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Microbiology

An Introduction

THIRTEENTH EDITION

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Microbiology Gerard J. Tortora, Berdell R. Funke, Christine L. Case, 2016 The twelfth edition focuses on big picture concepts and themes in microbiology encouraging students to visualize and synthesize more difficult topics such as microbial metabolism immunology and microbial genetics *Microbiology* Gerard J. Tortora, Berdell R. Funke, Christine L. Case, 2010 This 1 selling non majors microbiology book 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 1 challenge of the microbiology course teaching a wide range of reader levels while still addressing reader under preparedness The Tenth Edition meets readers at their respective skill levels First the book signals core microbiology content to readers with

the new and highly visual Foundation Figures that readers need to understand before moving forward in a chapter. Second, the book gives readers frequent opportunities for self assessment with the new Check Your Understanding questions that correspond by number to the chapter Learning Objectives. Then a new visual learning orientation includes an increased number of the popular Diseases in Focus boxes, newly illustrated end of chapter Study Outlines that provide students with visual cues to remind them of chapter content, and new end of chapter Draw It questions. The all new art 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 readers prepare for the course. 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. **Microbiology: An Introduction, 9/E**

Tortora, 2008-09 **Introductory Microbiology-I** Dr. R. Krishna Murthy, The book Introductory Microbiology consists of nine chapters covering all the basics required for the beginners in microbiology. The first chapter, Introduction to Microbiology, gives a brief insight of the historical development of microbiology, pioneers in microbiology, developments and various branches of microbiology, and scope of microbiology. As microorganisms are ubiquitous in distribution, a need for the study of microbial techniques for the proper identification of microorganisms to scientists involved in applied research and industry for their exploitation. The author describes the various isolation and enumeration techniques of microorganisms in the second chapter, Isolation and Enumeration of Microorganisms. The author describes the stains, its types, and various staining methods in the third chapter, Staining Techniques, for the easy identification of various bacteria as they are quite colourless, transparent, and have a refractive index of the aqueous fluids wherein they are suspended. Microorganisms are too small, nanometers to micrometers, to be seen by our unaided eyes, and therefore, the microscopes are of crucial importance to view the microbes. Hence, the author, in the fourth chapter, Microscopy, has described the metric units, properties of light, basic quality parameters of microscopic image, the components of various light and electron microscopes, with reference to

their working principles and limitations. The newer techniques in microscopy such as confocal fluorescence confocal scanning probe and atomic force microscope and application have also been described. Microbial cells are structurally complex and perform numerous functions and have a need for carbon energy and electrons to construct new cellular components and do cellular work. Hence microorganisms should have a constant supply of nutrients and a source of energy which are ultimately derived from the organism's environment. The author in this fifth chapter Microbial Nutrition describes the basic common nutrients required for the microbial growth, nutritional types of microorganisms, nutritional and physical requirements of microbial growth and the various nutrient uptake mechanisms with a special emphasis on the passive and active transport, group translocation and Iron uptake. Culture is an in vitro technique of growing or cultivating microorganisms or only other cells in a suitable nutrients medium called a culture medium in the laboratory. A culture medium is a solid or liquid preparation used to grow, transport and store microorganisms. Different microorganisms require different nutrient materials. All the microbiological studies depend on the ability to grow and maintain microorganisms in the laboratory which is possible only if suitable culture media are available. The author in the sixth chapter Culture media and methods have described the historical prospective of the culture medium, important factors for cultivation, common ingredients of a culture medium, classification of culture media based on consistency, nutritional component and functional use, special culture techniques and some of the commonly used laboratory media have been briefly described. People have been practicing disinfection and sterilization unknowingly since time immemorial though the existence of microorganisms was unknown. The complete destruction or removal of all living microorganisms or their spores by any physical, chemical or mechanical means is called sterilization. Sterilization can be accomplished by using heat, filtration and gases. A satisfactory sterilization process is designed to ensure a high probability of achieving sterility. This author in the seventh chapter Sterilization have described the basic principles of sterilization, factors influencing the effectiveness of antimicrobial agents, various physical and chemical agents and other agents of sterilization. The strain development is a primary step in the process of fermentation or growth studies carried out in any fermentation process or microbiological research which enables to increase the population of microorganisms from stock culture to obtain cells in an active and exponential growth phase. The author in the eighth chapter Strain development and improvement have described the historical prospective of fermentation with reference to brewing and bakers yeast, development of inoculum for bacteria and fungi. He has described the conventional Metagenomics, genetic engineering and mutation selection and latest strain improvement methods such as the genomic transcriptome, proteomic and metabolome analysis. Microbial culture preservation aims at maintaining a microbial strain alive uncontaminated without variation or mutation. The author in the ninth chapter Culture Preservation describes the relevance of various culture preservation techniques with the objective of maintaining live strains uncontaminated and to prevent change in their characteristics.

Microbiology: An Introduction, Global Edition Gerard J. Tortora, Berdell R. Funke, Christine L. Case, 2020-06-08 For pre

nursing and allied health students including mixed majors courses Cutting edge microbiology research for today s learners Tortora Funke and Case s Microbiology An Introduction brings a 21st century lens to the 1 best selling text on the market Known for its exceptionally clear presentation of complex topics this trusted text provides a careful balance of concepts and applications pedagogically superior art and robust animations and media via Mastering™ Microbiology With the 13th Edition new Exploring the Microbiome boxes present updated research on the microbiome and how microbes influence human health Four new Big Picture spreads cover vaccine preventable diseases the hygiene hypothesis vertical transmission and bioterrorism The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed [Current Catalog](#) National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), *Microbiology* Gerard J. Tortora,1998 **American Book Publishing Record** ,2006 **Library of Congress Catalog** Library of Congress,1973 Beginning with 1953 entries for Motion pictures and filmstrips Music and phonorecords form separate parts of the Library of Congress catalogue Entries for Maps and atlases were issued separately 1953 1955 **Microbiology** ,1917 [Microbiology](#) Charles Edward Marshall,1911 **Library of Congress Catalogs** Library of Congress,1976 ['American Book Publishing Record'](#) Cumulative R. R. Bowker LLC,1978 **EPA-430/1** ,1979-05 [Water Quality Instructional Resources Information System \(IRIS\)](#) ,1979 *National Library of Medicine Audiovisuals Catalog* National Library of Medicine (U.S.), **Author - Title Catalog** University of California, Berkeley. Library,1963 *Microbiology Abstracts* ,1975

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