

functional) unit of chromatin, which contains nine histone proteins.

(3) Distance between two conjugative base pairs is 0.34nm

(4) The length of the DNA in a typical mammalian cell will be $6.6 \times 10^9 \text{ bp} \times 0.34 \times 10^{-9} \text{ /bp}$, it comes about 2.2 meters.

(5) The length of DNA is more than the dimension of a typical nucleus (10^{-6}m)

DNA Replication

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(1) DNA is the only molecule capable of self duplication so it is termed as a living molecule.

(2) All living beings have the capacity to reproduce because of DNA.

(3) DNA replication takes place in S-phase of the cell cycle. At the time of cell division, it divides in equal parts in the daughter cells.

(4) Delbruck suggested three methods of DNA replication

