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Brock Biology of Microorganisms Brock Biology Of microorganisms Brock Biology of Microorganisms Brock Biology of Microorganisms, Global Edition Brock Biology of Microorganisms Brock Biology of Microorganisms, Books a la Carte Edition Brock Biology of Microorganisms Biology of Microorganisms on Grapes, in Must and in Wine Biology of Microorganisms Biology of Microorganisms Brock Biology of Microorganisms Biology of Microorganisms Brock Biology of Microorganisms Brock Biology of Microorganisms, Books a la Carte Edition Biology of Microorganisms on Grapes, in Must and in Wine Biology of Microorganisms The Social Biology of Microbial Communities Instructor's Manual & Test Item File, Brock Biology of Microorganisms, Ninth Edition, Madigan, Martinko, Parker Microbiology of Atypical Environments Books a la Carte for Brock Biology of Microorganisms Advances in Understanding the Biology of Halophilic Microorganisms Comparative Ecology of Microorganisms and Macroorganisms Biology of Microorganisms Biology of Anaerobic Microorganisms Eukaryotic Microbes Microorganisms and Fermentation of Traditional Foods Brock Biology of Microorganisms GE. RNA Biology of Microorganisms Microbiology: Laboratory Theory and Application Atlas of Oral Microbiology: From Healthy Microflora to Disease ISE Microbiology: A Systems Approach Microbiology Microbes Microbial Ecology Philosophy of Microbiology A Closer Look at Biology, Microbiology, and the Cell Fundamentals of Microbiology Microbial Systems Biology Rhizosphere Biology: Interactions Between Microbes and Plants

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. Formalizing study of the natural world may seem like a daunting task considering the sheer breadth and variety of living things that inhabit the planet. From the microscopic organisms in the world's most remote locations to those in the human body, evidence of the intricate structures and mechanisms that enable life are ubiquitous and new discoveries constantly reveal new possibilities that demand to be examined. This volume surveys the multitude of subjects that comprise the field of biology and includes an overview of the development of biology, microbiology, and cell theory. "Teaches the principles of modern microbiology. Includes both historical background and foundational

aspects of microbiology, as well as a robust and modern treatment of microbiology with concrete examples of the microbial world"-- Designed for major and non-major students taking an introductory level microbiology lab course. Whether your course caters to pre-health professional students, microbiology majors or pre-med students, everything they need for a thorough introduction to the subject of microbiology is right here. Fundamentals of Microbiology, Twelfth Edition is designed for the introductory microbiology course with an emphasis in the health sciences. Microbiology of Atypical Environments, Volume 45, presents a comprehensive reference text on the microbiological methods used to research the basic biology of microorganism in harsh, stressful and sometimes atypical environments (e.g. arctic ice, space stations, extraterrestrial environments, hot springs and magnetic environments). Chapters in this release include Biofilms in space, Methods for studying the survival of microorganisms in extraterrestrial environments, Persistence of Fungi in Atypical (Closed) Environments Based on Evidence from the International Space Station (ISS): Distribution and Significance to Human health, Methods for visualizing microorganisms in Icy environments, Measuring microbial metabolism at surface-air interfaces and nuclear waste management, amongst others. Contains both established and emerging methods Provides excellent reference lists on the topics covered NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value; this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of MyLab(TM) and Mastering(TM) platforms exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a Course ID, provided by your instructor, to register for and use MyLab and Mastering products. For courses in General Microbiology. A streamlined approach to master microbiology Brock Biology of Microorganisms is the leading majors microbiology text on the market. It sets the standard for impeccable scholarship, accuracy, and strong coverage of ecology, evolution, and metabolism. The 15th edition seamlessly integrates the most current science, paying particular attention to molecular biology and the genomic revolution. It introduces a flexible, more streamlined organization with a consistent level of detail and comprehensive art program. Brock Biology of Microorganisms helps students quickly master concepts, both in and outside the classroom, through personalized learning, engaging activities to improve problem solving skills, and superior art and animations with Mastering(TM) Microbiology. Also available with Mastering Microbiology. Mastering(TM) Microbiology is an online homework, tutorial, and assessment

product designed to improve results by helping students quickly master concepts. Students benefit from self-paced tutorials that feature personalized wrong-answer feedback and hints that emulate the office-hour experience and help keep students on track. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts. If you would like to purchase both the loose-leaf version of the text and MyLab and Mastering, search for: 013460394X / 9780134603940 Brock Biology of Microorganisms, Books a la Carte Plus MasteringMicrobiology with Pearson eText -- Access Card Package This package consists of: 0134602285 / 9780134602288 MasteringMicrobiology with Pearson eText -- ValuePack Access Card -- for Brock Biology of Microorganisms 0134626109 / 9780134626109 Brock Biology of Microorganisms, Books a la Carte Edition Resource added for the Microbiology "10-806-197" courses. This book covers the ecological activities of microbes in the biosphere with an emphasis on microbial interactions within their environments and communities In thirteen concise and timely chapters, Microbial Ecology presents a broad overview of this rapidly growing field, explaining the basic principles in an easy-to-follow manner. Using an integrative approach, it comprehensively covers traditional issues in ecology as well as cutting-edge content at the intersection of ecology, microbiology, environmental science and engineering, and molecular biology. Examining the microbial characteristics that enable microbes to grow in different environments, the book provides insights into relevant methodologies for characterization of microorganisms in the environment. The authors draw upon their extensive experience in teaching microbiology to address the latest hot-button topics in the field, such as: Ecology of microorganisms in natural and engineered environments Advances in molecular-based understanding of microbial phylogeny and interactions Microbially driven biogeochemical processes and interactions among microbial populations and communities Microbial activities in extreme or unusual environments Ecological studies pertaining to animal, plant, and insect microbiology Microbial processes and interactions associated with environmental pollution Designed for use in teaching, Microbial Ecology offers numerous special features to aid both students and instructors, including: Information boxes that highlight key microbial ecology issues "Microbial Spotlights" that focus on how prominent microbial ecologists became interested in microbial ecology Examples that illustrate the role of bacterial interaction with humans Exercises to promote critical thinking Selected reading lists Chapter summaries and review questions for class discussion Various microbial interactions and community structures are presented through examples and illustrations. Also included are mini case studies that address activities of

microorganisms in specific environments, as well as a glossary and key words. All these features make this an ideal textbook for graduate or upper-level undergraduate students in biology, microbiology, ecology, or environmental science. It also serves as a highly useful reference for scientists and environmental professionals. PowerPoint slides of figures from the book are available for download at: [ftp://ftp.wiley.com/public/sci\\_tech\\_med/microbial\\_ecology](ftp://ftp.wiley.com/public/sci_tech_med/microbial_ecology)

The second edition of the book begins with the description of the diversity of wine-related microorganisms, followed by an outline of their primary and energy metabolism. Subsequently, important aspects of the secondary metabolism are dealt with, since these activities have an impact on wine quality and off-flavour formation. Then chapters about stimulating and inhibitory growth factors follow. This knowledge is helpful for the growth management of different microbial species. The next chapters focus on the application of the consolidated findings of molecular biology and regulation the functioning of regulatory cellular networks, leading to a better understanding of the phenotypic behaviour of the microbes in general and especially of the starter cultures as well as of stimulatory and inhibitory cell-cell interactions during wine making. In the last part of the book, a compilation of modern methods complete the understanding of microbial processes during the conversion of must to wine. This broad range of topics about the biology of the microbes involved in the vinification process could be provided in one book only because of the input of many experts from different wine-growing countries. For courses in General Microbiology. A streamlined approach to master microbiology Brock Biology of Microorganisms is the leading majors microbiology text on the market. It sets the standard for impeccable scholarship, accuracy, and strong coverage of ecology, evolution, and metabolism. The 15th edition seamlessly integrates the most current science, paying particular attention to molecular biology and the genomic revolution. It introduces a flexible, more streamlined organization with a consistent level of detail and comprehensive art program. Brock Biology of Microorganisms helps students quickly master concepts, both in and outside the classroom, through personalized learning, engaging activities to improve problem solving skills, and superior art and animations with Mastering(tm) Microbiology. Also available with Mastering Microbiology. Mastering(tm) Microbiology is an online homework, tutorial, and assessment product designed to improve results by helping students quickly master concepts. Students benefit from self-paced tutorials that feature personalized wrong-answer feedback and hints that emulate the office-hour experience and help keep students on track. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts. Students, if interested in purchasing this title with Mastering Microbiology, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. Note: You are purchasing a standalone product; Mastering(tm) Microbiology does not come

packaged with this content. Students, if interested in purchasing this title with Mastering Microbiology, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and Mastering Microbiology, search for: 0134268660 / 9780134268668 Brock Biology of Microorganisms Plus Mastering Microbiology with eText -- Access Card Package, 15/e Package consists of: 0134261925 / 9780134261928 Brock Biology of Microorganisms 0134603974 / 9780134603971 Mastering Microbiology with Pearson eText -- Standalone Access Card -- for Brock Biology of Microorganisms, 15/e MasteringMicrobiology should only be purchased when required by an instructor. An introduction to microbiology for biology and microbiology majors. Helping Today's Students Learn Microbiology The authoritative #1 textbook for introductory majors microbiology, Brock Biology of Microorganisms continues to set the standard for impeccable scholarship, accuracy, and outstanding illustrations and photos. This book for biology, microbiology, and other science majors balances cutting edge research with the concepts essential for understanding the field of microbiology, including strong coverage of ecology, evolution, and metabolism. The Fourteenth Edition seamlessly integrates the most current science, paying particular attention to molecular biology and how the genomic revolution has changed and is changing the field. This edition offers a streamlined, modern organization with a consistent level of detail and updated, visually compelling art program. Brock Biology of Microorganisms includes MasteringMicrobiology®, an online homework, tutorial, and assessment product designed to improve results by helping students quickly master concepts both in and outside the classroom. The Fourteenth Edition and MasteringMicrobiology will provide a better teaching and learning experience—for you and your students. Brock Biology of Microorganisms Plus MasteringMicrobiology is designed to: Personalize learning: MasteringMicrobiology coaches students through the toughest microbiology topics. Engaging tools help students visualize, practice, and understand crucial content. Focus on today's learners: Research-based activities, case studies, and engaging activities improve students' ability to solve problems and make connections between concepts. Teach tough topics with superior art and animations: Outstanding animations, illustrations, and micrographs enable students to understand difficult microbiology concepts and processes. Note: You are purchasing a standalone product; MasteringMicrobiology does not come packaged with this content. MasteringMicrobiology is not a self-paced technology and should only be purchased when required by an instructor. The first volume in a series covering the latest information in microbiology, biotechnology, and food safety aspects, this book is divided into two parts. Part I focuses on fermentation of traditional foods and beverages, such as cereal and milk products from the Orient, Africa, Latin America, and other areas. Part two addresses fermentation biolog This book is designed to be

a long term career reference. The chapters present modern procedures. This is a how-to-book with a difference. These chapters: - reveal the background information about working with salt loving organisms, - are loaded with information about how experiments are conducted under high salt, - provide information about analyses that work under these conditions and those that may not, - present a wide range of details from laboratory designs to equipment used and even to simple anecdotal hints that can only come from experience. Microbiological training focuses largely on the growth, the handling and the study of the microbes associated with humans and animals. Yet the largest proportion of the Earth's microbiota lives in saline environments such as the Oceans, saline deserts and terminal hypersaline environments. This need for salt can be intimidating for those interested in entering the field or for those interested in understanding how such research is accomplished. "Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website. An accessible introduction to the world of microbes—from basic microbe biology through industrial applications Microbes affect our lives in a variety of ways—playing an important role in our health, food, agriculture, and environment. While some microbes are beneficial, others are pathogenic or opportunistic. Microbes: Concepts and Applications describes basic microbe biology and identification and shows not only how they operate in the subfields of medicine, biotechnology, environmental science, bioengineering, agriculture, and food science, but how they can be harnessed as a resource. It provides readers with a solid grasp of etiologic agents, pathogenic processes, epidemiology, and the role of microbes as therapeutic agents. Placing a major emphasis on omics technology, the book covers recent developments in the arena of microbes and discusses their role in industry and agriculture, as well as in related fields such as immunology, cell biology, and molecular biology. It offers complete discussions of the major bacterial, viral, fungal, and parasitic pathogens; includes information on emerging infectious diseases, antibiotic resistance, and bioterrorism; and talks about the future challenges in microbiology. The most complete treatment of microbial biology available, Microbes features eye-opening chapters on: Human and Microbial World Gene Technology: Application and Techniques Molecular Diagnostic and Medical Microbiology Identification and Classification of Microbes

Diversity of Microorganisms Microbes in Agriculture Microbes as a Tool for Industry and Research Complete with charts and figures, this book is an invaluable textbook for university teachers, students, researchers, and people everywhere who care about microorganisms. The procaryotic cell. Microbial energetics. Biosynthesis and nutrition. The autotrophic way of life. Growth, Macromolecular synthesis, and differentiation. The microorganism in its environment. Viruses. Genetics of procaryotes. Genetics of eucaryotic microorganisms. Microbial interactions and symbiotic relationships. Host-parasite relationships. Microbial evolution and taxonomy. Representative procaryotic groups. Representative eucaryotic groups. The ancient beverage wine is the result of the fermentation of grape must. This naturally and fairly stable product has been and is being used by many human societies as a common or enjoyable beverage, as an important means to improve the quality of drinking water in historical times, as a therapeutic agent, and as a religious symbol. During the last centuries, wine has become an object of scientific interest. In this respect different periods may be observed. At first, simple observations were recorded, and subsequently, the chemical basis and the involvement of microorganisms were elucidated. At a later stage, the scientific work led to the analysis of the many minor and trace compounds in wine, the detection and understanding of the biochemical reactions and processes, the diversity of microorganisms involved, and the range of their various activities. In recent years, the focus shifted to the genetic basis of the microorganisms and the molecular aspects of the cells, including metabolism, membrane transport, and regulation. These different stages of wine research were determined by the scientific methods that were known and available at the respective time. The recent "molecular" approach is based on the analysis of the genetic code and has led to significant results that were not even imaginable a few decades ago. This new wealth of information is being presented in the *Biology of Microorganisms on Grapes, in Must, and in Wine*. This book is the second edition of *Atlas of Oral Microbiology: From Healthy Microflora to Disease* (ISBN 978-0-12-802234-4), with two new features: we add about 60 pictures of 14 newly isolated microbes from human dental plaque, at the same time, we re-organize the content of this book and provide more research progress about the oral microbiome bank of China, the invasion of oral microbiota into the gut, and the relationships between Oral Microflora and Human Diseases. This book is keeping up with the advanced edge of the international research field of oral microbiology. It innovatively gives us a complete description of the oral microbial systems according to different oral ecosystems. It collects a large number of oral microbial pictures, including cultural pictures, colonies photos, and electron microscopy photos. It is by far the most abundant oral microbiology atlas consists of the largest number of pictures. In the meantime, it also described in detail a variety of experimental techniques, including microbiological isolation, culture, and identification. It is an atlas with strong practical function. The editors and writers of

this book have long been engaged in teaching and research work in oral microbiology and oral microecology. This book deserves a broad audience, and it will meet the needs of researchers, clinicians, teachers, and students major in biology, dental medicine, basic medicine, or clinical medicine. It can also be used to facilitate teaching and international academic exchanges. *Eukaryotic Microbes* presents chapters hand-selected by the editor of the *Encyclopedia of Microbiology*, updated whenever possible by their original authors to include key developments made since their initial publication. The book provides an overview of the main groups of eukaryotic microbes and presents classic and cutting-edge research on content relating to fungi and protists, including chapters on yeasts, algal blooms, lichens, and intestinal protozoa. This concise and affordable book is an essential reference for students and researchers in microbiology, mycology, immunology, environmental sciences, and biotechnology. Written by recognized authorities in the field Includes all major groups of eukaryotic microbes, including protists, fungi, and microalgae Covers material pertinent to a wide range of students, researchers, and technicians in the field The authoritative #1 textbook for introductory majors microbiology, *Brock Biology of Microorganisms* continues to set the standard for impeccable scholarship, accuracy, and outstanding illustrations and photos. This book for biology, microbiology, and other science majors balances cutting edge research with the concepts essential for understanding the field of microbiology. In addition to a new co-author, David Stahl, who brings coverage of cutting edge microbial ecology research and symbiosis to a brand new chapter (Chapter 25), a completely revised overview chapter on Immunology (Chapter 28), a new "Big Ideas" section at the end of each chapter, and a wealth of new photos and art make the Thirteenth Edition better than ever. *Brock Biology of Microorganisms* speaks to today's students while maintaining the depth and precision science majors need. This second edition textbook offers an expanded conceptual synthesis of microbial ecology with plant and animal ecology. Drawing on examples from the biology of microorganisms and macroorganisms, this textbook provides a much-needed interdisciplinary approach to ecology. The focus is the individual organism and comparisons are made along six axes: genetic variation, nutritional mode, size, growth, life cycle, and influence of the environment. When it was published in 1991, the first edition of *Comparative Ecology of Microorganisms and Macroorganisms* was unique in its attempt to clearly compare fundamental ecology across the gamut of size. The explosion of molecular biology and the application of its techniques to microbiology and organismal biology have particularly demonstrated the need for interdisciplinary understanding. This updated and expanded edition remains unique. It treats the same topics at greater depth and includes an exhaustive compilation of both the most recent relevant literature in microbial ecology and plant/animal ecology, as well as the early research papers that shaped the concepts and theories discussed. Among the completely

updated topics in the book are phylogenetic systematics, search algorithms and optimal foraging theory, comparative metabolism, the origins of life and evolution of multicellularity, and the evolution of life cycles. From Reviews of the First Edition: "John Andrews has succeeded admirably in building a bridge that is accessible to all ecologists." -*Ecology* "I recommend this book to all ecologists. It is a thoughtful attempt to integrate ideas from, and develop common themes for, two fields of ecology that should not have become fragmented." -*American Scientist* "Such a synthesis is long past due, and it is shameful that ecologists (both big and little) have been so parochial." -*The Quarterly Review of Biology* An introduction to microbiology for biology and microbiology majors. Helping Today's Students Learn Microbiology The authoritative #1 textbook for introductory majors microbiology, *Brock Biology of Microorganisms* continues to set the standard for impeccable scholarship, accuracy, and outstanding illustrations and photos. This book for biology, microbiology, and other science majors balances cutting edge research with the concepts essential for understanding the field of microbiology, including strong coverage of ecology, evolution, and metabolism. The Fourteenth Edition seamlessly integrates. Systems biology is the study of interactions between assorted components of biological systems with the aim of acquiring new insights into how organisms function and respond to different stimuli. Although more and more efforts are being directed toward examining systems biology in complex multicellular organisms, the bulk of system-level analyses conducted to date have focused on the biology of microbes. In, *Microbial Systems Biology: Methods and Protocols* expert researchers in the field describe the utility and attributes of different tools (both experimental and computational) that are used for studying microbial systems. 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 key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Microbial Systems Biology: Methods and Protocols* introduces and aids scientists in using the various tools that are currently available for analysis, modification and utilization of microbial organisms. Beginning with the germ theory of disease in the 19th century and extending through most of the 20th century, microbes were believed to live their lives as solitary, unicellular, disease-causing organisms. This perception stemmed from the focus of most investigators on organisms that could be grown in the laboratory as cellular monocultures, often dispersed in liquid, and under ambient conditions of temperature, lighting, and humidity. Most such inquiries were designed to identify microbial pathogens by satisfying Koch's postulates.<sup>3</sup> This pathogen-centric approach to the study of microorganisms produced a metaphorical "war" against these microbial invaders waged with antibiotic therapies, while simultaneously obscuring the dynamic relationships that exist among and between host organisms and their associated microorganisms-only a tiny fraction of which

act as pathogens. Despite their obvious importance, very little is actually known about the processes and factors that influence the assembly, function, and stability of microbial communities. Gaining this knowledge will require a seismic shift away from the study of individual microbes in isolation to inquiries into the nature of diverse and often complex microbial communities, the forces that shape them, and their relationships with other communities and organisms, including their multicellular hosts. On March 6 and 7, 2012, the Institute of Medicine's (IOM's) Forum on Microbial Threats hosted a public workshop to explore the emerging science of the "social biology" of microbial communities. Workshop presentations and discussions embraced a wide spectrum of topics, experimental systems, and theoretical perspectives representative of the current, multifaceted exploration of the microbial frontier. Participants discussed ecological, evolutionary, and genetic factors contributing to the assembly, function, and stability of microbial communities; how microbial communities adapt and respond to environmental stimuli; theoretical and experimental approaches to advance this nascent field; and potential applications of knowledge gained from the study of microbial communities for the improvement of human, animal, plant, and ecosystem health and toward a deeper understanding of microbial diversity and evolution. The Social Biology of Microbial Communities: Workshop Summary further explains the happenings of the workshop. Biology of Microorganisms Laboratory Manual A text for introductory microbiology. It balances the most current coverage with the major classical and contemporary concepts essential for understanding microbiology. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The authoritative #1 textbook for introductory majors microbiology, Brock Biology of Microorganisms continues to set the standard for impeccable scholarship, accuracy, and outstanding illustrations and photos. This book for biology, microbiology, and other science majors balances cutting edge research with the concepts essential for understanding the field of microbiology. In addition to a new co-author, David Stahl, who brings coverage of cutting edge microbial ecology research and symbiosis to a brand new chapter (Chapter 25), a completely revised overview chapter on Immunology (Chapter 28), a new "Big Ideas" section at the end of each

chapter, and a wealth of new photos and art make the Thirteenth Edition better than ever. Brock Biology of Microorganisms speaks to today's students while maintaining the depth and precision science majors need. This edition features the exact same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value for your students-this format costs 35% less than a new textbook. The authoritative #1 textbook for introductory majors microbiology, Brock Biology of Microorganisms continues to set the standard for impeccable scholarship, accuracy, and outstanding illustrations and photos. This book for biology, microbiology, and other science majors balances cutting edge research with the concepts essential for understanding the field of microbiology. In addition to a new co-author, David Stahl, who brings coverage of cutting edge microbial ecology research and symbiosis to a brand new chapter (Chapter 25), a completely revised overview chapter on Immunology (Chapter 28), a new "Big Ideas" section at the end of each chapter, and a wealth of new photos and art make the Thirteenth Edition better than ever. Brock Biology of Microorganisms speaks to today's students while maintaining the depth and precision science majors need. This package contains: Books a la Carte for Brock Biology of Microorganisms, Thirteenth Edition Offers a comprehensive treatment of anaerobes, a common and important group of microbes which thrive where oxygen is absent. Details significant aspects of anaerobe physiology, especially those relevant to geochemical cycles and biodegradation. Also included are discussions of their habitats and the characteristics of key groups of anaerobes. Describes the expansions of microbiology; it's methods, from traditional microscopy and laboratory culture to the latest genomic analysis. -- Microbes and microbiology are seldom encountered in philosophical accounts of the life sciences. Although microbiology is a well-established science and microbes the basis of life on this planet, neither the organisms nor the science have been seen as philosophically significant. This book will change that. It fills a major gap in the philosophy of biology by examining central philosophical issues in microbiology. Topics are drawn from evolutionary microbiology, microbial ecology, and microbial classification. These discussions are aimed at philosophers and scientists who wish to gain insight into the basic philosophical issues of microbiology.

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