

Teacher Guide DNA Scissors: Introduction to Restriction Enzymes

Check for Understanding I:

1. What type of molecule is an enzyme? Process

- 2. What kind of enzymes make genetic engineering possible? Restriction enzymes
- 3. What is the function of these enzymes? DNA scissors touts the DNA molecule in a specific place
- 4. What is a restriction site? The site (EPNA sequence) recognized by the enzyme where it cuts
 - What would be the "bottom" of the following DNA palindrome?
 CAATTG 3"

STATE AAC 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, BarnHI, Hindli, Hind
- 8. Which of the enzymes above would leave blunt ends? Soul, Alul
- 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 (varies)
- 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 Ouestions Part 1:

- A. Are the EcoRI ends sticky or blunt? Sticky
- A. Are there any hydrogen bonds between the cut sites in Smal? No.
- B. Are the Small 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" AGCT3" Hand III.

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ML Morrison

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