

by cleave the foreign DNA. Bacteria protects its own DNA by adding CH₃ groups.

8. What do you mean by palindromic sequence is referred to as a restriction site is generally palindromic, which means that the sequence in both DNA strands at this site read same 5' to 3' direction.

9. Who discovered restriction enzyme?
By Werner Arber, Hamilton O. Smith and Daniel Nathans.

10. Explain the name EcoRI.

EcoRI → Escherichia coli

11. Write the restriction site of EcoRI.

EcoRI → Escherichia coli

5' - G[↓] - AATTC - 3'

3' - CTTA - A[↑]G - 5'

12. Write an example of enzyme which results in blunt and sticky end separately.

Blunt ↓

5' - AGCT - 3' (AluI)

3' - TCGA - 5'

Sticky ↓

5' - GAATTC - 3' (EcoRI)

3' - CTTAAG - 5'