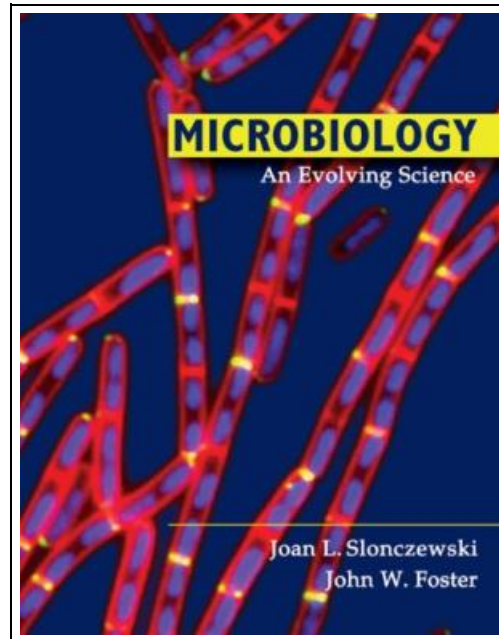


Microbiology: An Evolving Science



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Reviews

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MICROBIOLOGY: AN EVOLVING SCIENCE



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W. W. Norton & Company, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PART I: THE MICROBIAL CELL Chapter 1. Microbial Life: Origin and Discovery: Presents the history of microbial discovery from ancient times up to the present day, including twentieth-century discoverers of gene cloning, the archaeal domain, and the ubiquity of horizontal gene transfer. Chapter 2. Observing the Microbial Cell: Presents microscopy as the key tool of microbial discovery, from an in-depth treatment of light microscopy and electron microscopy to examples of confocal fluorescence and scanning probe microscopy. In-depth coverage of microscopy helps the student evaluate models of the cell presented in Part II, Genes and Genomes, and Part III, Metabolism and Biochemistry. Chapter 3. Cell Structure and Function: Emphasizes the functional unity of the cell, from envelope to nucleoid. Coverage includes envelope diversity (Gram positive, Gram negative, mycobacteria, and archaea), up-to-date models of the prokaryotic cytoskeleton, and nucleoid organization. The organization of DNA and RNA synthesis points to detailed exploration in Part II. Chapter 4. Bacterial culture, Growth, and Development: Introduces the fundamental classes of metabolism, to be developed further in Part III. Developmental diversity includes biofilm formation, sporulation, and multicellular fruiting body cycles. Chapter 5. Environmental Influence and Control of Microbial Growth: Presents extreme environments and microbial adaptations, as well as practical applications for control. Environmental topics are further explored in Part IV, Microbial Diversity and Ecology, while pathogens and their control are pursued in Part V, Medicine and Immunology. Chapter 6. Virus Structure and Function: Includes up-to-date visualization methods such as cryo-EM as well as fluorescent-focus assays. Viral genetics is introduced in preparation for the key roles viruses play in microbial genetics, which is covered in Part II. PART II: GENES AND GENOMES Chapter 7. Genomes and Chromosomes: Presents...



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