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"This fourth edition has been substantially revised with some new sections; for example, phage genomics and cluster of regularly interspaced short palindromic repeats (CRISPR). It is well-written extensive textbook of the genetics of bacteria and viruses as this field developed from the 1960s through the 1980s.

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Providing the single most comprehensive and authoritative textbook on bacterial molecular genetics, this updated edition provides descriptive background information, detailed experimental methods, examples of genetic analyses, and advanced material relevant to current applications of molecular genetics.

Molecular Genetics of Bacteria is the single most comprehensive and authoritative textbook on bacterial molecular genetics. Perfect for advanced undergraduate and graduate-level courses, the text presents the latest research on the subject in a clearly written and well-illustrated style. This book is intended for students and professionals in the fields of microbiology, genetics, biochemistry, bioengineering, medicine, molecular biology, and biotechnology.

Presenting the basic concepts and most exciting developments, this textbook provides an introduction to the molecular genetics of bacteria in a form suitable for the needs of students studying microbiology, biotechnology, molecular biology, biochemistry, genetics and related biomedical sciences.

The single most comprehensive and authoritative textbook on bacterial molecular genetics Snyder & Champness Molecular Genetics of Bacteria is a new edition of a classic text, updated to address the massive advances in the field of bacterial molecular genetics and retitled as homage to the founding authors. In an era experiencing an avalanche of new genetic sequence information, this updated edition presents important experiments and advanced material relevant to current applications of molecular genetics, including conclusions from and applications of genomics; the relationships among recombination, replication, and repair and the importance of organizing sequences in DNA; the mechanisms of regulation of gene expression; the newest advances in bacterial cell biology; and the coordination of cellular processes during the bacterial cell cycle. The topics are integrated throughout with biochemical, genomic, and structural information, allowing readers to gain a deeper understanding of modern bacterial molecular genetics and its relationship to other fields of modern biology. Although the text is centered on the most-studied bacteria, Escherichia coli and Bacillus subtilis, many examples are drawn from other bacteria of experimental, medical, ecological, and biotechnological importance. The book's many useful features include Text boxes to help students make connections to relevant topics related to other organisms, including humans A summary of main points at the end of each chapter Questions for discussion and independent thought A list of suggested readings for background and further investigation in each chapter Fully illustrated with detailed diagrams and photos in full color A glossary of terms highlighted in the text While intended as an undergraduate or beginning graduate textbook, Molecular Genetics of Bacteria is an invaluable reference for anyone working in the fields of microbiology, genetics, biochemistry, bioengineering, medicine, molecular biology, and biotechnology. "This is a marvelous textbook that is completely up-to-date and comprehensive, but not overwhelming. The clear prose and excellent figures make it ideal for use in teaching bacterial molecular genetics." —Caroline Harwood, University of Washington

This advanced level textbook offers an in-depth look at molecular biology and biochemistry. The breadth and diversity of bacterial genetics are explored in discussions of microbial systems beyond the much-studied E Coli.

The Fourth Edition of this highly successful book provides an essential introduction to the molecular genetics of bacteria. Thoroughly revised and updated, Molecular Genetics of Bacteria now includes a much greater coverage of genomics, microarrays and proteomics. An enhanced treatment of the ways in which both classical and modern genetics have contributed to our understanding of how bacteria work is included. The focus of the book remains firmly on bacteria and will be invaluable to those students studying microbiology, biotechnology, molecular biology, biochemistry, genetics and related biomedical sciences. Expanded treatment of the development of bacterial structures, cellular communication, quorum sensing and two-component regulation. Provides a distillation of key concepts of bacterial genetics to enhance student understanding. Includes examples of the applications of genetics focusing on bacterial pathogenicity.

Our understanding of bacterial genetics has progressed as the genomics field has advanced. Genetics and genomics complement and influence each other; they are inseparable. Under the novel insights from genetics and genomics, once-believed borders in biology start to fade: biological knowledge of the bacterial world is being viewed under a new light and concepts are being redefined. Species are difficult to delimit and relationships within and between groups of bacteria – the whole concept of a tree of life – is hotly debated when dealing with bacteria. The DNA within bacterial cells contains a variety of features and signals that influence the diversity of the microbial world. This text assumes readers have some knowledge of genetics and microbiology but acknowledges that it can be varied. Therefore, the book includes all of the information that readers need to know in order to understand the more advanced material in the book.

The Fourth Edition of Microbial Physiology retains the logical, easy-to-follow organization of the previous editions. An introduction to cell structure and synthesis of cell components is provided, followed by detailed discussions of genetics, metabolism, growth, and regulation for anyone wishing to understand the mechanisms underlying cell survival and growth. This comprehensive reference approaches the subject from a modern molecular genetic perspective, incorporating new insights gained from various genome projects.

**Molecular Genetics of Bacteria, 4th Edition (ASM Books)---**

Amazing medical breakthroughs are made every day. In the past decades, medical researchers have cured diseases that were once deadly and devised new methods to heal that were once unimaginable. This title follows the development of antibiotics, including premodern forerunners to antibiotics, groundbreaking discoveries and the doctors who made them, and where the science is heading in the future. Learn how antibiotics work and why scientists need to continually discover new drugs. Sidebars, full-color photos, a glossary, and well-placed graphs, charts, and maps, enhance this engaging title. Aligned to Common Core Standards and correlated to state standards. Essential Library is an imprint of ABDO Publishing Company.

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