

DNA Sequencing Maxam & Gilbert

Introduction:

- DNA can be resequenced by specific chemical cleavage.
- Allan Maxam and Walter Gilbert published a DNA sequencing method in 1977 based on chemical modification of DNA.
- This method's use of radioactive labeling, diagnostic or forensic research.
- Purification of the DNA fragment.
- Four nucleotide bases: - G, A+G, C, C+T.
(A, G, C, T)
- Determine the nucleic acid sequence;
- Make up the DNA molecule.
- Bases in a strand of DNA.
- Determining the precise order of nucleotide in a piece of DNA.

There are two methods :-

- (i) Maxam Gilbert method
- (ii) Sanger dideoxy method.