

Chapter 1 : Microbiology: An Introduction, Global Edition : Gerard J. Tortora :

The Twelfth Edition of Tortora, Funke, and Case's Microbiology: An Introduction focuses on big picture concepts and themes in microbiology, encouraging students to visualize and synthesize tough topics such as microbial metabolism, immunology, and microbial genetics. The text and accompanying resources also help students make connections.

Master Microbiology where it matters. An engaging and clear approach to learning complex microbiology topics and theory Praised for its exceptionally clear presentation of complex topics, this 1-selling text for microbiology non-majors provides a careful balance of concepts and applications, proven art that teaches and the most robust, dynamic media in MasteringMicrobiology. The text and accompanying resources also help students make connections between microbiology theory and disease diagnosis, treatment, and prevention. Instructors, contact your Pearson representative for more information. Features This title is a Pearson Global Edition. The Editorial team at Pearson has worked closely with educators around the world to include content which is especially relevant to students outside the United States. For example, Chapter 24 discusses the reemergence of pertussis as a health threat in developed nations and related changes in vaccine formulations, while Chapter 19 includes a discussion of how the human microbiome and autoimmune diseases may be related. New art and more straightforward discussions make this challenging and critical material easier for students to digest. In MasteringMicrobiology, Foundation Figures are reinforced with quizzes to ensure students fully learn the material before moving on to later chapters. They encourage students to think like nurses in various clinical scenarios and spark student interest in the forthcoming chapter content. Each case segment includes critical thinking questions that students should be able to answer after reading the chapter material. The American Society of Microbiology has released six underlying concepts and 22 related topics to provide a framework for key microbiological topics deemed to be of lasting importance beyond the classroom. These topics identify what students should understand at a deep level, including the big-picture ramifications of those concepts and how they relate to other issues within the field. MasteringMicrobiology content is tagged to these statements in addition to book-specific and global learning outcomes. The authors target and cover diseases from an allied health perspective. Students benefit from self-paced tutorials that feature immediate wrong-answer feedback and hints that emulate the instructor office-hour experience to 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. Complement, Mechanisms of Antibiotic Resistance in Bacteria, and more. Tough Topic and Big Picture: Exclusively available with Microbiology: With Learning Catalytics, instructors can assess students in real time using open-ended tasks to probe student understanding. References to Microbiology Animations appear throughout the book. MicroLab Tutors are assessable and assignable in MasteringMicrobiology. Students arrive more prepared and confident for lab time, freeing up valuable lab and lecture time. Table of Contents Part One: Fundamentals of Microbiology Ch 1: The Microbial World and You Ch 2: Chemical Principles Ch 3: Observing Microorganisms through a Microscope Ch 4: Microbial Metabolism Ch 7: The Control of Microbial Growth Ch 8: Microbial Genetics Ch 9: A Survey of the Microbial World Ch Classification of Microorganisms Ch Domains Bacteria and Archaea Ch Fungi, Algae, Protozoa, and Helminths Ch Viruses, Viroids, and Prions Part Five: Environmental and Applied Microbiology Ch Environmental Microbiology Ch Applied and Industrial Microbiology.

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