

Copy of a printed diagram referenced as "Hypothetical models of chromosome structure. DNA-histone fibers"

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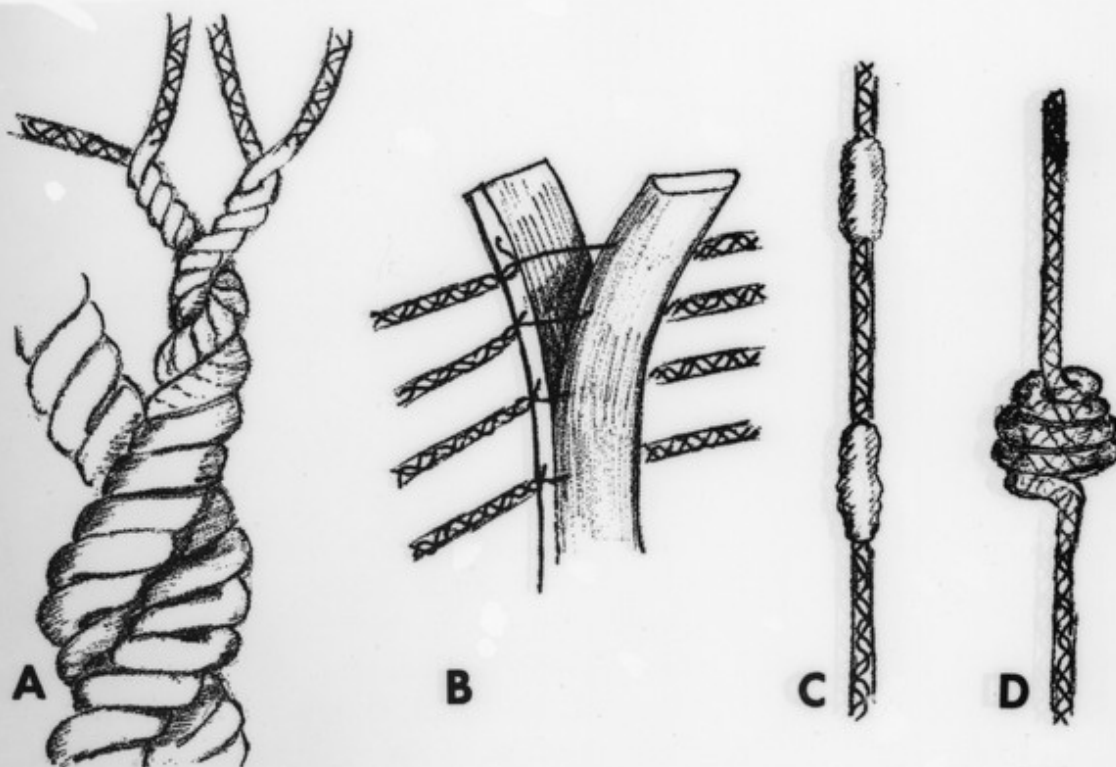


FIG. 1 Hypothetical models of chromosome structure. (A) Multistranded or "rope" hypothesis, showing a portion of the chromosome made up of 8 double helices of DNA histone. (After Steffensen, 1959.) (B) "Protein-backbone" hypothesis, showing a central ribbon of protein, to which DNA-histone fibers are attached laterally. An early stage is shown in the postulated separation of strands prior to chromosome replication. (After Taylor, 1957.) (C) Model showing alternation of DNA-histone fibers (here greatly abbreviated) and small protein molecules. (D) "Differential-coiling" hypothesis showing a single fiber of DNA histone coiled to form a chromomere.

tion values than the usual method.

The amount of DNA in interband regions is very small, close to the limits of detection by the azure A-Euigen method. Some faint Feulgen-positive bands are present in practically all