

BIO H FINALS STUDY GUIDE

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[CRASH COURSE TRANSCRIPTION AND TRANSLATION](#)

[BIOTECH AND PROTEIN SYNTHESIS PRACTICE TEST](#)

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

C|GGAATC

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

BM King



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