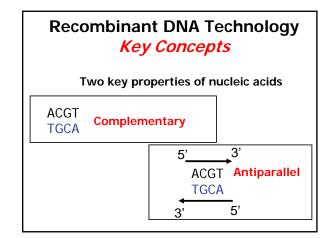
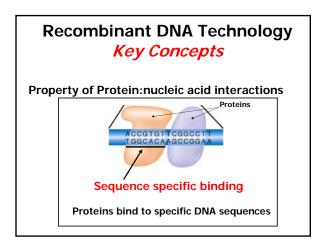
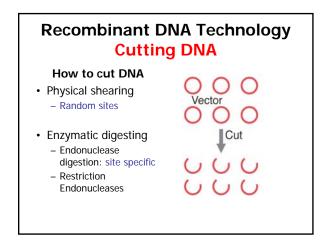
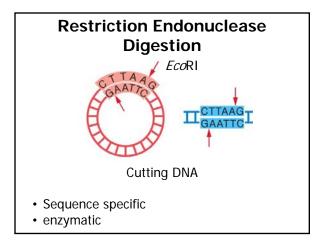
Recombinant DNA Technology Key Methods

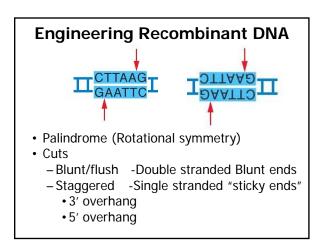
- 1. Cutting DNA
- 2. Pasting DNA
- 3. Engineering Recombinant DNA
- 4. Making DNA from mRNA
- 5. Copying DNA
- 6. Determining nucleic acid length
- 7. Sequencing DNA
- 8. Probing to identify a gene of interest

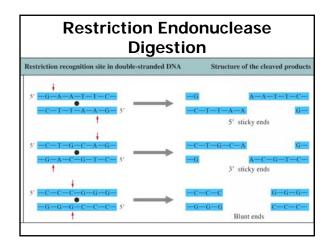


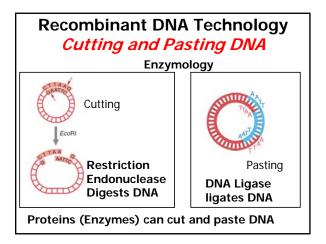


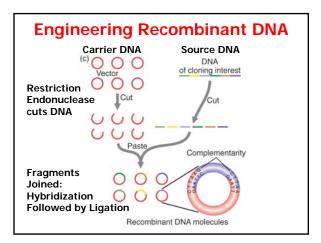








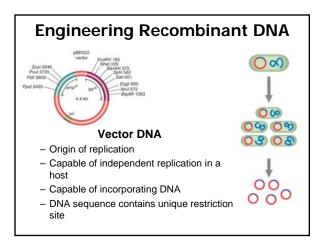


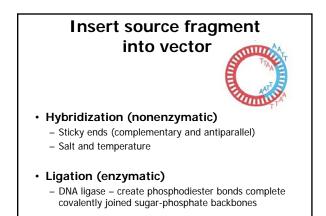


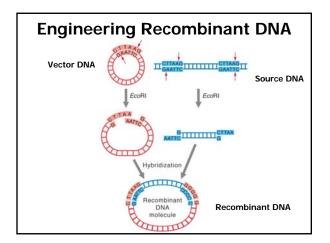


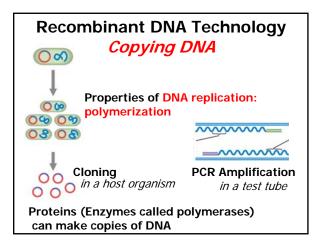
Three Steps

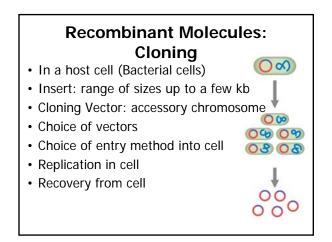
- 1. Cut source and vector DNA
 - Restriction Endonuclease Digestion
- 2. Insert source fragment into vector – Hybridization/Ligation
- 3. Put recombinant vector into host - Transformation

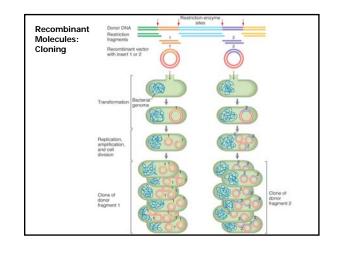


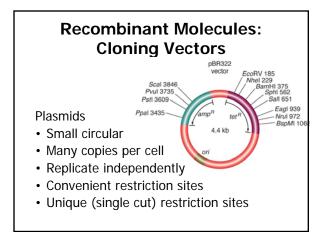


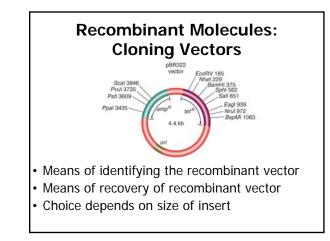












Vectors

Bacteriophage vectors

- Single stranded
- Double stranded
- Size of insert limited
- Dispensible sequence can be replaced with insert sequence
- Headful packaging limits insert size

