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## Molecular Genetics Of Bacteria Snyder Pdf Free Download Fixed

The first edition of the book was published in 1988. The growing importance of molecular genetics in bacterial biology and medicine is a main reason for updating the book. The structure has been greatly simplified and streamlined. This section provides the background information necessary to understand the concepts of bacterial gene structure and function and the current approaches to molecular genetics. A brief historical review provides a context for the introduction of the field of modern bacterial molecular genetics. The first section (Chapter 1) introduces the microbial world with an emphasis on bacteria, the key organisms of the central dogma of molecular biology. The structure and functions of DNA and mRNA, including the bacterial genome and the properties of the replication fork, are described. The chapter then moves to gene regulation at the level of transcription, translation, and protein folding, and discusses the genetic basis of the Escherichia coli lac operon. Methods used for gene cloning and manipulating the bacterial genome are described. These include use of restriction enzymes, the polymerase chain reaction, transduction, phage-based recombination, transformation with physical methods and selections, and introduction of recombinant sequences by homologous recombination. Transcription and translation as models for gene regulation are discussed. The following chapter (Chapter 2) describes replication and repair and how the individual components fit together. The bacterial cell cycle, as it relates to DNA replication and repair, is discussed. In the bacterium Escherichia coli, after chromosome replication, the two strands are coated with a ring-shaped structure called the nucleoid. Chromosomal genes and the chromosome as a whole are associated with the nucleoid. Strand bias in the replication fork is discussed, with the manifestation of this bias being gene-specific. A chemical model for the replication fork in E. coli is presented. The chapters in Chapter 3 focus on the genetics of protein synthesis and the enzyme translation termination. The interaction of the ribosome and mRNA is described as it relates to the control of translation. The first section of this chapter is devoted to the structure and regulation of translation initiation and termination. Specific mechanisms for those processes are described and are supplemented by a brief discussion of the genetic basis for these processes. Because of the critical role of elongation in translation, an emphasis is placed on the biochemistry of aminoacyl-tRNA, the elongation factor Tu (EF-Tu), and its interactions with tRNA and mRNA. The third section of this chapter deals with the genetic apparatus controlling expression of the ribosome, and that of the aminoacyl-tRNA synthetases. Although the material on ribosomes and translation is well known, the chapter is supplemented with information on the regulation of expression of ribosomal genes. Ribosome assembly is described briefly.





the scope of the book is to provide an introduction to the different topics in bacterial genetics and to explain the principles of these topics. while the book aims to provide an introduction to molecular

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genetics, it does not have a laboratory component and focuses on the theoretical aspects of molecular genetics. the aim of this book is to provide a comprehensive introduction to the field of molecular genetics of bacteria.

“molecular genetics of bacteria”, 4th edition, is for

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advanced graduate and undergraduate students in biology, microbiology, biotechnology, and other life sciences who wish to understand the basics of bacterial molecular genetics. the book is designed to provide an introduction to the topics in bacterial genetics such as gene

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organization, regulation and expression, genetics of plasmids, prokaryotic and phage genetics, and genetics of conjugation and transformation. the major strength of this book is the extensive coverage of the topics in bacterial genetics. the main drawback of the book is the length of the

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text, which makes it an awkward resource for a quick reference book. chapter 1, “introduction to molecular genetics,” is included for the benefit of the reader who has never before been exposed to the general concepts of molecular genetics. the chapter provides the basic definitions

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and concepts that are required for the remaining chapters. we provide a brief overview of gene structure and gene expression. we also discuss the basic principles of recombination, such as homologous recombination and single crossover events. we then proceed to discuss the

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fundamental experimental approaches that are used to study the function of genes, including gene cloning, site-directed mutagenesis, and functional complementation.

finally, we outline the strategy for generating double-crossover mutants.

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