
The research covered in this book was contributed by many different authors and it provides the reader with an overview of the latest discoveries, methods and technology used in microbiology today. The book is split into 4 parts, each part focused on a particular aspect of microbiology. There are many figures throughout the book to help readers understand any complicated concepts that were introduced. The topics discussed are as follows: Cell Structure, Molecular Diversity, Growth Patterns & Genetics - Bacteria, Molecular Diversity - Prokaryotes & Fungi which includes yeast cells as well as bacteria and fungi together for comparison purposes. The last part of the book focuses on host-microbe interactions, disease & epidemiology. There are an additional 6 Appendices for topics such as safety in laboratory procedures, list of sources for each chapter, laboratory exercises and safety practices in schools/ homes etc. This book is based on the seventh edition of Pelczar's Microbiology which was published in 2013 by Lippincott Williams & Wilkins. The author of the book is Catherine L Pelczar who is currently Professor Emerita at the University of Oklahoma Health Sciences Center. She holds B.A., M.A., Ph.D., M.S., Ed. D. degrees from the University of Oklahoma. Pelczar is a member of the following professional societies: American Society for Microbiology, American Society for Microbiology Education Outreach Committee, Oklahoma Academy of Science. The book is split into four parts each focusing on a particular aspect of microbiology, these are: Cell Structure, Molecular Diversity, Growth Patterns & Genetics - Bacteria, Molecular Diversity - Prokaryotes & Fungi which includes yeast cells as well as bacteria and fungi together for comparison purposes. The last part of the book focuses on host-microbe interactions, disease & epidemiology. There are an additional 6 Appendices for topics such as safety in laboratory procedures, list of sources for each chapter, laboratory exercises and safety practices in schools/ homes etc. The book is extensively referenced and there is a wide range of sections on each topic including: Definition of some key terms used in microbiology and some general biological information. The first part of the book explains some key terminology relating to cell structure which includes: organelles, membranes & cytoskeleton. This section also gives a brief description of the various components of a bacterial cell including DNA, mRNA & protein synthesis. The section on growth patterns & genetics of bacteria is broken down into further detail, which includes defining the fission and binary fission process. This section also includes an explanation on how DNA replication occurs, in this case it focuses on E. coli. The third section focuses on molecular diversity of bacteria and fungi. It starts off by explaining inoculation techniques from a microbiologists point of view followed by a description of the different types of microscopes used to observe these organisms under a microscope. This section also explains why DNA was selected as the genetic material for all life forms and then how it is replicated together with an explanation of the transcription process which then leads to protein synthesis.

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