

BIO H FINALS STUDY GUIDE

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BIOTECHNOLOGY

1. 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 Palindrome 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:

G|AATTC
CTGGA|C

Blunt end/cut:

CCC|GGG
GGG|CCC

PLASMIDS

- small circular 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



2. 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



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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 AI 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.com **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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Biology Senior Lecturer in African History John Parker, 2008-07 The Revise AS study guides are written by examiners and contain in depth course coverage of the key information plus hints tips and guidance End of unit sample questions and model answers provide essential practice to improve students exam technique

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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