One paper discusses chromatid interactions

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during intrachromosomal recombination in mammalian cells, namely, intrachromatid and sister chromatid. Another paper analyzes the implication for chromosomal recombination

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and gene targeting; results on extrachromosomal recombination show that circles are inefficient substrates for recombination even if only one of two substrates in an

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intermolecular reaction is circular. One author discusses the genetics and molecular biology of recombination, citing the work of Watson and Crick, stating that crossing-over

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occurs between genes (not within them). He also explains that the formation and resolution of recombination intermediaries depend on enzyme or other proteins.

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This book will prove invaluable to cellular biologists, microbiologists, and researchers engaged in genetics and general biology.

Molecular Biology, Second

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Edition, examines the basic concepts of molecular biology while incorporating primary literature from today's leading researchers. This updated edition includes Focuses on

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projects: human, Neanderthal, giant panda, and barley. Coverage of genome annotation emphasizes genome-wide RNA mapping, with CRISPR-Cas 9 and GWAS methods of determining gene function covered. The knowledge gained from these techniques forms the basis of the three chapters that describe the three

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human evolution, and using population genomics to advance plant breeding. Established methods of molecular biology are included if they are still relevant today and there is always an explanation as to why the method is still important. Each chapter has a set of short-answer questions, in-depth problems, and

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Microbiology Actinobacteria Firmicutes
Alphaproteobacteria and
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Gammaproteobacteria
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Epsilonproteobacteria Other Major
Lineages of Bacteria and the Archaea*

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The second edition of this book on lipids, lipoprotein and membrane biochemistry has two major objectives - to provide an advanced textbook for students in these areas of biochemistry, and to summarise the field for scientists pursuing research in these and related fields. Since the first edition of this book was published in 1985

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the emphasis on research in the area of lipid and membrane biochemistry has evolved in new directions. Consequently, the second edition has been modified to include four chapters on lipoproteins. Moreover, the other chapters have been extensively updated and revised so that additional material covering the areas of

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cell signalling by lipids, the assembly of lipids and proteins into membranes, and the increasing use of molecular biological techniques for research in the areas of lipid, lipoprotein and membrane biochemistry have been included. Each chapter of the textbook is written by an expert in the field, but the chapters are

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not simply reviews of current literature. Rather, they are written as current, readable summaries of these areas of research which should be readily understandable to students and researchers who have a basic knowledge of general biochemistry. The authors were selected for their abilities both as

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researchers and as communicators. In addition, the editors have carefully coordinated the chapters so that there is little overlap, yet extensive cross-referencing among chapters.

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Deltaproteobacteria and

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provides an
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organisms. The book is organized into four parts. Part I covers the physical nature of prokaryotic phytopathogens as well as how they are presently classified, the limitation

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of this artificial classification, and the biology of the pathogen's invasion of plants. Part II presents conceptual hypotheses for the formation of the

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agricorpus
(pathogen/host complex as a biological unit) and how this association may be detrimental or beneficial to both members of the unit.

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Other topics include the basic determinant of evolutionary change (the gene), and the evolution of vectors for dispersal of pathogens. Part III elaborates on the

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interaction at the plant/environment/pathogen interface (the plant surface). It presents information on the interaction of prokaryotes in the rhizosphere and

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phyllosphere, and how this interaction developed. Part IV shows how prokaryotes affect their hosts once infection has been established. This information is

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***presented in sequence
progressing from the
disease-causing
mechanisms of the
facultative endophytic
pathogens to those of the
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fundamental concepts to
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and molecular microbiology, but also for senior scientists who have research interests in prokaryotic transcription regulation
2 Cell Biology International'a superb, compact yet comprehensive, treatise on the regulation of gene

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AslibThis text is written for advanced students with a basic background in molecular biology and provides a clear and concise summary of the flow of information from genes to proteins in simple prokaryotic cells. Transcription regulation is

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text is devoted to prokaryotic transcription and is perfect for use on molecular biology, microbiology and technology courses.

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