

3.1.001.3. DNA Tools and Biotechnology

I. Topics

- General ideas in biotechnology
- A few tools and their applications

II. Recombinant DNA

- DNA sequencing has depended on advances in technology, starting with making recombinant DNA.
- In **recombinant DNA**, nucleotide sequences from two different sources, often two species, are combined in vivo into the same DNA molecule.
- Methods for making recombinant DNA are central genetic engineering, the direct manipulation of genes for practical purposes.
- DNA technology has revolutionized biotechnology, the manipulation of organisms or their genetic components to make useful products.
- An example of DNA technology is the **zootomy**, a measurement of gene expression of thousands of different genes.

III. DNA Cloning and Its Applications: A Summary

- Most methods for cloning pieces of DNA in laboratory share general features, such as the use of bacteria and their plasmids.
- **Plasmids** are small circular DNA molecules that replicate separately from the bacterial chromosome.
- Cloned genes are used for making copies of a particular gene and producing a protein product.
- Gene cloning is done using bacteria to make multiple copies of a gene.
- Foreign DNA is inserted into a plasmid, and the recombinant plasmid is inserted into a bacterial cell.
- Reproduction in the bacterial cell results in cloning of the plasmid including the foreign DNA.
- This results in the production of multiple copies of a single gene.

IV. Using Restriction Enzymes to Make Recombinant DNA

- Bacterial **restriction enzymes** cut DNA molecules at specific DNA sequences called restriction sites.
- A restriction enzyme usually makes many cuts, yielding restriction fragments.
- The most useful restriction enzymes cut DNA in a staggered way, producing fragments with "sticky ends".
 - Sticky ends can bind with complementary sticky ends of other fragments.
- DNA ligase is an enzyme that seals the bonds between restriction fragments.

Process of Using Restriction Enzymes

1. Restriction enzyme cuts sugar-phosphate backbones
2. DNA fragment added from another molecule cut by same enzyme, base pairing occurs
3. DNA ligase seals strands

V. Gel Electrophoresis and Southern Blotting

- One indirect method of separating and comparing genes in gel electrophoresis

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