

CH 20 STUDY GUIDE: DNA TECHNOLOGY

KEY TERMS

recombinant DNA technology

biotechnology

restriction enzymes

"sticky" ends

DNA ligase

gel electrophoresis

transformation

artificial transformation

gene cloning

gene library

copy DNA(=cDNA)

genetic probe

DNA sequencing

DNA hybridization

PCR

RLFPs

DNA fingerprinting

WORD ROOTS

Liga - = bound, tied (*DNA ligase*: a linking enzyme essential for DNA replication)

Electro - = electricity (*electroporation*: a technique to introduce recombinant DNA into cells by applying a brief electrical pulse to a solution containing cells)

Poly - = many; **morph** - = form (*Single nucleotide polymorphisms*: one-base-pair variations in the genome sequence)

QUESTIONS

1. Describe the process involved in inserting the genes from one kind of organism into cells of another kind of organism.
2. Describe how a gene from humans can be inserted into a bacteria.
3. Which electrode do DNA fragments migrate toward (anode(-) or cathode(+))? Why?

Section Dna Technology Study Guide

Victor M. Corman



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