

Unit 6: Molecular Genetics Study Guide

1. How is genetic information in one eukaryotic cell copied and distributed to two identical daughter cells?

During the process of mitosis, genetic information in one eukaryotic cell is copied and distributed to two identical daughter cells.

2. How is a gene transcribed and translated to produce a protein?

A gene is transcribed and translated to produce a protein through the process of transcription and translation. In transcription, a cell makes an RNA copy of a piece of DNA where the mRNA carries the genetic information needed to make proteins in a cell. Then, in translation, the sequence of mRNA is translated to a sequence of amino acids.

3. Describe how genetic information enters a bacteria by:

- a. Transformation:

Genetic information enters a bacteria by the bacterium taking a piece of DNA that is floating in the environment.

- b. Transduction:

Genetic information enters a bacteria by accidentally moving from one bacterium to another due to a virus.

- c. Conjugation:

Genetic information enters a bacteria by transferring between bacteria through a tube that is between cells.

4. What is the base-pairing rule?

The base-pairing rule goes as follows; adenine (A) + thymine (T) and cytosine (C) + guanine (G)

5. What is the start codon?

The start codon is AUG due to the fact that it is the first codon in the mRNA that undergoes translation.

6. What are the steps of DNA replication?

1. DNA replication begins at sites called origins of replication
2. Helicase will unwind the DNA strands at each replication fork
3. The enzyme primase initiates replication by adding short segments of RNA, called primers, to the parental DNA strand
4. Antiparallel elongation
5. The leading strand is synthesized in one continuous segment, but since the lagging strand moves away from the replication fork it is synthesized in chunks
6. After DNAP III forms an okazaki fragment, DNAP I replaces RNA nucleotides with DNA nucleotides

7. What are the steps of transcription?

Molecular Genetics Unit Study Guide

Parveen Kumar, Michael L Clark



Molecular Genetics Unit Study Guide:

AP Biology Study Guide Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **ASAP Biology: A Quick-Review Study Guide for the AP Exam** The Princeton Review, 2018-01-30 Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Biology prep guide Cracking the AP Biology Exam LIKE CLASS NOTES ONLY BETTER The Princeton Review's ASAP Biology is designed to help you zero in on just the information you need to know to successfully grapple with the AP test No questions no drills just review Advanced Placement exams require students to have a firm grasp of content you can't bluff or even logic your way to a 5 Like a set of class notes borrowed from the smartest student in your grade this book gives you exactly that No tricks or crazy stratagems no sample essays or practice sets Just the facts presented with lots of helpful visuals Inside ASAP Biology you'll find Essential concepts terms and functions for AP Biology all explained clearly concisely Diagrams charts lists and graphs for quick visual reference A three pass icon system designed to help you prioritize learning what you MUST SHOULD and COULD know in the time you have available Ask Yourself questions to help identify areas where you might need extra attention A resource that's perfect for last minute exam prep and for daily class work Topics covered in ASAP Biology include The chemistry of life Evolutionary biology Cells cellular energetics Heredity molecular genetics Animal structure function Behavior ecology Quantitative skills biostatistics and more Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Biology prep guide Cracking the AP Biology Exam *Human Genetics*, 1980 Human Molecular Genetics Peter Sudbery, 2002 This second edition of Human Molecular Genetics continues to provide a clear introduction to this complex and fast moving field Now updated and revised throughout the material covered has been carefully selected and structured to provide a concise overview for students studying the subject as part of a general biology genetics or medical degree A milestone in science has been reached through the publication of draft sequences of the human genome and this is reflected in changes to the book A new chapter details the methodology used what was revealed about genome structure and evolution and how the genome sequence will be exploited in diagnosing and treating common diseases The chapter on complex diseases has also been completely rewritten to reflect new strategies for searching for the genes involved in such disorders Finally the human genome project has opened up new prospects in population genetics and evolution and these are discussed in a rewritten chapter Features Concise up to date introduction to the subject New chapters on sequencing and structure of the human genome New chapter on complex disorders including population surveys using SNPs Fully revised chapter on human population genetics and evolution Boxed case studies and techniques Includes important genetic disorders and

genetic counselling References updated through a linked Web site The text is aimed at courses in Human Genetics Human Molecular Genetics and The Molecular Basis of Disease taught within Biology Biochemistry Biomolecular Sciences Biomedical Sciences Genetics and medical and other health care degrees Peter Sudbery is Senior Lecturer in Genetics at the Department of Molecular Biology and Biotechnology at the University of Sheffield The Cell and Molecular Biology series provides introductions to key exciting areas of cell and molecular biology stimulating student s imaginations and initiative to bridge the gap between memorising concepts and the active approach needed for research and literature review projects This active learning series also introduces students to experimental design and information retrieval and analysis including exploration of the World Wide Web

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