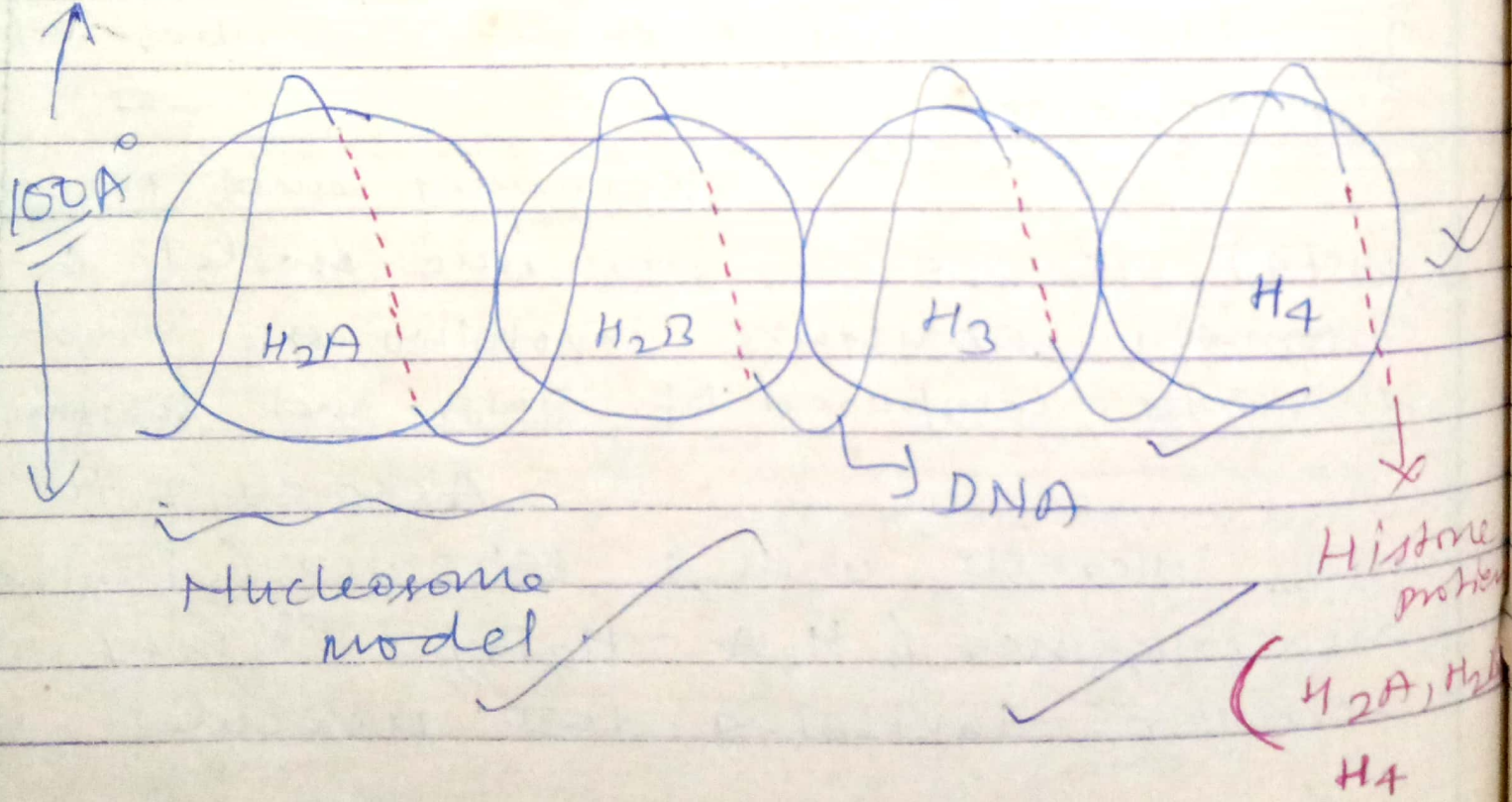


Nucleosome model of DNA

① 28/07/2020

The term Nucleosome was given by P. Dutta (1975). In order to accommodate the Nucleosome model for DNA, F. H. C. Crick and

A. Kuzg (1975) proposed Kinky helix for DNA

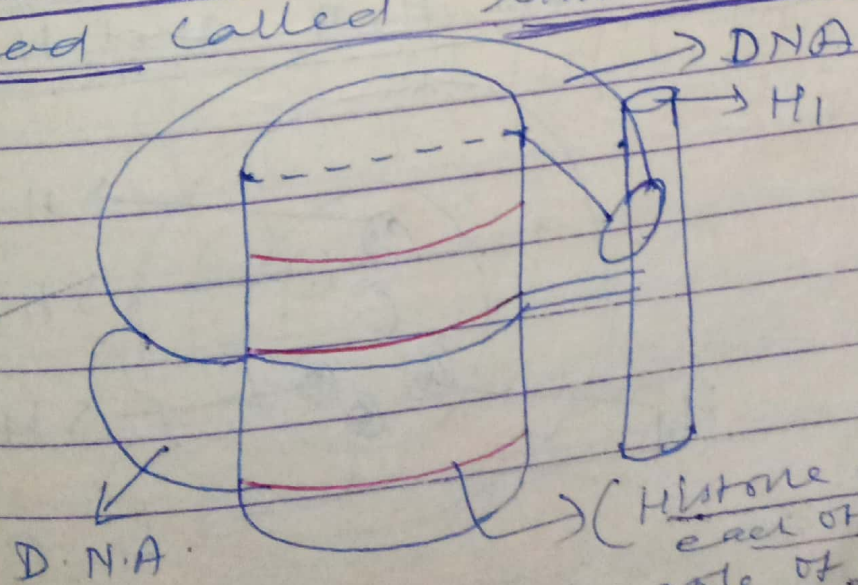


② Nucleosome (11 nm in diameter) = 200 -
base pair + 2 molecules each of H₂A,
H₂B, and H₃ and H₄.

It has been shown -

that a Nucleosome consist of a chain -
of DNA having 200 base pairs (bp) making
1 3/4 turns and colled around the octamer
each of H₂A, H₂B, H₃, and H₄ thus
it makes string (D.N.A chain) on beads -
rather than beads on strings. one molecule
of H₁ holds the two ends of DNA in a -
Nucleosome and is not a integral part of
a Nucleosome. It also wraps of

core particle :-
the reduced form of Nucleosome is called
core particle. Adjacent core particles are
joined with each other through DNA
thread called linker DNA



(The core particle showing role of H₁ Histone two molecules each of H₂A, H₂B, H₃ and H₄ Histone which is attached at the axis of coil of DNA)