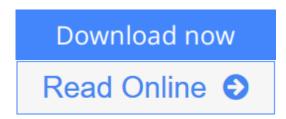


Microbiology

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The Boundless Microbiology textbook is a college-level, introductory textbook that covers the subject of Microbiology, one of the building blocks of the life sciences. Boundless works with subject matter experts to select the best open educational resources available on the web, review the content for quality, and create introductory, college-level textbooks designed to meet the study needs of university students.

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Culturing Microorganisms -- Microbial Nutrition, Cell Differentiation and Starvation, Culturing Bacteria, Microbial Culture Methods, Bacterial Identification, Microbial Growth, Bacterial Population Growth, Counting Bacteria, Temperature and Microbial Growth, Other Environmental Growth Factors, Microbial Growth in Communities, Microbial Growth Control, Mechanisms of Microbial Control, Physical Antimicrobial Control, Chemical Antimicrobial Control

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Microbial Evolution and Phylogeny -- Origins of Life, Astrobiology, Microbial Phylogeny, Classification of Microorganisms, Methods of Classifying and Identifying Microorganisms, Bacterial Diversity, Proteobacteria, Gram-Positive Bacteria and Actinobacteria, Nonproteobacteria Gram-Negative Bacteria, Irregular Bacterial Cells, Other Bacterial Groups, Thermophiles, Archaeal Diversity, Crenarchaeota, Euryarchaeota, Eukaryotic Microbial Diversity, Fungi, Protists, Algae, Helminths

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Epidemiology -- Principles of Epidemiology, Pathogen Identification, Disease Patterns, Nosocomial Infections, Epidemiology and Public Health

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Pathogenicity -- Entry into the Host, Overview of Microbe-Host Interactions, Penetrating Host Defenses, Damaging Host Cells, Surviving Within the Host and Exiting the Host, Pathogenicity and Other Microbes The following chapters are also included: Diseases Microbial Ecology Industrial Microbiology

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