

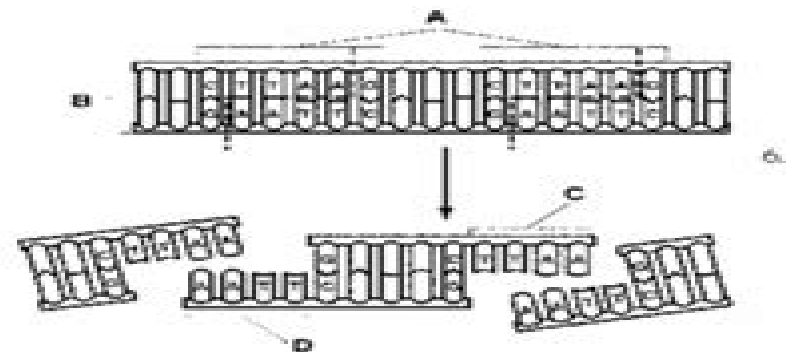
Name: _____

Genetic Engineering – Practice what you know

1. In which 2 ways can we "change" the genome of an organism? _____ We can delete or add genes to the genome of an organism. _____
2. What is a **transgenic** organism? _____ An organism with a gene from a different species. _____
3. What is a **clone**? _____ Genetically identical organism. _____

Tools : Cutting the DNA

4. What is a **restriction enzyme**? _____ An enzyme that cuts DNA at specific locations. _____
5. What does this figure to the right show?
 - a. gel electrophoresis
 - b. DNA sequencing
 - c. a restriction enzyme producing a DNA fragment
 - d. polymerase chain reaction



Between which nucleotides is the DNA cut?

- a. adenine and thymine
- b. cytosine and guanine
- c. thymine and cytosine
- d. adenine and guanine

----This is the cutting pattern of 2 restriction enzymes:----

Eco R1
GAATTC
CTTAAG

Sma 1
CCCGGG
GGGCCC
(Sma I makes both overhangs)

6. Cut the following piece of DNA using the restriction enzyme Eco R1.

GGCCGGGGCATG|AATTCGCGTATCGTG|AATTCTGGGCCCATCAG|AATTCAA
CGGGCCCCGTACTTAA|GCGCATAGCACTTAA|GACCCGGGTAGTCTTAA|GTT

7. How many fragments of DNA do you get? _____ 4 _____

15 Genetic Engineering Answer Key

Padhraic Smyth



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