

Industrial Microbiology An Introduction

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microbiology an introduction helps you see the connection between human health and microbiology

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program is contemporary without compromising tortora funke case's hallmark reputation for precision and clarity content revisions include substantially revised immunity chapters and an increased emphasis on antimicrobial resistance bioterrorism and biofilms the new get ready for microbiology workbook and online practice and assessment materials help students prepare for the course this text is now available with masteringmicrobiology all of the resources previously found in the microbiology place companion website are now located within the study area of masteringmicrobiology this text comes packaged with access to masteringmicrobiology tm the microbial world and you chemical principles observing microorganisms through a microscope functional anatomy of prokaryotic and eukaryotic cells microbial metabolism microbial growth the control of microbial growth microbial genetics biotechnology and recombinant dna classification of microorganisms the prokaryotes domains bacteria and archaea the eukaryotes fungi algae protozoa and helminths viruses viroids and prions principles of disease and epidemiology microbial mechanisms of pathogenicity innate immunity nonspecific defenses of the host adaptive immunity specific defenses of the host practical applications of immunology disorders associated with the immune system antimicrobial drugs microbial diseases of the skin and eyes microbial diseases of the nervous system microbial diseases of the cardiovascular and lymphatic systems microbial diseases of the respiratory system microbial diseases of the digestive system microbial diseases of the urinary and reproductive systems environmental microbiology applied and industrial microbiology intended for those interested in learning the basics of microbiology

this book is designed for non major students in microbiology it is praised for its straightforward presentation of complex topics careful balance of concepts and applications and proven art that teaches in its tenth edition tortora funke case responds to the challenge of the microbiology course teaching a wide range of reader levels while still addressing reader under preparedness

leading textbook presenting all aspects of food microbiology food microbiology an introduction presents the basics of microorganisms that impact food safety and quality the roles of beneficial microbes food safety regulations and proper practices for safe and healthy foods throughout all aspects of the supply chain this fifth edition has been updated to reflect advances in research and technology and threats to the global food supply while retaining the pedagogy and structure that students and professors appreciate written in a clear and easy to understand style the book is divided into four sections part i introduces the fundamentals of food microbiology including a brief history of the field the growth processes of food microorganisms the biology of spores and sporeformers techniques for enumeration and detection of organisms in food description of rapid and automated microbial methods and a new chapter focused on antimicrobial resistance part ii addresses important regulatory issues and focuses on foodborne pathogenic microorganisms with chapters describing the most common bacterial species that cause foodborne diseases as well as discussion of parasites viruses and prions part iii explores nonpathogenic microbes important in food including those responsible for fermentations and food spoilage part iv focuses on the control of microorganisms in food including chemical antimicrobials biological and physical methods of food preservation nonthermal processing and food safety systems food microbiology an introduction also includes updated information on the growing threats of antimicrobial resistance and climate change and their potential impacts on the global food supply use of next generation sequencing techniques in the identification of microbes in food expanded discussion on sanitizers disinfectants and nonthermal processing treatments up to date information on the food safety modernization act hazard analysis and critical control points and good manufacturing practices food microbiology an introduction is an essential textbook for undergraduate and graduate students in food science nutrition and microbiology providing the knowledge and tools necessary to navigate the complexities of food microbiology in the 21st century

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Introduction

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