

Backbone is provided by sugar and phosphates.
Two polynucleotide chains are held together by
H-Bonds. Always purine base pairs with pyrimidine.
Strands run anti parallel. direction ✓

★ Relevance of DNA structure:

- ① New realm of molecular biology
- ② Helps in understanding how genes operate, cell division
- ③ Biotechnology and genetic engineering
- ④ Protein synthesis

DNA can be double stranded or single stranded

On the basis of nature of nucleotide sequence —

- ① Palindromic DNA
- ② Repetitive DNA or Satellite DNA (absent in Prokaryotes)

DNA REPLICATION

✓ Parental DNA synthesizing identical daughter duplex