Chapter 9 Microbial Genetics

9.1 Introduction to Genetics and Genes

Genetics: the study of the inheritance, or heredity, of living things. It explores:

- The transmission of biological properties (traits) from parent to offspring
- How those traits are expressed
- The structure and function of the genetic material
- How this material changes

The Nature of the Genetic Material

For a species to survive, it must be able to self-replicate.

The Levels of Structure and Function of the Genome

Genomes: sum total of genetic material of an organism.

Genomics: study of an organism's entire genome.

Chromosome: a distinct cellular structure composed of a neatly packaged DNA molecule.

- Eukaryotic chromosomes have DNA around histone proteins
 - Located in the nucleus
 - Few to hundreds
 - Linear appearance
- Bacterial chromosomes are condensed into a packet form by histonelike proteins.
 - Singular
 - Some have multiple, circular or linear chromosomes

Gene: a site on the chromosome that provides into for a certain cell function

A segment of DNA that has the info to make a protein or an RNA.

3 basic categories of genes:

- Structural genes that code for proteins
- Genes that code for the RNA machinery used in protein production
- Regulatory genes that control gene expression
- The sum of all three is an organism's genetic makeup, or genotype.
- Only a portion of genes are expressed, creating traits referred to as the phenotype
 - Organisms have more genes than in their genotypes and phenotypes
 - Phenotype can change depending on which genes are turned on

The Size and Packaging of Genomes

Genomes vary in size

- Smallest viruses have 4 or 5 genes
- Bacterium E. coli has a single chromosome with 4000 and 5000 genes.

Microbiology Chapter Microbial Genetics

Rachel S Tattersall

Microbiology Chapter Microbial Genetics:

Modern Microbial Genetics Uldis N. Streips, Ronald E. Yasbin, 2004-03-24 In accordance with its predecessor the completely revised and expanded Second Edition of Modern Microbial Genetics focuses on how bacteria and bacteriophage arrange and rearrange their genetic material through mutation evolution and genetic exchange to take optimal advantage of their environment The text is divided into three sections DNA Metabolism Genetic Response and Genetic Exchange The first addresses how DNA replicates repairs itself and recombines as well as how it may be manipulated The second section is devoted to how microorganisms interact with their environment including chapters on sporulation and stress shock and the final section contains the latest information on classic exchange mechanisms such as transformation and conjugation Chapters include Gene Expression and Its Regulation Single Stranded DNA Phages Genetic Tools for Dissecting Motility and Development of Myxococcus xanthus Molecular Mechanism of Quorum Sensing Transduction in Gram Negative Bacteria Genetic Approaches in Bacteria with No Natural Genetic Systems The editors also cultivate an attention to global regulatory systems throughout the book elucidating how certain genes and operons in bacteria defined as regulons network and cooperate to suit the needs of the bacterial cell With clear appreciation for the impact of molecular genomics this completely revised and updated edition proves that Modern Microbial Genetics remains the benchmark text in its field Bacterial Genetics Nancy Trun, Janine Trempy, 2009-04-01 Fundamental Bacterial Genetics presents a concise introduction to microbial genetics The text focuses on onebacterial species Escherichia coli but draws examples fromother microbial systems at appropriate points to support the fundamental concepts of molecular genetics A solid balance of concepts techniques and applications makes this book anaccessible essential introduction to the theory and practice offundamental microbial genetics FYI boxes feature key experiments that lead to what we nowknow biographies of key scientists comparisons with other species and more Study questions at the end of each chapter review and teststudents knowledge of key chapter concepts Key references included both at chapter end and in a fullreference list at the end of the book Full Chapter on Genomics Bioinformatics and Proteomics includes coverage of functional genomics and microarrays Dedicated website animations study resources webresearch questions and illustrations downloadable for powerpointfiles provide students and instructors with an enhanced interactive experience Microbiology and Microbial Genetics Dr. Naveen Gaurav, 2025-02-14 N A

Alcamo's Fundamentals of Microbiology Glendale Community College Jeffrey C Pommerville,2009-03-29

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complete understanding of microbiology Covering a wide range of topics from microbial structure and genetics to their practical applications in health industry and the environment the book is structured to cater to undergraduate learners and entry level researchers. The book is divided into eight comprehensive chapters each focusing on core aspects of microbiology Starting with a historical introduction and the classification of microorganisms readers are gradually introduced to microbial physiology growth nutrition and genetic mechanisms. Special attention is given to contemporary topics such as antibiotic resistance genetic engineering bioremediation food microbiology and bioinformatics. Written in student friendly language this book blends theoretical knowledge Illustrations real world with practical examples and relevance simplified summaries are included to support easier learning and retention Additionally key terms and review points help reinforce understanding and support exam preparation. What sets this book apart is its application driven approach From microbial involvement in agriculture and waste management to their use in biotechnology and diagnostics students will gain insight into the significance of microbes in solving real world problems. Whether used in classrooms laboratories or independent study. Fundamentals of Microbiology Concepts and Applications serves as a reliable and comprehensive resource. It lays a strong foundation for advanced study and research in microbiology while nurturing the scientific curiosity needed for innovation in biological sciences.

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