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figures make it ideal for use in teaching bacterial molecular genetics."
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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 fifth edition of this highly successful book provides students with an essential introduction to the molecular genetics of bacteria covering the basic concepts and the latest developments. It is comprehensive, easy to use and well structured with clear two-colour diagrams throughout. Specific changes to the new edition include: More detail on sigma factors, anti-sigma factors and anti-anti sigma factors, and the difference in the frequency of sigma factors in bacteria Expanded material on integrons, as these are becoming increasingly important in antibiotic resistance Enhanced treatment of molecular phylogeny Complete revision and updating of the final chapter on ' Gene Mapping and Genomics ' Inclusion of modern sequencing strategies – for example, massively parallel sequencing, transcriptome sequencing and metagenomics Improved treatment of the molecular techniques used to identify and type bacteria Two-colour illustrations throughout The focus of the book remains firmly on bacteria and will be invaluable to students studying microbiology, biotechnology, molecular biology, biochemistry, genetics and related biomedical sciences.

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

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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.

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

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