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10.6 The DNA genotype is expressed as proteins, which provide the molecular basis for phenotypic traits. A gene is a sequence of DNA that directs the synthesis of a specific protein. –DNA is transcribedinto RNA –RNA is translatedinto protein. The presence and action of proteins determine the phenotype of an organism.

Chapter 10 Molecular Biology of the Gene

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Molecular biology - Wikipedia

A special sequence of nucleotides in DNA that marks the end of a gene. It signals RNA polymerase to release the newly made RNA molecule, which then departs from the gene

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Now completely up-to-date with the latest research advances, the Seventh Edition retains the distinctive character of earlier editions. Twenty-two concise chapters, co-authored by six highly distinguished biologists, provide current, authoritative coverage of an exciting, fast-changing discipline.

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Molecular Biology or Molecular Genetics - Biology Department Biochemical Genetics - Biology or Biochemistry Department Microbial Genetics - Genetics Department The book is typically used in a one-semester course that may be taught in the fall or the spring. However, the book contains sufficient information so that it could be used for a full year course. It is appropriate for juniors and seniors or first year graduate students.

This book of *Molecular Biology: Genes to Proteins* is a multipurpose course book that accentuates on essential sub-atomic procedures, (for example, the combination of DNA, RNA, and protein) and hereditary wonders in both prokaryotic and eukaryotic cells. At whatever point conceivable the book utilizes a revelation approach so understudies find out about the test confirm significant to the ideas examined. This instructive approach gives authentic and exploratory foundation data that allows the per user to perceive how atomic scholars look at pieces of information and build up the speculations that eventually prompt new advances in the field. Procedures created by sub-atomic researcher help to recognize bacterial and viral contaminations, deliver new medications and hormones, ponder the adequacy of a chemotherapeutic specialist used to treat a harmful infection, decide if an individual has an intrinsic mistake of digestion, and configuration medications to regard maladies, for example, AIDS. Albeit starting endeavors to cure inalienable mistakes of digestion by hereditary building have been generally unsuccessful, and without a doubt some have demonstrated hazardous to the subject, the up and coming age of atomic researcher likely will illuminate this and a large group of other wellbeing related issues.

A gene is a sequence of DNA or RNA that codes for a molecule that has a unique function. During gene expression, the DNA is copied into RNA. The transmission of genes to the next generation is the basis of inheritance of phenotypic traits. The study of the structure and function of genes at the molecular level is approached from the discipline of molecular genetics, which is a branch of molecular biology. It explores the aspects of heredity, variation and mutation by studying chromosomes and gene expression. The understanding of gene amplification techniques, particularly polymerase chain reaction and molecular cloning, separation and detection of DNA and mRNA, etc. are vital to the understanding of the molecular biology of genes. This book aims to shed light on some of the unexplored aspects of this area of study. Some of the diverse topics covered herein address the significant aspects of molecular biology of the gene. In this book, constant effort has been made to make the understanding of the difficult concepts, as easy and informative as possible for the readers.

Molecular Biology, Second Edition, examines the basic concepts of molecular biology while incorporating primary literature from today's leading researchers. This updated edition includes Focuses on Relevant Research sections that integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. The new Academic Cell Study Guide features: all the articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. Animations provided deal with topics such as protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE. The text also includes updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA. An updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. This text is designed for undergraduate students taking a course in Molecular Biology and upper-level students studying Cell Biology, Microbiology, Genetics, Biology, Pharmacology, Biotechnology, Biochemistry, and Agriculture. NEW: "Focus On Relevant Research" sections integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. NEW: Academic Cell Study Guide features all articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. NEW: Animations provided include topics in protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE Updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA Updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. Fully revised art program

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