

SELF-TEST CORNER OF MOLBIOL **UNDERGRADUATE: DESIGNING OWN TESTS Part 4.**

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DNA SEQUENCING TECHNIQUES

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Biotechnology 13-10

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DNA sequencing methods

1. What was the first eukaryotic chromosome to be successfully sequenced?

- a. Yeast chromosome
- b. Amoeba chromosome
- c. Arabidopsis chromosome
- d. E.coli
- e. None of these

2. Another name of a Maxam-Gilbert sequencing?

- a. Enzymatic sequencing
- b. Chemical sequencing
- c. Protein sequencing
- d. All of them
- e. None of them

3. Another term for a Sanger sequencing?

a. Parallel sequencing

b. Chain-termination sequencing

c. Shotgun sequencing

d. a+b

e. None of them

4. What should cause the termination of chain elongation in a Sanger method?

a. Incorporation of a regular DNA nucleotide

b. Incorporation of a dideoxynucleotide

c. Denaturation of the double-stranded test fragments

d. DNA polymerase encountering the stop codon

e. Primer dissociation from the strands in result of denaturation

5. Maxam-Gilbert sequencing requires at one of 5' ends of DNA

a. Radioactive labeling

b. Restriction enzyme

c. Initial PCR reaction

d. All of them taken together

e. None of them

6. Maxam and Gilbert used ... to visualize the fragments.

a. Chromatography

b. Autoradiography

- c. Southern blotting
- d. Northern blotting
- e. Western blotting

7. What is the specific feature of a Maxam – Gilbert technique?

- a. It is not suitable for long chains
- b. It requires specific enzymes
- c. It requires specific reagents
- d. a+b

e. a+c

8. Which of the following methods were used for the “First Human Genome Project”?

a. Maxam-Gilbert sequencing

b. Sanger sequencing

c. Fiers sequencing

d. a+b

e. None of them

9. In Maxam-Gilbert method ...

a. DNA to be sequenced is used as a template for synthesizing cDNA

b. cDNA synthesis is interrupted by dideoxynucleotides

c. DNA molecule to be sequenced is enzymatically cleaved at specific sites

d. DNA molecule to be sequenced is chemically cleaved at specific sites

e. None of them

10. In Sanger's method ...

- a. DNA to be sequenced is used as a template for synthesizing cDNA
- b. cDNA nucleotides is interrupted by using dideoxynucleotides
- c. Labelled deoxynucleoside triphosphates are used as substrates
- d. All of the above
- e. None of the above

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