

Teacher Guide DNA Scissors: Introduction to Restriction Enzymes

Check for Understanding 1:

1. What type of molecule is an enzyme? Protein
2. What kind of enzymes make genetic engineering possible? Restriction enzymes
3. What is the function of these enzymes? DNA scissors (cut the DNA molecule in a specific place)
4. What is a restriction site? The site (DNA sequence) recognized by the enzyme where it cuts
5. What would be the "bottom" of the following DNA palindrome?
5' CAATTG 3'
3' GGTAA C 5'

Check for Understanding 2:

6. What is a "sticky end"? Single stranded overhang left by some restriction enzymes
7. Which of the enzymes above would leave sticky ends? EcoRI, BamHI, HindIII, KpnI
8. Which of the enzymes above would leave blunt ends? SmaI, XbaI
9. What is recombinant DNA? DNA made from combining DNA from 2 diff. sources
10. What is one use of recombinant DNA? Make a desired protein (vaccine)
11. Would DNA with sticky ends or blunt ends be used to make recombinant DNA? Explain why.
either works fine but usually sticky ends

EXERCISE 1:

Questions Part 1:

- A. Are the EcoRI ends sticky or blunt? Sticky
- A. Are there any hydrogen bonds between the cut sites in SmaI? No
- B. Are the SmaI ends sticky or blunt? Blunt
- A. Are the HindIII ends sticky or blunt? Sticky

Questions Part 2:

- 2.1. Write down the base sequence of the two tails and label them "EcoRI" and "HindIII", label the 5' and 3' ends.

5' AGCTT 3' HindIII

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