BIO H FINALS STUDY GUIDE

AMOERA SISTERS VIDEO
CRASH COURSE TRANSCRIPTION AND TRANSLATION.
BIOTECH AND PROTEIN SYNTHESIS PRACTICE TEST

BIOTECHNOLOGY

Explain how a gene can be inserted into a plasmid

RESTRICTION ENZYMES

- they cut DNA in a very specific fashion.
- each enzyme has a unique nucleotide sequence at which it cuts a DNA molecule.
- the sequence is a <u>Palindrome</u> sequence.
- the enzymes are found naturally in bacteria (3000 identified 600 commercially)
- cuts through covalent bonds but not through hydrogen bonds

CUTTING SITES

 depending on the enzyme, the cut creates either a staggered (sticky ends) cut, or a blunt cut. The sticky end joins with another sticky end, etc....

Sticky end/cut: GAATTC CGGAAG Blunt end/cut: CCC|GGG GGG|CCC

PLASMIDS

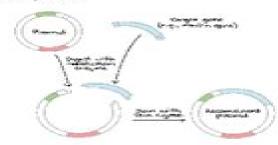
- small <u>circular</u> pieces of DNA that replicate independently from original DNA.
- found in bacteria

DNA LIGASE

 paste the sticky end fragments of DNA together into the plasmids to its complementary bases

RECOMBINANT DNA

 finally forms the new plasmid (DNA) with the complementary sticky ends attached



A Description of ways recombinant DNA technology can be applied

RECOMBINANT DNA TECHNOLOGY

1. Farming

Using this tech, a gene that provides resistance to specific weed-killing chemicals has been developed. When farmers use chemicals, they kill weeds without killing the crops.

2. Diabetes

Scientists can insert the human gene that directs the production of human insulin into the E. Coli which can produce large quantities of human insulin. Insulin treats diabetes.

3. Vaccines

A virus vaccine is composed of viral proteins manufactured by yeast cells that have been recombined with viral genes.

4. DNA Fingerprinting (Gel Electrophoresis)

Bio Finals Study Guide

SB Merriam

Bio Finals Study Guide:

Biology Lab Basics (Speedy Study Guides) Speedy Publishing, 2015-04-24 You are exposed to many different types of hazards in a biology lab but you can curtail these risks by going through the theoretical basics first This quick study guide teaches you the safe way to prepare solutions dispose of buffers and chemicals as well as work with equipment and DNA Safety in the laboratory can be made possible if you order a copy today Thermodynamics Exam Study Guide Cybellium Ltd, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium LEED v4 Green Associate Exam Study Guide Green Building Research Institute, This all inclusive LEED v4 Green Associate exam Study Guide is your path to a new professional credential GBRI a USGBC Education Partner has carefully developed this guide to ensure all topics found on the real exam are thoroughly covered Our expert instructors have devised an easy to navigate guide that comes with complimentary access to supplemental materials online You will gain access to online on demand study modules exploring the topics covered in the guide mock exams structured like the real test additional practice questions by section flash cards memory charts more Access your materials 24 7 for your convenience

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