

Principles Of Modern Microbiology

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principles of modern microbiology presents an authoritative balanced introduction to microbiology for majors ideal for the one semester course the text provides a manageable amount of detail omitting topics that were previously taught in prerequisite courses while still maintaining a level of intellectual rigor appropriate for students at this level a dynamic art program presents accurate molecular cellular images in an innovative 3 d like style while the author's clear student friendly writing style helps students grasp difficult concepts great experiments boxes throughout the text describe real world experiments and allow students to gain a clear sense of the experimental process as it applies to microbiology complete with a wealth of student and instructor resources principles of modern microbiology is sure to engage and inspire majors who are looking to expand their knowledge of the many facets of microbiology

this fifth edition of modern food microbiology places special emphasis on foodborne microorganisms as the previous four editions attempted to do a good understanding of the basic biology of foodborne organisms is more critical for food scientists now than in previous decades with so many microbiologists in the 1990s devoting their attention to genes and molecules one objective of this text is to provide a work that places emphasis on entire microbial cells as well as their genes and molecules for textbook usage this edition is best suited for a second or subsequent course in microbiology although organic chemistry is a desirable prerequisite those with a good grasp of general biology and chemistry should not find this book difficult in addition to its use as a course text this edition like the previous contains material that goes beyond what normally is covered in a one term course for use as a food microbiology text suggested starting points are the sections in chapter 2 that deal with the sources and types of microorganisms in foods followed by the principles outlined in chapter 3 the food product chapters chaps 4 9 may be covered to the extent that one wishes but the principles from chapters 2 and 3 should be stressed during this coverage a somewhat logical next step would be food preservation methods as outlined in

chapters 13-17 where again the principles from chapter 3 come into play

teaches the principles of modern microbiology includes both historical background and foundational aspects of microbiology as well as a robust and modern treatment of microbiology with concrete examples of the microbial world

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section 1 dna metabolism chapter 1 prokaryotic dna replication chapter 2 dna repair mechanisms and mutagenesis chapter 3 gene expression and its regulation chapter 4 bacteriophage genetics chapter 5 bacteriophage and its relatives chapter 6 single stranded dna phages chapter 7 restriction modification systems chapter 8 recombination chapter 9 molecular applications section 2 genetic response chapter 10 genetics of quorum sensing circuitry in *pseudomonas aeruginosa* implications for control of pathogenesis biofilm formation and antibiotic biocide resistance chapter 11 endospore formation in *bacillus subtilis* an example of cell differentiation by a bacterium chapter 12 stress shock chapter 13 genetic tools for dissecting motility and development of *myxococcus xanthus* chapter 14 agrobacterium genetics chapter 15 two component regulation chapter 16 molecular mechanisms of quorum sensing section 3 genetic exchange chapter 17 bacterial transposons an increasingly diverse group of elements chapter 18 transformation chapter 19 conjugation chapter 20 the subcellular entities a k a plasmids chapter 21 transduction in gram negative bacteria chapter 22 genetic approaches in bacteria with no natural genetic systems

modern microbiology has transformed our understanding of life on earth and had a huge impact on medicine agriculture and biotechnology in this book nicholas p money explores the microbial world considering its diversity and vital roles in ecosystems including the human body

this book describes various aspects of modern microbiology including microbial enzymes secondary metabolites next generation sequencing microbial based biopesticides microbial based cancer therapies biodiesel and microbial products from fermentation biodegradation bioremediation and wastewater treatment further it explains how and why microbes play an important role in preserving the welfare of living beings and the environment many bacteria play a significant part in cleaning our environment by detoxifying various xenobiotic compounds while several microbes produce secondary metabolites that are useful to human beings the book is divided into 15 chapters that cover various aspects of microorganism based biotechnology including recent methodologies such as advanced molecular techniques as well developments in classical microbiological techniques the authors also explain how the latest and classical techniques are being used in modern day microbial biotechnology all chapters were written by experts from prominent universities research laboratories and institutes around the globe above all they focus on recent advances in microbial technology that promote the welfare of living beings and the environment

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