Organization of Eukaryotic chromosome

Introduction:-

- They are thread like structures located inside the nucleus.
- The term chromosome was first used WALDEYER (1888).
- Structure of Eukaryotic chromosome shows the following parts:- MATRIX, CHROMONEMATA, SATELLITE AND TELOMERE.
- Eukaryotic chromosomes are made up of a DNA + Protein.
- A large number of models are proposed to explain the chromosome structure.
- DNA stored in the nucleus of the cell.
- The nucleosome consists of about 200 bp around a histone octamer.
- The different models explain the molecular anatomy of Eukaryotic chromosomes.

(A) Simple multistrand model.
(B) RIS Multistrand model.
(C) Centrepede model
(D) The Freese - Taylor's model.
(E) Du Praw Folded - fibre model.
(F) Coiled coil Model.
(G) Nucleosome Model of chromosome.

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