

Manipulating DNA Notes

Scientists use their knowledge of the structure of DNA and its chemical properties to study and change DNA molecules.

Tools of Molecular Biology

1. Gel Electrophoresis

- DNA Extraction**- using chemicals to remove DNA from the nucleus of the cell
- Cutting DNA**- DNA is much too long to be analyzed, so we cut it into smaller fragments using restriction enzymes, which cut DNA at a specific sequence of nucleotides.
- Sequencing DNA**- DNA fragments can be separated by weight and length in order to analyze specific sequences (order of bases).
 - DNA fragments are inserted into a porous gel, and then a voltage is passed through, pulling the DNA to the opposite side of the gel.
 - DNA is negatively charged.
 - The DNA sequence can then be "read" as the lighter segments will travel further and faster.



2. Transformation- a cell takes in DNA from another source and combines them together to make recombinant DNA.

- **Recombinant DNA**- DNA that is made by connecting fragments of DNA from different sources.
- Restriction enzymes are used to cut a sequence of DNA.
- What is leftover? A double stranded DNA fragment with a single stranded end.
- Next, a vector is used to insert the DNA into its new source. A vector is a carrier in which foreign DNA can be transferred into a host cell.
- Vectors can be:
 - Mechanical**- to introduce DNA into a nucleus
 - Biological**- virus DNA or plasmids (a small ring of DNA found in a bacterial cell).
- Finally, gene splicing rejoins the cut pieces of DNA through the use of DNA ligase (an enzyme which acts like tape to join the pieces together).



Manipulating Dna Study Guide Answers

Neil A. Campbell



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